



 Load Safe



**LOAD BREAK & CHANGE-OVER SWITCHES**

## CONTENTS

|                                                    |    |
|----------------------------------------------------|----|
| SWITCHES ACCORDING TO IEC 60 947-3                 | 4  |
| LOAD BREAK SWITCHES 16-800 A - GENERAL INFORMATION | 5  |
| TECHNICAL DATA                                     | 6  |
|                                                    |    |
| LOAD BREAK SWITCHES, ROTARY (KU)                   |    |
| LOAD BREAK SWITCHES 16-40 A                        | 8  |
| LOAD BREAK SWITCHES 16-125A (N)                    | 10 |
| LOAD BREAK SWITCHES 100-160 A                      | 12 |
| LOAD BREAK SWITCHES 200-250A & 160A (P)            | 14 |
| LOAD BREAK SWITCHES 315-400 A                      | 16 |
| LOAD BREAK SWITCHES 630-800 A                      | 18 |
|                                                    |    |
| COMPACT LOAD BREAK SWITCHES, ROTARY (VKA)          |    |
| LOAD BREAK SWITCHES 200-250 A                      | 20 |
|                                                    |    |
| LOAD BREAK SWITCHES, TOGGLE (KUE & EVA)            |    |
| LOAD BREAK SWITCHES 16-125 A                       | 22 |
| LOAD BREAK SWITCHES 125-250 A                      | 24 |
|                                                    |    |
| DISCONNECT SWITCHES UL                             |    |
| DISCONNECT SWITCHES UL98 60-100 A                  | 26 |
| DISCONNECT SWITCHES UL 60947-4-1A 16-150 A         | 27 |
|                                                    |    |
| CHANGE-OVER SWITCHES                               |    |
| KU 16 - 80 A & 125 A (N)                           | 29 |
| KU 100 - 160 A                                     | 30 |
| KU 200 - 250 A & 160 A (P)                         | 31 |
| KU 315 - 400 A                                     | 32 |
| KU 630 - 800 A                                     | 33 |
|                                                    |    |
| DIMENSIONAL DRAWINGS                               |    |
| LOAD BREAK SWITCHES                                | 34 |
| CHANGE-OVER SWITCHES                               | 50 |
| ACCESSORIES                                        | 55 |
|                                                    |    |
| CONDITIONS OF SALE                                 | 68 |

## SWITCHES WITHOUT COMPROMISES.



Katko is a Finnish family business specialising in safety switches, load break switches and fused switches with more than 70 years of experience. Not all safety and load break switches on the market come from specialised manufacturers by any means, and that is precisely why we are so proud of ours. We design and manufacture every product ourselves in our own factories. The challenging Finnish climate creates a basis for developing switches that work in all conditions across the globe. Switches without compromises. This is what we at Katko think, as did the generations before us.

## ROBOTICS AND HANDWORK. THE BEST OF BOTH WORLDS.

We manufacture all of our safety switches, load break switches, fused switches and terminal blocks in our own production plants in Finland and Poland. A high level of automation is part of Katko's DNA that ensures a consistent quality level in our products. Katko's flexible and adaptive production philosophy even facilitates the manufacture of smaller batches in a competitive manner. Furthermore, we can provide our customers with more tailored products, and we are ready to do so. This is where Katko's motivated and professional staff come in. We employ approximately 120 people, two thirds of whom are in Finland.

Taking care of people and the environment are among the most important values of our family business. Our environmental thinking is guided by factors such as efficient raw material use, energy-efficient production and the quality and life-cycle of the end product. All of the materials used in our production processes are 100% recyclable. Sales office was opened in Dubai in 2007. Today, Katko products are sold in more than 60 countries on all continents.



## SWITCHES ACCORDING TO IEC 60 947-3

### SWITCH

A mechanical switching device capable of making, carrying and breaking currents under normal circuit conditions which may include specified operating overload conditions and also carrying for a specified time currents under specified abnormal circuit conditions such as those of short circuit.

Note: A switch may be capable of making, but not breaking, short-circuit currents.

### DISCONNECTOR

A mechanical switching device which, in the open position, complies with the requirements specified for the isolating function.

Disconnecter: (working definition) device without on-load making and breaking capacity.

### SWITCH DISCONNECTOR / LOAD BREAK SWITCH

A switch capable of making, carrying and breaking currents under normal circuit conditions and which, in the open position, complies with the isolating requirements specified for a disconnector.

### UTILIZATION CATEGORY

| Utilization category | Use / Application                                                                    |
|----------------------|--------------------------------------------------------------------------------------|
| AC-20A               | Connecting and disconnecting under no-load.                                          |
| AC-21A               | Switching of resistive loads including moderate overloads                            |
| AC-22A               | Switching of mixed loads, inductive and resistive loads including moderate overloads |
| AC-23A               | Switching of motor loads or other highly inductive loads                             |
| AC-23Ae              | Switching of motor loads with higher locked rotor currents *                         |

\* Requirements given by asynchronous motors of design NE and HE, according to IEC 60034-12, having extended/higher locked rotor apparent power and current than design N and H respectively, to achieve a higher efficiency class according to the requirements of IEC 60034-30-1.

### PROTECTION AGAINST OVERVOLTAGE

$U_{imp}$  (Impulse withstand voltage) defines the device's use in abnormal network conditions with overvoltage due to lightning on overhead wires etc.

This characteristic also defines the device's dielectric quality. Overvoltage protection is ensured by choosing the equipment according to  $U_{imp}$ . The 4 impulse withstand categories of use at 400V/ 690V (IEC 60 364-4-44) are:

| Category | $U_{imp}$ | Applications                                     |
|----------|-----------|--------------------------------------------------|
| 1        | 2,5 kV    | pecially protected equipment                     |
| 2        | 4 kV      | Portable tools, motors, etc.                     |
| 3        | 6 kV      | Equipment placed in distribution networks        |
| 4        | 8 kV      | Equipment placed at the head of an installation. |

The  $U_{imp}$  rating for most of the Katko switches is 8kV.

### INSTALLATION ENVIRONMENT TEMPERATURE

To assure the best of operation of KATKO switches the ambient air temperature of installation environment should be in the range of -40°C to + 60°C.

When the ambient temperatures exceed +40°C, the maximum load of the switch may have to be derated. Please contact KATKO for assistance.

### CONFORMITY TO STANDARDS

Katko switches are designed to comply with both national and international standards.

-Switches tested acc. to IEC 60 947  
 -AC-23A / 690V ratings (KU 250, 400 & 800A AC-23A 1000V)  
 -50 kA R.M.S values  
 -CB certificates  
 -UL, cUL listed (UL 60947-4-1A)

## LOAD BREAK SWITCHES 16-800 A ROTARY AND TOGGLE SWITCHES

### General information:

The professional range of KATKO Load Break Switches consists of rotary and toggle switches. Types KU and VKA are rotary switches while KUE and EVA are toggle switches. The KATKO range is available from 16 A up to 800 A. Also 1000-3150 A is available on request.

- KU 16 - 800 A
- KUE 16 - 125 A
- VKA 200 - 250 A
- EVA 125 - 250 A

Rotary switches are available as 3-pole, 4-pole, 6-pole and 8-pole. Katko switches are rated up to 690V (KU 800, 400 and 250 A switches are rated up to 1000V). Katko Load Break Switches comply with and are tested according to:

### Standards:

IEC 60 947-3

IEC 60 269-2

UL 60947-4-1A (16-150 A) (please refer to UL section for exact offering)

### Approvals and certificates:

CCA

CB

Lloyd's Register (KU 16 - 160 A)

VDE (KU 16 - 40 A & 200 - 800 A)

### Manufacturing and quality processes:

ISO 9001

ISO 14001

### General installation and life-cycle manual

Katko's general installation manual is available on Katko's website at [www.katko.com/terms-conditions](http://www.katko.com/terms-conditions).

This manual contains important information about installation and maintenance of Katko's products and must be read by any user of Katko products.

## TECHNICAL DATA

### LOAD BREAK SWITCHES

| LOAD BREAK SWITCHES                                                                   |          | KU ROTARY LBS |        |        |         |         |         |         |         |          |          |       |       |          |        |        |         |         |       |       |
|---------------------------------------------------------------------------------------|----------|---------------|--------|--------|---------|---------|---------|---------|---------|----------|----------|-------|-------|----------|--------|--------|---------|---------|-------|-------|
|                                                                                       |          | 16A           | 25A    | 40A    | 16A (N) | 25A (N) | 40A (N) | 63A (N) | 80A (N) | 100A (N) | 125A (N) | 125A  | 160A  | 160A (P) | 200A   | 250A   | 315A    | 400A    | 630A  | 800A  |
| Rated insulation voltage, U <sub>i</sub> (V)                                          |          | 800           | 800    | 800    | 800     | 800     | 800     | 800     | 800     | 800      | 800      | 800   | 800   | 1000     | 1000   | 1000   | 1000    | 1000    | 1000  | 1000  |
| Rated thermal current, I <sub>m</sub> (A)                                             |          | 25            | 40     | 63     | 25      | 40      | 63      | 80      | 100     | 125      | 125      | 160   | 200   | 200      | 250    | 315    | 315     | 400     | 630   | 800   |
| Nominal values with cable size (mm²)                                                  |          | 4             | 10     | 16     | 4       | 10      | 16      | 25      | 35      | 70       | 50       | 70    | 95    | 95       | 95     | 120    | 185     | 240     | 2x185 | 2x240 |
| Rated operational current, I <sub>e</sub> (A)                                         |          |               |        |        |         |         |         |         |         |          |          |       |       |          |        |        |         |         |       |       |
| AC-21A                                                                                | 400/415V | 16            | 25     | 40     | 25      | 40      | 63      | 80      | 100     | 125      | 125      | 160   | 160   | 160      | 200    | 250    | 315     | 400     | 630   | 800   |
|                                                                                       | 500V     | 16            | 25     | 40     | 25      | 40      | 63      | 80      | 100     | 125      | 125      | 160   | 160   | 160      | 200    | 250    | 315     | 400     | 630   | 800   |
|                                                                                       | 690V     | 16            | 25     | 40     | 25      | 40      | 63      | 80      | 100     | 125      | 125      | 160   | 160   | 160      | 200    | 250    | 315     | 400     | 630   | 800   |
| AC-22A                                                                                | 400/415V | 16            | 25     | 40     | 16      | 25      | 40      | 63      | 80      | 100      | 125      | 125   | 160   | 160      | 200    | 250    | 315     | 400     | 630   | 800   |
|                                                                                       | 500V     | 16            | 25     | 40     | 16      | 25      | 40      | 63      | 80      | 100      | 80       | 125   | 160   | 160      | 200    | 250    | 315     | 400     | 630   | 800   |
|                                                                                       | 690V     | 16            | 25     | 40     | 16      | 25      | 40      | 63      | 80      | 100      | 80       | 125   | 160   | 160      | 200    | 250    | 315     | 400     | 630   | 800   |
| AC-23A                                                                                | 400/415V | 16            | 25     | 40     | 16      | 25      | 40      | 40      | 63      | 100      | 63       | 125   | 160   | 160      | 200    | 250    | 315     | 400     | 630   | 800   |
|                                                                                       | 500V     | 16            | 25     | 25     | 16      | 25      | 32      | 40      | 40      | 63       | 40       | 80    | 100   | 160      | 200    | 250    | 315     | 400     | 630   | 800   |
|                                                                                       | 690V     | 16            | 25     | 25     | 16      | 25      | 32      | 40      | 40      | 63       | 40       | 80    | 100   | 160      | 200    | 250    | 315     | 400     | 630   | 800   |
|                                                                                       | 1000V    | -             | -      | -      | -       | -       | -       | -       | -       | -        | -        | -     | -     | -        | -      | 135    | -       | 200     | -     | 400   |
| Rated operational power for 3-phase (1500 r.p.m.) squirrel cage induction motors (kW) |          |               |        |        |         |         |         |         |         |          |          |       |       |          |        |        |         |         |       |       |
| AC-23A                                                                                | 400/415V | 7.5           | 11     | 22     | 7.5     | 11      | 22      | 22      | 30      | 55       | 30       | 55    | 90    | 90       | 110    | 132    | 160     | 200     | 355   | 400   |
|                                                                                       | 500V     | 7.5           | 15     | 15     | 7.5     | 15      | 22      | 30      | 30      | 37       | 30       | 55    | 55    | 110      | 132    | 160    | 200     | 250     | 400   | 560   |
|                                                                                       | 690V     | 11            | 22     | 22     | 11      | 22      | 30      | 37      | 37      | 55       | 37       | 75    | 90    | 132      | 160    | 250    | 315     | 355     | 630   | 800   |
| Rated fused short circuit current                                                     |          |               |        |        |         |         |         |         |         |          |          |       |       |          |        |        |         |         |       |       |
| Back-up fuse (A)                                                                      |          | 25            | 25     | 40     | 40      | 40      | 40      | 80      | 80      | 160      | 125      | 160   | 160   | 250      | 250    | 250    | 400     | 400     | 630   | 800   |
| R.M.S. value, I <sub>k</sub> (kA)                                                     |          | 50            | 50     | 25     | 50      | 50      | 50      | 50      | 50      | 65       | 30       | 65    | 65    | 100***   | 100*** | 100*** | 100     | 100     | 100   | 100   |
| Peak value (kA)                                                                       |          | 3.8           | 3.8    | 4.5    | 6.0     | 6.0     | 6.0     | 8.7     | 8.7     | 15       | 10       | 15    | 15    | 26       | 26     | 26     | 42      | 42      | 76    | 76    |
| Impulse withstand voltage, U <sub>imp</sub> (kV)                                      |          | 8             | 8      | 8      | 8       | 8       | 8       | 8       | 8       | 8        | 8        | 8     | 8     | 12       | 12     | 12     | 12      | 12      | 12    | 12    |
| Rated short circuit making capacity, I <sub>cm</sub> (kA)                             |          |               |        |        |         |         |         |         |         |          |          |       |       |          |        |        |         |         |       |       |
|                                                                                       | 690V     | 1             | 1      | 1      | 2.5     | 2.5     | 2.5     | 3.1**   | 3.1**   | 8        | 3.1**    | 8     | 8     | 14       | 14     | 14     | 27,5    | 27,5    | 60    | 60    |
| Rated short time withstand current (1 s), I <sub>cw</sub> (kA)                        |          |               |        |        |         |         |         |         |         |          |          |       |       |          |        |        |         |         |       |       |
|                                                                                       | 690V     | 0,7           | 0,7    | 0,7    | 1.7     | 1.7     | 1.7     | 2.0     | 2.0     | 5        | 2.0      | 5     | 5     | 8***     | 8***   | 8***   | 13.5*** | 13.5*** | 28*** | 28*** |
| Rated breaking capacity, I <sub>cn</sub> (A)                                          |          |               |        |        |         |         |         |         |         |          |          |       |       |          |        |        |         |         |       |       |
| AC-23A                                                                                | 400/415V | 128           | 200    | 320    | 128     | 200     | 320     | 320     | 504     | 800      | 504      | 1000  | 1280  | 1280     | 1600   | 2000   | 2520    | 3200    | 5040  | 6400  |
|                                                                                       | 500V     | 128           | 200    | 200    | 128     | 200     | 256     | 320     | 320     | 504      | 320      | 640   | 800   | 1280     | 1600   | 2000   | 2520    | 3200    | 5040  | 6400  |
|                                                                                       | 690V     | 128           | 200    | 200    | 128     | 200     | 256     | 320     | 320     | 504      | 320      | 640   | 800   | 1280     | 1600   | 2000   | 2520    | 3200    | 5040  | 6400  |
| Electrical endurance (number of operations)                                           |          | 3000          | 3000   | 3000   | 3000    | 3000    | 3000    | 3000    | 3000    | 2000     | 3000     | 2000  | 2000  | 2000     | 2000   | 2000   | 2000    | 2000    | 2000  | 2000  |
| Mechanical endurance (number of operations)                                           |          | 50000         | 50000  | 50000  | 50000   | 50000   | 50000   | 50000   | 50000   | 16000    | 50000    | 16000 | 16000 | 16000    | 16000  | 16000  | 10000   | 10000   | 10000 | 10000 |
| Terminals / Bolt size Cu (mm²)                                                        |          | 1.5-16        | 1.5-16 | 1.5-16 | 1.5-16  | 1.5-16  | 1.5-16  | 2.5-35  | 2.5-35  | 6-70     | 2.5-35   | 6-70  | 6-70  | M8       | M8     | M8     | M10     | M10     | M12   | M12   |
| Max terminal torque (Nm)                                                              |          | 1.8           | 1.8    | 1.8    | 1.8     | 1.8     | 1.8     | 2.5     | 2.5     | 6        | 2.5      | 6     | 6     | 15-22    | 15-22  | 15-22  | 30-44   | 30-44   | 50-75 | 50-75 |
| * 415 V                                                                               |          |               |        |        |         |         |         |         |         |          |          |       |       |          |        |        |         |         |       |       |
| ** 2.5kA when CCC marked                                                              |          |               |        |        |         |         |         |         |         |          |          |       |       |          |        |        |         |         |       |       |
| *** 1000V                                                                             |          |               |        |        |         |         |         |         |         |          |          |       |       |          |        |        |         |         |       |       |
| **** 50kA with 315A fuse                                                              |          |               |        |        |         |         |         |         |         |          |          |       |       |          |        |        |         |         |       |       |



## TECHNICAL DATA

### LOAD BREAK SWITCHES

| KUE TOGGLE LBS |        |        |        |        |        | EVA TOGGLE LBS |       |       |       | VKA ROTARY LBS |       | LOAD BREAK SWITCHES                                                                   |        |
|----------------|--------|--------|--------|--------|--------|----------------|-------|-------|-------|----------------|-------|---------------------------------------------------------------------------------------|--------|
| 16A            | 25A    | 40A    | 63A    | 80A    | 125A   | 125A           | 160A  | 200A  | 250A  | 200A           | 250A  |                                                                                       |        |
| 800            | 800    | 800    | 800    | 800    | 690    | 690            | 690   | 690   | 690   | 1000           | 1000  | Rated insulation voltage, U <sub>i</sub> (V)                                          |        |
| 25             | 40     | 63     | 80     | 100    | 125    | 160            | 200   | 200   | 250   | 200            | 250   | Rated thermal current, I <sub>m</sub> (A)                                             |        |
| 4              | 10     | 16     | 25     | 35     | 50     | 70             | 95    | 95    | 120   | 95             | 120   | Nominal values with cable size (mm <sup>2</sup> )                                     |        |
|                |        |        |        |        |        |                |       |       |       |                |       | Rated operational current, I <sub>e</sub> (A)                                         |        |
| 25             | 40     | 63     | 80     | 100    | 125    | 160            | 200   | 200   | 250   | 200            | 250   | 400/415V                                                                              | AC-21A |
| 25             | 40     | 63     | 80     | 100    | 125    | -              | -     | -     | -     | 200            | 250   | 500V                                                                                  |        |
| 25             | 40     | 63     | 80     | 100    | 125    | -              | -     | -     | -     | 200            | 250   | 690V                                                                                  |        |
| 16             | 25     | 40     | 63     | 80     | 125    | 125            | 160   | 200   | 250   | 200            | 250   | 400/415V                                                                              | AC-22A |
| 16             | 25     | 40     | 63     | 80     | 80     | -              | -     | -     | -     | -              | -     | 500V                                                                                  |        |
| 16             | 25     | 40     | 63     | 80     | 80     | -              | -     | -     | -     | -              | -     | 690V                                                                                  |        |
| 16             | 25     | 25     | 40     | 63     | 63     | 80             | 125   | 160   | 200   | 200            | 250   | 400/415V                                                                              | AC-23A |
| 16             | 20     | 20     | 32     | 32     | 32     | -              | -     | -     | -     | -              | -     | 500V                                                                                  |        |
| 16             | 20     | 20     | 32     | 32     | 32     | -              | -     | -     | -     | -              | -     | 690V                                                                                  |        |
| -              | -      | -      | -      | -      | -      | -              | -     | -     | -     | -              | -     | 1000V                                                                                 |        |
|                |        |        |        |        |        |                |       |       |       |                |       | Rated operational power for 3-phase (1500 r.p.m.) squirrel cage induction motors (kW) |        |
| 7.5            | 11     | 11     | 22     | 30     | 30     | 45             | 75    | 75    | 90    | 110            | 132   | 400/415V                                                                              | AC-23A |
| 7.5            | 11     | 11     | 22     | 22     | 22     | 55             | 75    | -     | -     | -              | -     | 500V                                                                                  |        |
| 11             | 15     | 15     | 30     | 30     | 30     | 55             | 90    | -     | -     | -              | -     | 690V                                                                                  |        |
|                |        |        |        |        |        |                |       |       |       |                |       | Rated fused short circuit current                                                     |        |
| 63             | 63     | 63     | 80     | 80     | 125    | 160            | 160   | 250   | 250   | 250            | 250   | Back-up fuse (A)                                                                      |        |
| 50             | 50     | 50     | 50     | 50     | 30     | 50             | 50    | 50    | 50    | 50             | 50    | R.M.S. value, I <sub>k</sub> (kA)                                                     |        |
| 7.2            | 7.2    | 7.2    | 8.7    | 8.7    | 10     | 15             | 15    | 21    | 21    | 22             | 22    | Peak value (kA)                                                                       |        |
| 8              | 8      | 8      | 8      | 8      | 8      | 8/6            | 8/6   | 6     | 6     | 8              | 8     | Impulse withstand voltage, U <sub>imp</sub> (kV)                                      |        |
|                |        |        |        |        |        |                |       |       |       |                |       | Rated short circuit making capacity, I <sub>cm</sub> (kA)                             |        |
| 2.5            | 2.5    | 2.5    | 3.1**  | 3.1**  | 3.3    | 5.1            | 5.1   | 11.4* | 11.4* | 11.4*          | 11.4* | 690V                                                                                  |        |
|                |        |        |        |        |        |                |       |       |       |                |       | Rated short time withstand current (1 s), I <sub>scw</sub> (kA)                       |        |
| 1.7            | 1.7    | 1.7    | 2.0    | 2.0    | 2.3    | 3.5            | 3.5   | 6.5*  | 6.5*  | 6.5*           | 6.5*  | 690V                                                                                  |        |
|                |        |        |        |        |        |                |       |       |       |                |       | Rated breaking capacity, I <sub>cn</sub> (A)                                          |        |
| 128            | 200    | 200    | 320    | 504    | 504    | 800            | 840   | 1600  | 1600  | 1600           | 2000  | 400/415V                                                                              | AC-23A |
| 128            | 160    | 160    | 256    | 256    | 320    | 640            | 1000  | -     | -     | -              | -     | 500V                                                                                  |        |
| 128            | 160    | 160    | 256    | 256    | 320    | 640            | 1000  | -     | -     | -              | -     | 690V                                                                                  |        |
| 3000           | 3000   | 3000   | 3000   | 3000   | 3000   | 2000           | 2000  | 2000  | 2000  | 2000           | 2000  | Electrical endurance (number of operations)                                           |        |
| 50000          | 50000  | 50000  | 50000  | 50000  | 50000  | 16000          | 16000 | 16000 | 16000 | 16000          | 16000 | Mechanical endurance (number of operations)                                           |        |
| 1.5-16         | 1.5-16 | 1.5-16 | 2.5-35 | 2.5-35 | 2.5-50 | 6-70           | 6-70  | M8    | M8    | M8             | M8    | Terminals / Bolt size Cu (mm <sup>2</sup> )                                           |        |
| 1.8            | 1.8    | 1.8    | 2.5    | 2.5    | 2.5    | 6              | 6     | 15-22 | 15-22 | 15-22          | 15-22 | Max terminal torque (Nm)                                                              |        |
|                |        |        |        |        |        |                |       |       |       |                |       | * 415 V                                                                               |        |
|                |        |        |        |        |        |                |       |       |       |                |       | ** 2.5kA when CCC marked                                                              |        |
|                |        |        |        |        |        |                |       |       |       |                |       | *** 1000V                                                                             |        |
|                |        |        |        |        |        |                |       |       |       |                |       | **** 50kA with 315A fuse                                                              |        |

## LOAD BREAK SWITCHES 16-40 A ROTARY SWITCHES LOADSAFE KU & RT SERIES



- DIN-rail or screw mounting
- 3-pole and 4-pole KU-switches as standard. 1 and 2-pole upon request
- Switch technology by means of silver contacts ensures safe and durable operation
- Compatible with handles LKX50 and LK10
- RT version is suitable for door mounting and will be delivered with 42 mm shaft and LKX50 (black) or LKX50YR (yellow/red) handle
- KU 3 and 4 pole will be delivered with black direct handle

**NEW 16-40 A LOAD BREAK SWITCH  
MANUFACTURED IN HELSINKI, FINLAND**

### SWITCHES

| Type              | EAN           | AC-23A 400/415 V (A) | AC-23A 400/415 V (kW) | AC-23A 690 V (A) | AC-23A 690 V (kW) | Switch Type       | Number of Poles |
|-------------------|---------------|----------------------|-----------------------|------------------|-------------------|-------------------|-----------------|
| KU 316            | 6419410257692 | 16                   | 7,5                   | 16               | 11                | Load Break Switch | 3               |
| KU 325            | 6419410257708 | 25                   | 11                    | 25               | 22                | Load Break Switch | 3               |
| KU 340            | 6419410257715 | 40                   | 22                    | 25               | 22                | Load Break Switch | 3               |
| KU 416            | 6419410257722 | 16                   | 7,5                   | 16               | 11                | Load Break Switch | 4               |
| KU 425            | 6419410257739 | 25                   | 11                    | 25               | 22                | Load Break Switch | 4               |
| KU 440            | 6419410257746 | 40                   | 22                    | 25               | 22                | Load Break Switch | 4               |
| RT 316 L42LKX50   | 6419410257753 | 16                   | 7,5                   | 16               | 11                | Door mounting LBS | 3               |
| RT 325 L42LKX50   | 6419410257760 | 25                   | 11                    | 25               | 22                | Door mounting LBS | 3               |
| RT 340 L42LKX50   | 6419410257777 | 40                   | 22                    | 25               | 22                | Door mounting LBS | 3               |
| RT 316 L42LKX50YR | 6419410257784 | 16                   | 7,5                   | 16               | 11                | Door mounting LBS | 3               |
| RT 325 L42LKX50YR | 6419410257791 | 25                   | 11                    | 25               | 22                | Door mounting LBS | 3               |
| RT 340 L42LKX50YR | 6419410257807 | 40                   | 22                    | 25               | 22                | Door mounting LBS | 3               |

### RELATED ACCESSORIES

| Type       | Accessory         | Description                   | For                | EAN           |
|------------|-------------------|-------------------------------|--------------------|---------------|
| LKX50      | Handle            | Black                         | All configurations | 6419410257852 |
| LKX50YR    | Handle            | Yellow/red                    | All configurations | 6419410257869 |
| L42        | Shaft             | Length 42 mm, aluminium       | RT                 | 6419410257876 |
| L42AD11    | Shaft             | Length 42 mm, aluminium       | KU                 | 6419410257883 |
| LK10       | Handle            | Black                         | All configurations | 6419410222539 |
| LK10YR     | Handle            | Yellow/red                    | All configurations | 6419410222553 |
| L100AD11   | Shaft             | Length 100 mm, aluminium      | All configurations | 6419410253106 |
| L200AD11   | Shaft             | Length 200 mm, aluminium      | All configurations | 6419410253113 |
| L300AD11   | Shaft             | Length 300 mm, aluminium      | All configurations | 6419410253120 |
| L100AD11VT | Shaft             | Length 100 mm, steel, slanted | All configurations | 6419410253168 |
| L200AD11VT | Shaft             | Length 200 mm, steel, slanted | All configurations | 6419410253175 |
| L300AD11VT | Shaft             | Length 300 mm, steel, slanted | All configurations | 6419410253182 |
| 1NO40KU    | Auxiliary contact | 1NO, screw connect            | KU                 | 6419410263914 |
| 1NC40KU    | Auxiliary contact | 1NC, screw connect            | KU                 | 6419410263921 |
| 1NO40QC    | Auxiliary contact | 1NO, quick connect            | KU & RT            | 6419410263891 |
| 1NC40QC    | Auxiliary contact | 1NC, quick connect            | KU & RT            | 6419410263907 |
| 1NO40RT    | Auxiliary contact | 1NO, screw connect            | RT                 | 6419410263938 |
| 1NC40RT    | Auxiliary contact | 1NC, screw connect            | RT                 | 6419410263945 |






**KU 4-POLE SWITCH**

## TECHNICAL DATA

| LOAD BREAK SWITCHES                                                                   |          | KU & RT ROTARY LBS |        |        |
|---------------------------------------------------------------------------------------|----------|--------------------|--------|--------|
|                                                                                       |          | 16A                | 25A    | 40A    |
| Rated insulation voltage, $U_i$ (V)                                                   |          | 800                | 800    | 800    |
| Rated thermal current, $I_{th}$ (A)                                                   |          | 25                 | 40     | 63     |
| Nominal values with cable size (mm <sup>2</sup> )                                     |          | 4                  | 10     | 16     |
| Rated operational current, $I_o$ (A)                                                  |          |                    |        |        |
| AC-21A                                                                                | 400/415V | 16                 | 25     | 40     |
|                                                                                       | 500V     | 16                 | 25     | 40     |
|                                                                                       | 690V     | 16                 | 25     | 40     |
| AC-22A                                                                                | 400/415V | 16                 | 25     | 40     |
|                                                                                       | 500V     | 16                 | 25     | 40     |
|                                                                                       | 690V     | 16                 | 25     | 40     |
| AC-23A                                                                                | 400/415V | 16                 | 25     | 40     |
|                                                                                       | 500V     | 16                 | 25     | 25     |
|                                                                                       | 690V     | 16                 | 25     | 25     |
|                                                                                       | 1000V    | -                  | -      | -      |
| Rated operational power for 3-phase (1500 r.p.m.) squirrel cage induction motors (kW) |          |                    |        |        |
| AC-23                                                                                 | 400/415V | 7.5                | 11     | 22     |
|                                                                                       | 500V     | 7.5                | 15     | 15     |
|                                                                                       | 690V     | 11                 | 22     | 22     |
| Rated fused short circuit current                                                     |          |                    |        |        |
| Back-up fuse (A)                                                                      |          | 25                 | 25     | 40     |
| R.M.S. value, $I_s$ (kA)                                                              |          | 50                 | 50     | 25     |
| Peak value (kA)                                                                       |          | 3.8                | 3.8    | 4.5    |
| Impulse withstand voltage, $U_{imp}$ (kV)                                             |          | 8                  | 8      | 8      |
| Rated short circuit making capacity, $I_{sm}$ (kA)                                    |          |                    |        |        |
| 690V                                                                                  |          | 1                  | 1      | 1      |
| Rated short time withstand current (1 s), $I_{st}$ (kA)                               |          |                    |        |        |
| 690V                                                                                  |          | 0,7                | 0,7    | 0,7    |
| Rated breaking capacity, $I_{bn}$ (A)                                                 |          |                    |        |        |
| AC-23                                                                                 | 400/415V | 128                | 200    | 320    |
|                                                                                       | 500V     | 128                | 200    | 200    |
|                                                                                       | 690V     | 128                | 200    | 200    |
| Electrical endurance (number of operations)                                           |          | 3000               | 3000   | 3000   |
| Mechanical endurance (number of operations)                                           |          | 50000              | 50000  | 50000  |
| Terminals / Bolt size Cu (mm <sup>2</sup> )                                           |          | 1.5-16             | 1.5-16 | 1.5-16 |
| Max terminal torque (Nm)                                                              |          | 1.8                | 1.8    | 1.8    |


**ASSEMBLY EXAMPLE  
RT 340 L42LKX50YR**
**LKX50YR HANDLE**

**L42 EXTENSION SHAFT**

**RT 340 3-POLE SWITCH**

## LOAD BREAK SWITCHES 16-80 A & 125A (N) ROTARY SWITCHES LOADSAFE KU SERIES



- DIN-rail mounting
- 3-pole and 4-pole KU-switches as standard. 2-pole upon request
- Switch technology by means of silver contacts ensures safe and durable operation
- Compatible with handles LK10 and LK11

### SWITCHES

| Type     | EAN           | E-number | AC-23A 400/415 V (A) | AC-23A 400/415 V (kW) | AC-23A 690 V (A) | AC-23A 690 V (kW) | Weight (kg) | Switch Type       | Number of Poles |
|----------|---------------|----------|----------------------|-----------------------|------------------|-------------------|-------------|-------------------|-----------------|
| KU 316N  | 6419410214305 | 3600721  | 16                   | 7,5                   | 16               | 11                | 0,19        | Load Break Switch | 3               |
| KU 325N  | 6419410214404 | 3600722  | 25                   | 11                    | 25               | 22                | 0,19        | Load Break Switch | 3               |
| KU 340N  | 6419410214503 | 3635101  | 32                   | 15                    | 32               | 30                | 0,19        | Load Break Switch | 3               |
| KU 363N  | 6419410214602 | 3600723  | 40                   | 22                    | 40               | 37                | 0,2         | Load Break Switch | 3               |
| KU 380N  | 6419410214701 | 3635104  | 63                   | 30                    | 40               | 37                | 0,2         | Load Break Switch | 3               |
| KU 3125N | 6419410214824 | 3635431  | 63                   | 30                    | 40               | 37                | 0,2         | Load Break Switch | 3               |
| KU 416N  | 6419410215005 | 3600731  | 16                   | 7,5                   | 16               | 11                | 0,23        | Load Break Switch | 4               |
| KU 425N  | 6419410215203 | 3600732  | 25                   | 11                    | 25               | 22                | 0,23        | Load Break Switch | 4               |
| KU 440N  | 6419410215500 | 3635102  | 32                   | 15                    | 32               | 30                | 0,23        | Load Break Switch | 4               |
| KU 463N  | 6419410215906 | 3600733  | 40                   | 22                    | 40               | 37                | 0,25        | Load Break Switch | 4               |
| KU 480N  | 6419410216002 | 3635105  | 63                   | 30                    | 40               | 37                | 0,25        | Load Break Switch | 4               |
| KU 4125N | 6419410216125 | 3635432  | 63                   | 30                    | 40               | 37                | 0,25        | Load Break Switch | 4               |

### RELATED ACCESSORIES

| Type          | Accessory         | Description                                 | For               | EAN           | E-number |
|---------------|-------------------|---------------------------------------------|-------------------|---------------|----------|
| LK10          | Handle            | Black                                       | 3, 4, 6 or 8-pole | 6419410222539 | 3600934  |
| LK10YR        | Handle            | Yellow/red                                  | 3, 4, 6 or 8-pole | 6419410222553 | 3600935  |
| LK11          | Handle            | Black                                       | 3, 4, 6 or 8-pole | 6419410222607 | 3600936  |
| LK11YR        | Handle            | Yellow/red                                  | 3, 4, 6 or 8-pole | 6419410222614 | 3600937  |
| LK11IP69K     | Handle            | Black IP69K                                 | 3, 4, 6 or 8-pole | 6419410483060 | 3600967  |
| LK11YRIP69K   | Handle            | Yellow/red IP69K                            | 3, 4, 6 or 8-pole | 6419410483077 | 3600968  |
| OKAKULK10     | Door mounting kit | Black, for 3P switch, with LK10 handle      | 3-pole            | 6419410224656 | 3600268  |
| OKAKULK10YR   | Door mounting kit | Yellow/red, for 3P switch, with LK10 handle | 3-pole            | 6419410224663 | 3600269  |
| OKAKU4PLK10   | Door mounting kit | Black, for 4P switch, with LK10 handle      | 4-pole            | 6419410224700 | 3600280  |
| OKAKU4PLK10YR | Door mounting kit | Yellow/red, for 4P switch, with LK10 handle | 4-pole            | 6419410224717 | 3600281  |
| OKAKULK101V   | Door mounting kit | 1NO/1NC W/ door mounting, black             | 3-pole            | 6419410224106 | 3635084  |
| OKA1VYR       | Door mounting kit | 1NO/1NC W/ door mounting, Y/R               | 3-pole            | 6419410224403 | 3600277  |
| OKA2V         | Door mounting kit | 2NO/2NC W/ door mounting, black             | 3-pole            | 6419410224205 | 3635085  |
| OKA2VYR       | Door mounting kit | 2NO/2NC W/ door mounting, Y/R               | 3-pole            | 6419410224502 | 3600278  |
| L100AD11      | Shaft             | Length 100 mm, aluminium                    | 3, 4, 6 or 8-pole | 6419410253106 | 3662291  |
| L200AD11      | Shaft             | Length 200 mm, aluminium                    | 3, 4, 6 or 8-pole | 6419410253113 | 3662292  |
| L300AD11      | Shaft             | Length 300 mm, aluminium                    | 3, 4, 6 or 8-pole | 6419410253120 | 3662293  |
| L100AD11VT    | Shaft             | Length 100 mm, steel, slanted               | 3, 4, 6 or 8-pole | 6419410253168 | 3600231  |
| L200AD11VT    | Shaft             | Length 200 mm, steel, slanted               | 3, 4, 6 or 8-pole | 6419410253175 | 3600271  |
| L300AD11VT    | Shaft             | Length 300 mm, steel, slanted               | 3, 4, 6 or 8-pole | 6419410253182 | 3600272  |
| KU1V          | Auxiliary contact | 1NO/1NC                                     | 3, 4, 6 or 8-pole | 6419410300008 | 3600490  |
| KU2V          | Auxiliary contact | 2NO/2NC                                     | 3, 4, 6 or 8-pole | 6419410300107 | 3600491  |
| KKU3P         | Front plate       | Grey plate, black direct handle             | 3-pole            | 6419410221600 | 3635066  |
| KKU4P         | Front plate       | Grey plate, black direct handle             | 4-pole            | 6419410222805 | 3600940  |
| KKU3PYR       | Front plate       | Yellow plate, red direct handle             | 3-pole            | 6419410221617 | 3600970  |
| KKU4PYR       | Front plate       | Yellow plate, red direct handle             | 4-pole            | 6419410222812 | 3600971  |
| RV66          | Parallel kit      | Length 66 mm, center shaft                  | 2 x 3-pole        | 6419410226285 | 3600925  |
| RV66S         | Parallel kit      | Length 66 mm, side shaft                    | 2 x 3-pole        | 6419410226261 | 3600924  |
| RV80          | Parallel kit      | Length 80 mm, center shaft                  | 2 x 4-pole        | 6419410226308 | 3600926  |
| RV80S         | Parallel kit      | Length 80 mm, side shaft                    | 2 x 4-pole        | 6419410226292 | 3600960  |

**Attention! Cable connectors must be used with Al-cables. With Cu-cables cable connector usage is optional. Other connectors may be compatible, ask for more options.**

## CABLE CONNECTORS - SUGGESTIONS PER CABLE CROSS SECTION

| 16 - 40 A, Al cable      | TOP      |          |          | BOTTOM |     |     |
|--------------------------|----------|----------|----------|--------|-----|-----|
| Terminal position        | 1L1      | 3L2      | 5L3      | 2T1    | 4T2 | 6T3 |
| 2.5 - 16 mm <sup>2</sup> |          |          |          |        |     |     |
| Connector                | KKL1X16  | KKL1X16  | KKL1X16  | -      | -   | -   |
| Terminal cover           | -        | -        | -        | -      | -   | -   |
| 25 - 50 mm <sup>2</sup>  |          |          |          |        |     |     |
| Connector                | KKL1X50M | KKL1X50M | KKL1X50M | -      | -   | -   |
| Terminal cover           | -        | -        | -        | -      | -   | -   |

| 63 - 80 A & 125 A (N), Al cable | TOP       |           |           | BOTTOM    |     |           |
|---------------------------------|-----------|-----------|-----------|-----------|-----|-----------|
| Terminal position               | 1L1       | 3L2       | 5L3       | 2T1       | 4T2 | 6T3       |
| 2.5 - 16 mm <sup>2</sup>        |           |           |           |           |     |           |
| Connector                       | KKL1X16   | KKL1X16   | KKL1X16   | -         | -   | -         |
| Terminal cover                  | -         | -         | -         | -         | -   | -         |
| 25 - 50 mm <sup>2</sup>         |           |           |           |           |     |           |
| Connector                       | KKL1X50T2 | KKL1X50T2 | KKL1X50T2 | KKL1X50T2 | -   | KKL1X50T2 |
| Terminal cover                  | -         | -         | -         | -         | -   | -         |

**All connectors and more information available in KATKO ConnectSafe Catalogue.**  
**You will find it here: [www.katko.com/downloads](http://www.katko.com/downloads)**

## TECHNICAL DATA

| LOAD BREAK SWITCHES                                                                   |          | KU ROTARY LBS |        |        |        |        |          |
|---------------------------------------------------------------------------------------|----------|---------------|--------|--------|--------|--------|----------|
|                                                                                       |          | 16A           | 25A    | 40A    | 63A    | 80A    | 125A (N) |
| Rated insulation voltage, U <sub>i</sub> (V)                                          |          | 800           | 800    | 800    | 800    | 800    | 800      |
| Rated thermal current, I <sub>th</sub> (A)                                            |          | 25            | 40     | 63     | 80     | 100    | 125      |
| Nominal values with cable size (mm <sup>2</sup> )                                     |          | 4             | 10     | 16     | 25     | 35     | 50       |
| Rated operational current, I <sub>o</sub> (A)                                         |          |               |        |        |        |        |          |
| AC-21A                                                                                | 400/415V | 25            | 40     | 63     | 80     | 100    | 125      |
|                                                                                       | 500V     | 25            | 40     | 63     | 80     | 100    | 125      |
|                                                                                       | 690V     | 25            | 40     | 63     | 80     | 100    | 125      |
| AC-22A                                                                                | 400/415V | 16            | 25     | 40     | 63     | 80     | 125      |
|                                                                                       | 500V     | 16            | 25     | 40     | 63     | 80     | 80       |
|                                                                                       | 690V     | 16            | 25     | 40     | 63     | 80     | 80       |
| AC-23A                                                                                | 400/415V | 16            | 25     | 40     | 40     | 63     | 63       |
|                                                                                       | 500V     | 16            | 25     | 32     | 40     | 40     | 40       |
|                                                                                       | 690V     | 16            | 25     | 32     | 40     | 40     | 40       |
|                                                                                       | 1000V    | -             | -      | -      | -      | -      | -        |
| Rated operational power for 3-phase (1500 r.p.m.) squirrel cage induction motors (kW) |          |               |        |        |        |        |          |
| AC-23                                                                                 | 400/415V | 7.5           | 11     | 15     | 22     | 30     | 30       |
|                                                                                       | 500V     | 7.5           | 15     | 22     | 30     | 30     | 30       |
|                                                                                       | 690V     | 11            | 22     | 30     | 37     | 37     | 37       |
| Rated fused short circuit current                                                     |          |               |        |        |        |        |          |
| Back-up fuse (A)                                                                      |          | 63            | 63     | 63     | 80     | 80     | 125      |
| R.M.S. value, I <sub>r</sub> (kA)                                                     |          | 50            | 50     | 50     | 50     | 50     | 30       |
| Peak value (kA)                                                                       |          | 7.2           | 7.2    | 7.2    | 8.7    | 8.7    | 10       |
| Impulse withstand voltage, U <sub>imp</sub> (kV)                                      |          | 8             | 8      | 8      | 8      | 8      | 8        |
| Rated short circuit making capacity, I <sub>sm</sub> (kA)                             |          |               |        |        |        |        |          |
|                                                                                       | 690V     | 2.5           | 2.5    | 2.5    | 3.1**  | 3.1**  | 3.1**    |
|                                                                                       |          |               |        |        |        |        |          |
| Rated short time withstand current (1 s), I <sub>sw</sub> (kA)                        |          |               |        |        |        |        |          |
|                                                                                       | 690V     | 1.7           | 1.7    | 1.7    | 2.0    | 2.0    | 2.0      |
|                                                                                       |          |               |        |        |        |        |          |
| Rated breaking capacity, I <sub>bn</sub> (A)                                          |          |               |        |        |        |        |          |
| AC-23                                                                                 | 400/415V | 128           | 200    | 256    | 320    | 504    | 504      |
|                                                                                       | 500V     | 128           | 200    | 256    | 320    | 320    | 320      |
|                                                                                       | 690V     | 128           | 200    | 256    | 320    | 320    | 320      |
| Electrical endurance (number of operations)                                           |          | 3000          | 3000   | 3000   | 3000   | 3000   | 3000     |
| Mechanical endurance (number of operations)                                           |          | 50000         | 50000  | 50000  | 50000  | 50000  | 50000    |
| Terminals / Bolt size Cu (mm <sup>2</sup> )                                           |          | 1.5-16        | 1.5-16 | 1.5-16 | 2.5-35 | 2.5-35 | 2.5-35   |
| Max terminal torque (Nm)                                                              |          | 1.8           | 1.8    | 1.8    | 2.5    | 2.5    | 2.5      |
| • 415 V                                                                               |          |               |        |        |        |        |          |
| ** 2.5kA when CCC marked                                                              |          |               |        |        |        |        |          |

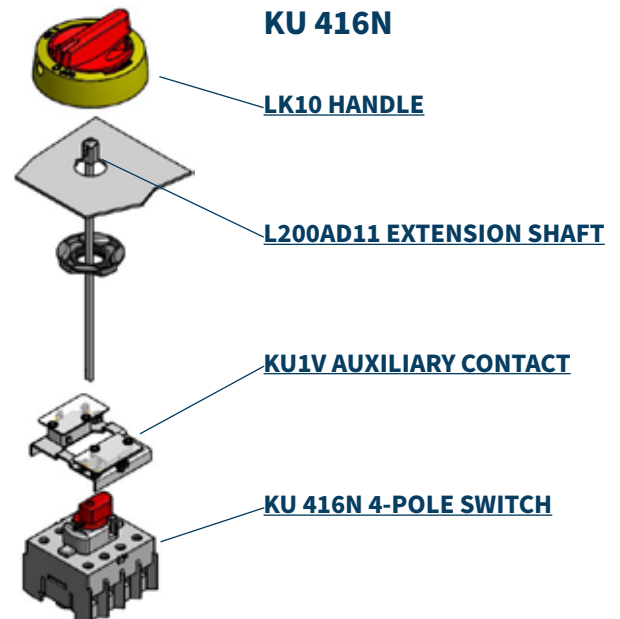
## 6 AND 8-POLE CONFIGURATIONS

- For a 6 or 8 -pole configuration
  - 2 x 3 or 4-pole KU switches
  - 1 x Parallel kit:
  - RV 66, RV 66S, RV 80, RV 80S
  - 1 x External handle for 6 or 8-pole

## CONNECTORS

| Type      | EAN           | E-NO    |
|-----------|---------------|---------|
| KKL1X16   | 6419410378496 | 1942079 |
| KKL1X50M  | 6419410378519 | 1942081 |
| KKL1X50T2 | 6419410378502 | 1942080 |

## ASSEMBLY EXAMPLE KU 416N



## LOAD BREAK SWITCHES 100-160 A ROTARY SWITCHES LOADSAFE KU SERIES



- Modular design
- DIN-rail mounting
- 3- and 4 pole switches as standard
- 6- and 8 pole switches consist of two 3- or 4 pole switches and a parallel kit
- Advanced silver contacts guarantee safe and durable use
- Compatible with handles LK10, LK11(3 and 4 poles) and LK12 (6 and 8 poles)
- Shafts: L100/200/300AD11 and L100/200/300 AD11VT (3 and 4 poles), L100/200/300AD12T (6 and 8 poles)

### SWITCHES

| Type    | EAN           | E-number | AC-23A 400/415 V (A) | AC-23A 400/415 V (kW) | AC-23A 690 V (A) | AC-23A 690 V (kW) | Weight (kg) | Switch Type       | Number of Poles |
|---------|---------------|----------|----------------------|-----------------------|------------------|-------------------|-------------|-------------------|-----------------|
| KU 3100 | 6419410203484 | 3600759  | 100                  | 55                    | 63               | 55                | 0,45        | Load Break Switch | 3               |
| KU 3125 | 6419410203491 | 3600785  | 125                  | 55                    | 80               | 75                | 0,45        | Load Break Switch | 3               |
| KU 3160 | 6419410203507 | 3600787  | 160                  | 90                    | 100              | 90                | 0,45        | Load Break Switch | 3               |
| KU 4100 | 6419410203675 | 3600788  | 100                  | 55                    | 63               | 55                | 0,59        | Load Break Switch | 4               |
| KU 4125 | 6419410203682 | 3600791  | 125                  | 55                    | 80               | 75                | 0,59        | Load Break Switch | 4               |
| KU 4160 | 6419410203514 | 3600793  | 160                  | 90                    | 100              | 90                | 0,59        | Load Break Switch | 4               |
| KU 6100 | 6419410203521 | 3600794  | 100                  | 55                    | 63               | 55                | 0,97        | Load Break Switch | 6               |
| KU 6125 | 6419410203538 | 3600795  | 125                  | 55                    | 80               | 75                | 0,97        | Load Break Switch | 6               |
| KU 6160 | 6419410203545 | 3600796  | 160                  | 90                    | 100              | 90                | 0,97        | Load Break Switch | 6               |
| KU 8100 | 6419410203552 | 3600797  | 100                  | 55                    | 63               | 55                | 1,18        | Load Break Switch | 8               |
| KU 8125 | 6419410203569 | 3600798  | 125                  | 55                    | 80               | 75                | 1,18        | Load Break Switch | 8               |
| KU 8160 | 6419410203576 | 3600799  | 160                  | 90                    | 100              | 90                | 1,18        | Load Break Switch | 8               |

### ACCESSORIES

| Type        | Accessory         | Description                   | For                                     | EAN           | E-number |
|-------------|-------------------|-------------------------------|-----------------------------------------|---------------|----------|
| LK10        | Handle            | Black                         | 3- & 4-pole                             | 6419410222539 | 3600934  |
| LK10YR      | Handle            | Yellow/red                    | 3- & 4-pole                             | 6419410222553 | 3600935  |
| LK11        | Handle            | Black                         | 3- & 4-pole                             | 6419410222607 | 3600936  |
| LK11YR      | Handle            | Yellow/red                    | 3- & 4-pole                             | 6419410222614 | 3600937  |
| LK11IP69K   | Handle            | Black                         | 3- & 4-pole                             | 6419410483060 | 3600967  |
| LK11YRIP69K | Handle            | Yellow/red                    | 3- & 4-pole                             | 6419410483077 | 3600968  |
| L100AD11VT  | Shaft             | Length 100 mm, steel, slanted | With LK10 and LK11 handles              | 6419410253168 | 3600231  |
| L200AD11VT  | Shaft             | Length 200 mm, steel, slanted | With LK10 and LK11 handles              | 6419410253175 | 3600271  |
| L300AD11VT  | Shaft             | Length 300 mm, steel, slanted | With LK10 and LK11 handles              | 6419410253182 | 3600272  |
| PK160KU     | Parallel Kit      | Parallel kit                  | For 2 x 3- or 4-pole switches           | 6419410203668 | 3600816  |
| 1V160KU     | Auxiliary contact | 1NO/1NC                       | For all configurations                  | 6419410300022 | 3600819  |
| 2V160KU     | Auxiliary contact | 2NO/2NC                       | For all configurations                  | 6419410300114 | 3600825  |
| LS160       | Cover             | Terminal cover for 3 poles    | For all configurations. Covers 3 poles. | 6419410203699 | 3600817  |
| LSN160      | Cover             | Terminal cover for N-pole     | 4- & 8-pole and 4-pole change-over      | 6419410203705 | 3600818  |
| LK12        | Handle            | Black                         | 6- & 8-pole                             | 6419410222683 | 3600766  |
| LK12YR      | Handle            | Yellow/red                    | 6- & 8-pole                             | 6419410222690 | 3600767  |
| L100AD12VT  | Shaft             | Length 100 mm, steel, slanted | With LK12 handle                        | 6419410253076 | 3600938  |
| L200AD12VT  | Shaft             | Length 200 mm, steel, slanted | With LK12 handle                        | 6419410253083 | 3600922  |
| L300AD12VT  | Shaft             | Length 300 mm, steel, slanted | With LK12 handle                        | 6419410253090 | 3600917  |



**Attention! Cable connectors must be used with Al-cables. With Cu-cables cable connector usage is optional. Other connectors may be compatible, ask for more options.**

## CABLE CONNECTORS - SUGGESTIONS PER CABLE CROSS SECTION

| 100 - 160 A, Al cable    | TOP       |                            |           | BOTTOM    |                            |           | 4-POLE    |             |
|--------------------------|-----------|----------------------------|-----------|-----------|----------------------------|-----------|-----------|-------------|
| Terminal position        | 1L1       | 3L2                        | 5L3       | 2T1       | 4T2                        | 6T3       | 7N (TOP)  | 8N (BOTTOM) |
| 2.5 - 50 mm <sup>2</sup> |           |                            |           |           |                            |           |           |             |
| Connector                | KKL1X50T2 | KKL1X50T2                  | KKL1X50T2 | KKL1X50T2 | KKL1X50T2                  | KKL1X50T2 | KKL1X50T2 | KKL1X50T2   |
| Terminal cover           | -         | LS/V5 160 3P (for 3 poles) | -         | -         | LS/V5 160 3P (for 3 poles) | -         | LS N160   | LS N160     |
| 70 - 120 mm <sup>2</sup> |           |                            |           |           |                            |           |           |             |
| Connector                | KKL1X120T | KKL1X120T                  | KKL1X120T | KKL1X120T | KKL1X120T                  | KKL1X120T | KKL1X120T | KKL1X120T   |
| Terminal cover           | -         | LS/V5 160 3P (for 3 poles) | -         | -         | LS/V5 160 3P (for 3 poles) | -         | LS N160   | LS N160     |

**All connectors and more information available in KATKO ConnectSafe Catalogue.**  
**You will find it here: [www.katko.com/downloads](http://www.katko.com/downloads)**

## TECHNICAL DATA

| LOAD BREAK SWITCHES                                                                   |          | KU ROTARY LBS |       |       |
|---------------------------------------------------------------------------------------|----------|---------------|-------|-------|
|                                                                                       |          | 100A          | 125A  | 160A  |
| Rated insulation voltage, $U_i$ (V)                                                   |          | 800           | 800   | 800   |
| Rated thermal current, $I_{th}$ (A)                                                   |          | 125           | 160   | 200   |
| Nominal values with cable size (mm <sup>2</sup> )                                     |          | 70            | 70    | 95    |
| Rated operational current, $I_n$ (A)                                                  |          |               |       |       |
| AC-21A                                                                                | 400/415V | 125           | 160   | 160   |
|                                                                                       | 500V     | 125           | 160   | 160   |
|                                                                                       | 690V     | 125           | 160   | 160   |
| AC-22A                                                                                | 400/415V | 100           | 125   | 160   |
|                                                                                       | 500V     | 100           | 125   | 160   |
|                                                                                       | 690V     | 100           | 125   | 160   |
| AC-23A                                                                                | 400/415V | 100           | 125   | 160   |
|                                                                                       | 500V     | 63            | 80    | 100   |
|                                                                                       | 690V     | 63            | 80    | 100   |
|                                                                                       | 1000V    | -             | -     | -     |
| Rated operational power for 3-phase (1500 r.p.m.) squirrel cage induction motors (kW) |          |               |       |       |
| AC-23                                                                                 | 400/415V | 55            | 55    | 90    |
|                                                                                       | 500V     | 37            | 55    | 55    |
|                                                                                       | 690V     | 55            | 75    | 90    |
| Rated fused short circuit current                                                     |          |               |       |       |
| Back-up fuse (A)                                                                      |          | 160           | 160   | 160   |
| R.M.S. value, $I_s$ (kA)                                                              |          | 65            | 65    | 65    |
| Peak value (kA)                                                                       |          | 15            | 15    | 15    |
| Impulse withstand voltage, $U_{imp}$ (kV)                                             |          | 8             | 8     | 8     |
| Rated short circuit making capacity, $I_{sm}$ (kA)                                    |          |               |       |       |
| 690V                                                                                  |          | 8             | 8     | 8     |
| Rated short time withstand current (1 s), $I_{sw}$ (kA)                               |          |               |       |       |
| 690V                                                                                  |          | 5             | 5     | 5     |
| Rated breaking capacity, $I_{bn}$ (A)                                                 |          |               |       |       |
| AC-23                                                                                 | 400/415V | 800           | 1000  | 1280  |
|                                                                                       | 500V     | 504           | 640   | 800   |
|                                                                                       | 690V     | 504           | 640   | 800   |
| Electrical endurance (number of operations)                                           |          | 2000          | 2000  | 2000  |
| Mechanical endurance (number of operations)                                           |          | 16000         | 16000 | 16000 |
| Terminals / Bolt size Cu (mm <sup>2</sup> )                                           |          | 6-70          | 6-70  | 6-70  |
| Max terminal torque (Nm)                                                              |          | 6             | 6     | 6     |

## 6 AND 8-POLE CONFIGURATIONS

- For a 6 or 8 -pole configuration
  - 2 x 3 or 4-pole KU switches
  - 1 x Parallel kit: PK160KU
  - 1 x External handle (LK12) for 6 or 8-pole
  - 1 x Shaft for LK12

## CONNECTORS

| Type      | EAN           | E-NO    |
|-----------|---------------|---------|
| KKL1X50T2 | 6419410378502 | 1942080 |
| KKL1X120T | 6419410378700 | 1942102 |



**KATKO ConnectSafe Catalogue.**  
**[www.katko.com/downloads](http://www.katko.com/downloads)**

## LOAD BREAK SWITCHES 200-250A & 160A (P) ROTARY SWITCHES LOADSAFE KU SERIES



**reddot winner 2021**  
industrial design

Made of recyclable halogen-free V0 plastic and next generation modular design.  
LoadSafe KU 200-800 A range was awarded with Red Dot (2021) industrial product design award

- Reliable switch for demanding industrial applications
- Made of 100% recyclable thermoplastic material
- The modular structure enables the drive mechanism position to be varied, mention when ordering
- Easy to install auxiliary contacts (1V160KU & 2V160KU)
- Available with terminal covers (LS250F & LS250H) and phase barriers (VS250)
- Available with direct handle (Operation = Direct handle); or handle (LKX100) and shaft (T6 AD12, 200mm shaft) (Operation = Rotary)
- Handle and shaft are included in the package
- Available with yellow/red handle (LKX100YR) and different length shaft when ordered separately
- 160 (P) model is an option for Katko's regular 160 A switch and suitable for industrial applications

### SWITCHES

| Type                                 | EAN           | E-number | AC-23A 690 V (A) | AC-23A 690 V (kW) | Weight (kg) | Operation       | Switch Type       | Number of Poles |
|--------------------------------------|---------------|----------|------------------|-------------------|-------------|-----------------|-------------------|-----------------|
| External handle and shaft (included) |               |          |                  |                   |             |                 |                   |                 |
| KU 3200W L200AD12T6LKX100            | 6419410205198 | 3602984  | 200              | 160               | 1           | External handle | Load Break Switch | 3               |
| KU 3250W L200AD12T6LKX100            | 6419410205204 | 3602985  | 250              | 250               | 1           | External handle | Load Break Switch | 3               |
| KU 4200W L200AD12T6LKX100            | 6419410205211 | 3602986  | 200              | 160               | 1,3         | External handle | Load Break Switch | 4               |
| KU 4250W L200AD12T6LKX100            | 6419410205228 | 3602987  | 250              | 250               | 1,3         | External handle | Load Break Switch | 4               |
| KU 6200W L200AD12T6LKX100            | 6419410205235 | 3602988  | 200              | 160               | 2,1         | External handle | Load Break Switch | 6               |
| KU 6250W L200AD12T6LKX100            | 6419410205242 | 3602989  | 250              | 250               | 2,1         | External handle | Load Break Switch | 6               |
| KU 8200W L200AD12T6LKX100            | 6419410205259 | 3602990  | 200              | 160               | 2,6         | External handle | Load Break Switch | 8               |
| KU 8250W L200AD12T6LKX100            | 6419410205266 | 3602991  | 250              | 250               | 2,6         | External handle | Load Break Switch | 8               |
| KU 3160PW L200AD12T6LKX100           | 6419410205464 | 3609223  | 160              | 132               | 1           | External handle | Load Break Switch | 3               |
| KU 4160PW L200AD12T6LKX100           | 6419410205471 | 3609224  | 160              | 132               | 1,3         | External handle | Load Break Switch | 4               |
| KU 6160PW L200AD12T6LKX100           | 6419410205488 | 3609225  | 160              | 132               | 2,1         | External handle | Load Break Switch | 6               |
| KU 8160PW L200AD12T6LKX100           | 6419410205495 | 3609226  | 160              | 132               | 2,6         | External handle | Load Break Switch | 8               |
| Direct handle                        |               |          |                  |                   |             |                 |                   |                 |
| KU 3200W SV                          | 6419410205310 | 3602996  | 200              | 160               | 1           | Direct handle   | Load Break Switch | 3               |
| KU 3250W SV                          | 6419410205327 | 3602997  | 250              | 250               | 1           | Direct handle   | Load Break Switch | 3               |
| KU 4200W SV                          | 6419410205334 | 3602998  | 200              | 160               | 1,3         | Direct handle   | Load Break Switch | 4               |
| KU 4250W SV                          | 6419410205341 | 3602999  | 250              | 250               | 1,3         | Direct handle   | Load Break Switch | 4               |
| KU 6200W SV                          | 6419410205426 | 3609219  | 200              | 160               | 2,1         | Direct handle   | Load Break Switch | 6               |
| KU 6250W SV                          | 6419410205433 | 3609220  | 250              | 250               | 2,1         | Direct handle   | Load Break Switch | 6               |
| KU 8200W SV                          | 6419410205440 | 3609221  | 200              | 160               | 2,6         | Direct handle   | Load Break Switch | 8               |
| KU 8250W SV                          | 6419410205457 | 3609222  | 250              | 250               | 2,6         | Direct handle   | Load Break Switch | 8               |
| KU 3160PW SV                         | 6419410205525 | 3609229  | 160              | 132               | 1           | Direct handle   | Load Break Switch | 3               |
| KU 4160PW SV                         | 6419410205532 | 3609230  | 160              | 132               | 1,3         | Direct handle   | Load Break Switch | 4               |
| KU 6160PW SV                         | 6419410205549 | 3609231  | 160              | 132               | 2,1         | Direct handle   | Load Break Switch | 6               |
| KU 8160PW SV                         | 6419410205556 | 3609232  | 160              | 132               | 2,6         | Direct handle   | Load Break Switch | 8               |

### RELATED ACCESSORIES

| Type       | Accessory         | Description                         | For                                          | EAN           | E-number |
|------------|-------------------|-------------------------------------|----------------------------------------------|---------------|----------|
| LKX100     | Handle            | Black handle                        | Standard external handle                     | 6419410483565 | 3602850  |
| LKX100YR   | Handle            | Yellow/red handle                   | Optional external handle                     | 6419410483596 | 3602852  |
| LS250H     | Terminal cover    | 1-pole terminal cover. High model.  | Use with vertical (VB & VM) cable connectors | 6419410205419 | 3609218  |
| LS250F     | Terminal cover    | 1-pole terminal cover. Flush model. | Use with regular cable connectors            | 6419410205402 | 3609217  |
| VS250      | Phase Barrier     | Phase barrier                       | For all configurations                       | 6419410205396 | 3609216  |
| L200AD12T6 | Shaft             | Length 200 mm, 6 mm steel shaft     | Standard shaft with external handle          | 6419410271063 | 3609237  |
| 1V160KU    | Auxiliary contact | 1NO/1NC                             | For all configurations                       | 6419410300022 | 3600819  |
| 2V160KU    | Auxiliary contact | 2NO/2NC                             | For all configurations                       | 6419410300114 | 3600825  |



**Attention! Cable connectors must be used with Al-cables. With Cu-cables cable connector usage is optional. Other connectors may be compatible, ask for more options.**

## CABLE CONNECTORS - SUGGESTIONS PER CABLE CROSS SECTION

| 100 - 160 A, Al cable           | TOP        |            |            | BOTTOM     |            |            |
|---------------------------------|------------|------------|------------|------------|------------|------------|
| Terminal position               | 1L1        | 3L2        | 5L3        | 2T1        | 4T2        | 6T3        |
| 2.5 - 50 mm <sup>2</sup>        |            |            |            |            |            |            |
| Connector                       | KKL2X50    | KKL2X50    | KKL2X50    | KKL2X50    | KKL2X50    | KKL2X50    |
| Terminal cover                  | LS250F     | LS250F     | LS250F     | LS250F     | LS250F     | LS250F     |
| 70 - 95 mm <sup>2</sup>         |            |            |            |            |            |            |
| Connector                       | KKL1X95    | KKL1X95    | KKL1X95    | KKL1X95    | KKL1X95    | KKL1X95    |
| Terminal cover                  | LS250F     | LS250F     | LS250F     | LS250F     | LS250F     | LS250F     |
| 120 - 150 mm <sup>2</sup>       |            |            |            |            |            |            |
| Connector, option 1             | KKL1X150   | KKL1X150   | KKL1X150   | KKL1X150   | KKL1X150   | KKL1X150   |
| Connector, option 2             | KKL2X150VM | KKL2X150VM | KKL2X150VM | KKL2X150VM | KKL2X150VM | KKL2X150VM |
| Connector, option 3             | KKL2X150VB | KKL2X150VB | KKL2X150VB | KKL2X150VB | KKL2X150VB | KKL2X150VB |
| Connector, option 4             | KLH2X150   | KLH2X150   | KLH2X150   | KLH2X150   | KLH2X150   | KLH2X150   |
| Terminal cover for option 1     | LS250F     | LS250F     | LS250F     | LS250F     | LS250F     | LS250F     |
| Terminal cover for option 2 & 3 | LS250H     | LS250H     | LS250H     | LS250H     | LS250H     | LS250H     |
| Terminal cover for option 4     | -          | -          | -          | -          | -          | -          |
| Spreader                        | -          | -          | -          | -          | -          | -          |

**All connectors and more information available in KATKO ConnectSafe Catalogue.**  
**You will find it here: [www.katko.com/downloads](http://www.katko.com/downloads)**

## TECHNICAL DATA

| LOAD BREAK SWITCHES                                                                   |          | KU ROTARY LBS |        |        |
|---------------------------------------------------------------------------------------|----------|---------------|--------|--------|
|                                                                                       |          | 160A (P)      | 200A   | 250A   |
| Rated insulation voltage, $U_i$ (V)                                                   |          | 1000          | 1000   | 1000   |
| Rated thermal current, $I_{th}$ (A)                                                   |          | 200           | 250    | 315    |
| Nominal values with cable size (mm <sup>2</sup> )                                     |          | 95            | 95     | 120    |
| Rated operational current, $I_{op}$ (A)                                               |          |               |        |        |
| AC-21A                                                                                | 400/415V | 160           | 200    | 250    |
|                                                                                       | 500V     | 160           | 200    | 250    |
|                                                                                       | 690V     | 160           | 200    | 250    |
| AC-22A                                                                                | 400/415V | 160           | 200    | 250    |
|                                                                                       | 500V     | 160           | 200    | 250    |
|                                                                                       | 690V     | 160           | 200    | 250    |
| AC-23A                                                                                | 400/415V | 160           | 200    | 250    |
|                                                                                       | 500V     | 160           | 200    | 250    |
|                                                                                       | 690V     | 160           | 200    | 250    |
|                                                                                       | 1000V    | -             | -      | 135    |
| Rated operational power for 3-phase (1500 r.p.m.) squirrel cage induction motors (kW) |          |               |        |        |
| AC-23                                                                                 | 400/415V | 90            | 110    | 132    |
|                                                                                       | 500V     | 110           | 132    | 160    |
|                                                                                       | 690V     | 132           | 160    | 250    |
| Rated fused short circuit current                                                     |          |               |        |        |
| Back-up fuse (A)                                                                      |          | 250           | 250    | 250    |
| R.M.S. value, $I_{sc}$ (kA)                                                           |          | 100***        | 100*** | 100*** |
| Peak value (kA)                                                                       |          | 26            | 26     | 26     |
| Impulse withstand voltage, $U_{imp}$ (kV)                                             |          | 12            | 12     | 12     |
| Rated short circuit making capacity, $I_{sm}$ (kA)                                    |          |               |        |        |
|                                                                                       | 690V     | 14            | 14     | 14     |
|                                                                                       |          |               |        |        |
| Rated short time withstand current (1 s), $I_{st}$ (kA)                               |          |               |        |        |
|                                                                                       | 690V     | 8***          | 8***   | 8***   |
|                                                                                       |          |               |        |        |
| Rated breaking capacity, $I_{bn}$ (A)                                                 |          |               |        |        |
| AC-23                                                                                 | 400/415V | 1280          | 1600   | 2000   |
|                                                                                       | 500V     | 1280          | 1600   | 2000   |
|                                                                                       | 690V     | 1280          | 1600   | 2000   |
| Electrical endurance (number of operations)                                           |          | 2000          | 2000   | 2000   |
| Mechanical endurance (number of operations)                                           |          | 16000         | 16000  | 16000  |
| Terminals / Bolt size Cu (mm <sup>2</sup> )                                           |          | M8            | M8     | M8     |
| Max terminal torque (Nm)                                                              |          | 15-22         | 15-22  | 15-22  |
| *** 1000V                                                                             |          |               |        |        |
| *** 50kA with 315A fuse                                                               |          |               |        |        |

## 6 AND 8-POLE CONFIGURATIONS

- 6 and 8 -pole configurations are factory assembled and cannot be self-assembled. 6 and 8 -pole configurations are always supplied with an external handle and a shaft.

## CONNECTORS

| Type       | EAN           | E-NO    |
|------------|---------------|---------|
| KKL2X50    | 6419410378588 | 1942088 |
| KKL1X95    | 6419410200230 | 1942129 |
| KKL1X150   | 6419410378618 | 1942091 |
| KKL2X150VM | 6419410484302 | 1942111 |
| KKL2X150VB | 6419410484319 | 1942112 |
| KLH2X150   | 6419410358580 | 1942117 |



**KATKO ConnectSafe Catalogue.**  
**[www.katko.com/downloads](http://www.katko.com/downloads)**

## LOAD BREAK SWITCHES 315-400 A ROTARY SWITCHES LOADSAFE KU SERIES



**reddot winner 2021**  
industrial design

Made of recyclable halogen-free V0 plastic and next generation modular design. LoadSafe KU 200-800 A range was awarded with Red Dot (2021) industrial product design award

- Reliable switch for demanding industrial applications
- Made of 100% recyclable thermoplastic material
- The modular structure enables the drive mechanism position to be varied, mention when ordering
- Easy to install auxiliary contacts (1V160KU & 2V160KU)
- Available with terminal covers (LS800F & LS800H) and phase barriers (VS800)
- Available with direct handle (Operation = Direct handle); or handle (LKX150) and shaft (LVK228, 228mm shaft) (Operation = Rotary)
- Handle and shaft are included in the package
- Available with yellow/red handle (LKX150YR) and different length shaft when ordered separately

### SWITCHES

| Type                                 | EAN           | E-number | AC-23A 690 V (A) | AC-23A 690 V (kW) | Weight (kg) | Operation       | Switch Type       | Number of Poles |
|--------------------------------------|---------------|----------|------------------|-------------------|-------------|-----------------|-------------------|-----------------|
| External handle and shaft (included) |               |          |                  |                   |             |                 |                   |                 |
| KU 3315 LVK228LKX150                 | 6419410300152 | 3602923  | 315              | 315               | 2,05        | External handle | Load Break Switch | 3               |
| KU 3400 LVK228LKX150                 | 6419410300169 | 3602924  | 400              | 355               | 2,05        | External handle | Load Break Switch | 3               |
| KU 4315 LVK228LKX150                 | 6419410300176 | 3602925  | 315              | 315               | 2,49        | External handle | Load Break Switch | 4               |
| KU 4400 LVK228LKX150                 | 6419410300183 | 3602926  | 400              | 355               | 2,49        | External handle | Load Break Switch | 4               |
| KU 6315 LVK228LKX150                 | 6419410300190 | 3602927  | 315              | 315               | 4,884       | External handle | Load Break Switch | 6               |
| KU 6400 LVK228LKX150                 | 6419410300213 | 3602928  | 400              | 355               | 4,884       | External handle | Load Break Switch | 6               |
| KU 8315 LVK228LKX150                 | 6419410300220 | 3602929  | 315              | 315               | 5,782       | External handle | Load Break Switch | 8               |
| KU 8400 LVK228LKX150                 | 6419410300237 | 3602930  | 400              | 355               | 5,782       | External handle | Load Break Switch | 8               |
| Direct handle                        |               |          |                  |                   |             |                 |                   |                 |
| KU 3315 SV                           | 6419410300282 | 3602935  | 315              | 315               | 2,05        | Direct handle   | Load Break Switch | 3               |
| KU 3400 SV                           | 6419410300299 | 3602936  | 400              | 355               | 2,05        | Direct handle   | Load Break Switch | 3               |
| KU 4315 SV                           | 6419410300312 | 3602937  | 315              | 315               | 2,49        | Direct handle   | Load Break Switch | 4               |
| KU 4400 SV                           | 6419410300329 | 3602938  | 400              | 355               | 2,49        | Direct handle   | Load Break Switch | 4               |

### RELATED ACCESSORIES

| Type     | Accessory         | Description                         | For                                          | EAN           | E-number |
|----------|-------------------|-------------------------------------|----------------------------------------------|---------------|----------|
| LS400H   | Terminal cover    | 1-pole terminal cover. High model.  | Use with vertical (VB & VM) cable connectors | 6419410300398 | 3602945  |
| LS400F   | Terminal cover    | 1-pole terminal cover. Flush model. | Use with regular cable connectors            | 6419410300381 | 3602944  |
| VS400    | Phase Barrier     | Phase barrier                       | For all configurations                       | 6419410300374 | 3602943  |
| 1V160KU  | Auxiliary contact | 1NO/1NC                             | For all configurations                       | 6419410300022 | 3600819  |
| 2V160KU  | Auxiliary contact | 2NO/2NC                             | For all configurations                       | 6419410300114 | 3600825  |
| LVK228   | Shaft             | Length 228 mm, steel                | Delivered with external handle               | 6419410221440 | 3600348  |
| LKX150   | Handle            | Black handle                        | Delivered as external handle                 | 6419410483572 | 3602851  |
| LKX150YR | Handle            | Yellow/red handle                   | Option as external handle                    | 6419410483602 | 3602853  |



**Attention! Cable connectors must be used with Al-cables. With Cu-cables cable connector usage is optional. Other connectors may be compatible, ask for more options.**

## CABLE CONNECTORS - SUGGESTIONS PER CABLE CROSS SECTION

| 315 - 400 A, Al cable           | TOP        |            |            | BOTTOM     |            |            |
|---------------------------------|------------|------------|------------|------------|------------|------------|
| Terminal position               | 1L1        | 3L2        | 5L3        | 2T1        | 4T2        | 6T3        |
| 2.5 - 50 mm <sup>2</sup>        |            |            |            |            |            |            |
| Connector                       | KKL2X50    | KKL2X50    | KKL2X50    | KKL2X50    | KKL2X50    | KKL2X50    |
| Terminal cover                  | LS400F     | LS400F     | LS400F     | LS400F     | LS400F     | LS400F     |
| 70 - 95 mm <sup>2</sup>         |            |            |            |            |            |            |
| Connector                       | KKL1X95    | KKL1X95    | KKL1X95    | KKL1X95    | KKL1X95    | KKL1X95    |
| Terminal cover                  | LS400F     | LS400F     | LS400F     | LS400F     | LS400F     | LS400F     |
| 120 - 150 mm <sup>2</sup>       |            |            |            |            |            |            |
| Connector, option 1             | KKL1X150   | KKL1X150   | KKL1X150   | KKL1X150   | KKL1X150   | KKL1X150   |
| Connector, option 2             | KKL2X150VM | KKL2X150VM | KKL2X150VM | KKL2X150VM | KKL2X150VM | KKL2X150VM |
| Connector, option 3             | KKL2X150VB | KKL2X150VB | KKL2X150VB | KKL2X150VB | KKL2X150VB | KKL2X150VB |
| Connector, option 4             | KLH2X150   | KLH2X150   | KLH2X150   | KLH2X150   | KLH2X150   | KLH2X150   |
| Terminal cover for option 1     | LS400F     | LS400F     | LS400F     | LS400F     | LS400F     | LS400F     |
| Terminal cover for option 2 & 3 | LS400H     | LS400H     | LS400H     | LS400H     | LS400H     | LS400H     |
| Terminal cover for option 4     | -          | -          | -          | -          | -          | -          |
| Spreader                        | -          | -          | -          | -          | -          | -          |

**All connectors and more information available in KATKO ConnectSafe Catalogue.**  
**You will find it here: [www.katko.com/downloads](http://www.katko.com/downloads)**

## TECHNICAL DATA

| LOAD BREAK SWITCHES                                                                   |          | KU ROTARY LBS |         |
|---------------------------------------------------------------------------------------|----------|---------------|---------|
|                                                                                       |          | 315A          | 400A    |
| Rated insulation voltage, $U_i$ (V)                                                   |          | 1000          | 1000    |
| Rated thermal current, $I_{th}$ (A)                                                   |          | 315           | 400     |
| Nominal values with cable size (mm <sup>2</sup> )                                     |          | 185           | 240     |
| Rated operational current, $I_n$ (A)                                                  |          |               |         |
| AC-21A                                                                                | 400/415V | 315           | 400     |
|                                                                                       | 500V     | 315           | 400     |
|                                                                                       | 690V     | 315           | 400     |
| AC-22A                                                                                | 400/415V | 315           | 400     |
|                                                                                       | 500V     | 315           | 400     |
|                                                                                       | 690V     | 315           | 400     |
| AC-23A                                                                                | 400/415V | 315           | 400     |
|                                                                                       | 500V     | 315           | 400     |
|                                                                                       | 690V     | 315           | 400     |
|                                                                                       | 1000V    | -             | 200     |
| Rated operational power for 3-phase (1500 r.p.m.) squirrel cage induction motors (kW) |          |               |         |
| AC-23                                                                                 | 400/415V | 160           | 200     |
|                                                                                       | 500V     | 200           | 250     |
|                                                                                       | 690V     | 315           | 355     |
| Rated fused short circuit current                                                     |          |               |         |
| Back-up fuse (A)                                                                      |          | 400           | 400     |
| R.M.S. value, $I_{sc}$ (kA)                                                           |          | 100           | 100     |
| Peak value (kA)                                                                       |          | 42            | 42      |
| Impulse withstand voltage, $U_{imp}$ (kV)                                             |          | 12            | 12      |
| Rated short circuit making capacity, $I_{sm}$ (kA)                                    |          |               |         |
|                                                                                       | 690V     | 27,5          | 27,5    |
|                                                                                       | 690V     | 13.5***       | 13.5*** |
| Rated short time withstand current (1 s), $I_{st}$ (kA)                               |          |               |         |
|                                                                                       | 690V     | 13.5***       | 13.5*** |
| Rated breaking capacity, $I_{br}$ (A)                                                 |          |               |         |
| AC-23                                                                                 | 400/415V | 2520          | 3200    |
|                                                                                       | 500V     | 2520          | 3200    |
|                                                                                       | 690V     | 2520          | 3200    |
| Electrical endurance (number of operations)                                           |          | 2000          | 2000    |
| Mechanical endurance (number of operations)                                           |          | 10000         | 10000   |
| Terminals / Bolt size Cu (mm <sup>2</sup> )                                           |          | M10           | M10     |
| Max terminal torque (Nm)                                                              |          | 30-44         | 30-44   |
| *** 1000V                                                                             |          |               |         |

## 6 AND 8-POLE CONFIGURATIONS

- 6 and 8 -pole configurations are factory assembled and cannot be self-assembled. 6 and 8 -pole configurations are always supplied with an external handle and a shaft.

## CONNECTORS

| Type       | EAN           | E-NO    |
|------------|---------------|---------|
| KKL2X50    | 6419410378588 | 1942088 |
| KKL1X95    | 6419410200230 | 1942129 |
| KKL1X150   | 6419410378618 | 1942091 |
| KKL2X150VM | 6419410484302 | 1942111 |
| KKL2X150VB | 6419410484319 | 1942112 |
| KLH2X150   | 6419410358580 | 1942117 |



**KATKO ConnectSafe Catalogue.**  
**[www.katko.com/downloads](http://www.katko.com/downloads)**

## LOAD BREAK SWITCHES 630-800 A ROTARY SWITCHES LOADSAFE KU SERIES



**reddot winner 2021**  
industrial design

Made of recyclable halogen-free V0 plastic and next generation modular design.  
LoadSafe KU 200-800 A range was awarded with Red Dot (2021) industrial product design award

- Reliable switch for demanding industrial applications
- Made of 100% recyclable thermoplastic material
- The modular structure enables the drive mechanism position to be varied, mention when ordering
- Easy to install auxiliary contacts (1V160KU & 2V160KU)
- Available with terminal covers (LS800F & LS800H) and phase barriers (VS800)
- Available with direct handle (Operation = Direct handle); or handle (LKX150) and shaft (LVK228, 228mm shaft) (Operation = Rotary)
- Handle and shaft are included in the package
- Available with yellow/red handle (LKX150YR) and different length shaft when ordered separately

## SWITCHES

| Type                                 | EAN           | E-number | AC-23A 400/415 V (A) | AC-23A 400/415 V (kW) | AC-23A 690 V (A) | AC-23A 690 V (kW) | Weight (kg) | Operation       | Switch Type       | Number of Poles |
|--------------------------------------|---------------|----------|----------------------|-----------------------|------------------|-------------------|-------------|-----------------|-------------------|-----------------|
| External handle and shaft (included) |               |          |                      |                       |                  |                   |             |                 |                   |                 |
| KU 3630 LVK228LKX150                 | 6419410483626 | 3602826  | 630                  | 355                   | 630              | 630               | 4,5         | External handle | Load Break Switch | 3               |
| KU 3800 LVK228LKX150                 | 6419410483633 | 3602827  | 800                  | 400                   | 800              | 800               | 4,5         | External handle | Load Break Switch | 3               |
| KU 4630 LVK228LKX150                 | 6419410483640 | 3602828  | 630                  | 355                   | 630              | 630               | 5,6         | External handle | Load Break Switch | 4               |
| KU 4800 LVK228LKX150                 | 6419410483657 | 3602829  | 800                  | 400                   | 800              | 800               | 5,6         | External handle | Load Break Switch | 4               |
| KU 6630 LVK228LKX150                 | 6419410483664 | 3602842  | 630                  | 355                   | 630              | 630               | 9           | External handle | Load Break Switch | 6               |
| KU 6800 LVK228LKX150                 | 6419410483671 | 3602843  | 800                  | 400                   | 800              | 800               | 9           | External handle | Load Break Switch | 6               |
| KU 8630 LVK228LKX150                 | 6419410483688 | 3602844  | 630                  | 355                   | 630              | 630               | 11,2        | External handle | Load Break Switch | 8               |
| KU 8800 LVK228LKX150                 | 6419410483695 | 3602845  | 800                  | 400                   | 800              | 800               | 11,2        | External handle | Load Break Switch | 8               |
| Direct handle                        |               |          |                      |                       |                  |                   |             |                 |                   |                 |
| KU 3630 SV                           | 6419410483992 | 3602883  | 630                  | 355                   | 630              | 630               | 4,5         | Direct handle   | Load Break Switch | 3               |
| KU 3800 SV                           | 6419410484005 | 3602884  | 800                  | 400                   | 800              | 800               | 4,5         | Direct handle   | Load Break Switch | 3               |
| KU 4630 SV                           | 6419410484012 | 3602885  | 630                  | 355                   | 630              | 630               | 5,6         | Direct handle   | Load Break Switch | 4               |
| KU 4800 SV                           | 6419410484029 | 3602886  | 800                  | 400                   | 800              | 800               | 5,6         | Direct handle   | Load Break Switch | 4               |

## RELATED ACCESSORIES

| Type     | Accessory         | Description                | For                                          | EAN           | E-number |
|----------|-------------------|----------------------------|----------------------------------------------|---------------|----------|
| 1V160KU  | Auxiliary contact | 1NO/1NC                    | For all configurations                       | 6419410300022 | 3600819  |
| 2V160KU  | Auxiliary contact | 2NO/2NC                    | For all configurations                       | 6419410300114 | 3600825  |
| LVK228   | Shaft             | Length 228 mm, steel       | Delivered with external handle               | 6419410221440 | 3600348  |
| LKX150   | Handle            | Black handle               | Delivered as external handle                 | 6419410483572 | 3602851  |
| LKX150YR | Handle            | Yellow/red handle          | Option as external handle                    | 6419410483602 | 3602853  |
| LS800F   | Terminal cover    | Terminal cover, low model  | Use with regular cable connectors            | 6419410484487 | 3602913  |
| LS800H   | Terminal cover    | Terminal cover, high model | Use with vertical (VB & VM) cable connectors | 6419410484494 | 3602914  |
| VS800    | Phase barrier     | Phase barrier              | For all configurations                       | 6419410483756 | 3602856  |
| ALK800   | Spreader          | 1 pcs                      | 3 and 4-pole                                 | 6419410205884 | 3602982  |
| ALK800C  | Spreader          | 1 pcs                      | 3-pole                                       | 6419410205877 | 3602983  |



**All connectors and more information available in KATKO ConnectSafe Catalogue. You will find it here: [www.katko.com/downloads](http://www.katko.com/downloads)**

**Attention! Cable connectors must be used with Al-cables. With Cu-cables cable connector usage is optional. Other connectors may be compatible, ask for more options.**

## CABLE CONNECTORS - SUGGESTIONS PER CABLE CROSS SECTION

| 630 - 800 A, Al cable           | TOP        |            |            | BOTTOM     |            |            |
|---------------------------------|------------|------------|------------|------------|------------|------------|
| Terminal position               | 1L1        | 3L2        | 5L3        | 2T1        | 4T2        | 6T3        |
| 2.5 - 50 mm <sup>2</sup>        |            |            |            |            |            |            |
| Connector                       | KKL2X50    | KKL2X50    | KKL2X50    | KKL2X50    | KKL2X50    | KKL2X50    |
| Terminal cover                  | LS800F     | LS800F     | LS800F     | LS800F     | LS800F     | LS800F     |
| 70 - 95 mm <sup>2</sup>         |            |            |            |            |            |            |
| Connector                       | KKL1X95    | KKL1X95    | KKL1X95    | KKL1X95    | KKL1X95    | KKL1X95    |
| Terminal cover                  | LS800F     | LS800F     | LS800F     | LS800F     | LS800F     | LS800F     |
| 120 - 150 mm <sup>2</sup>       |            |            |            |            |            |            |
| Connector, option 1             | KKL1X150   | KKL1X150   | KKL1X150   | KKL1X150   | KKL1X150   | KKL1X150   |
| Connector, option 2             | KKL2X150VM | KKL2X150VM | KKL2X150VM | KKL2X150VM | KKL2X150VM | KKL2X150VM |
| Connector, option 3             | KKL2X150VB | KKL2X150VB | KKL2X150VB | KKL2X150VB | KKL2X150VB | KKL2X150VB |
| Connector, option 4             | KLH2X150   | KLH2X150   | KLH2X150   | KLH2X150   | KLH2X150   | KLH2X150   |
| Terminal cover for option 1     | LS800F     | LS800F     | LS800F     | LS800F     | LS800F     | LS800F     |
| Terminal cover for option 2 & 3 | LS800H     | LS800H     | LS800H     | LS800H     | LS800H     | LS800H     |
| Terminal cover for option 4     | -          | -          | -          | -          | -          | -          |
| 185 - 240 mm <sup>2</sup>       |            |            |            |            |            |            |
| Connector, option 1             | KKL1X240   | KKL1X240   | KKL1X240   | KKL1X240   | KKL1X240   | KKL1X240   |
| Connector, option 2             | KKL2X240VM | KKL2X240VM | KKL2X240VM | KKL2X240VM | KKL2X240VM | KKL2X240VM |
| Connector, option 3             | KKL2X240VB | KKL2X240VB | KKL2X240VB | KKL2X240VB | KKL2X240VB | KKL2X240VB |
| Connector, option 4             | KLH2X240   | KLH2X240   | KLH2X240   | KLH2X240   | KLH2X240   | KLH2X240   |
| Terminal cover for option 1     | LS800F     | LS800F     | LS800F     | LS800F     | LS800F     | LS800F     |
| Terminal cover for option 2 & 3 | LS800H     | LS800H     | LS800H     | LS800H     | LS800H     | LS800H     |
| Terminal cover for option 4     | -          | -          | -          | -          | -          | -          |
| 300 mm <sup>2</sup>             |            |            |            |            |            |            |
| Connector, option 1             | KKL1X300   | KKL1X300   | KKL1X300   | KKL1X300   | KKL1X300   | KKL1X300   |
| Connector, option 2             | KKL2X300VM | KKL2X300VM | KKL2X300VM | KKL2X300VM | KKL2X300VM | KKL2X300VM |
| Connector, option 3             | KKL2X300VB | KKL2X300VB | KKL2X300VB | KKL2X300VB | KKL2X300VB | KKL2X300VB |
| Connector, option 4             | KLH2X300   | KLH2X300   | KLH2X300   | KLH2X300   | KLH2X300   | KLH2X300   |
| Terminal cover for option 1     | LS800F     | LS800F     | LS800F     | LS800F     | LS800F     | LS800F     |
| Terminal cover for option 2 & 3 | LS800H     | LS800H     | LS800H     | LS800H     | LS800H     | LS800H     |
| Terminal cover for option 4     | -          | -          | -          | -          | -          | -          |

## TECHNICAL DATA

| LOAD BREAK SWITCHES                                                                   |          | KU ROTARY LBS |       |
|---------------------------------------------------------------------------------------|----------|---------------|-------|
| Rated insulation voltage, U <sub>i</sub> (V)                                          |          | 1000          | 1000  |
| Rated thermal current, I <sub>th</sub> (A)                                            |          | 630           | 800   |
| Nominal values with cable size (mm <sup>2</sup> )                                     |          | 2x185         | 2x240 |
| Rated operational current, I <sub>e</sub> (A)                                         |          |               |       |
| AC-21A                                                                                | 400/415V | 630           | 800   |
|                                                                                       | 500V     | 630           | 800   |
|                                                                                       | 690V     | 630           | 800   |
| AC-22A                                                                                | 400/415V | 630           | 800   |
|                                                                                       | 500V     | 630           | 800   |
|                                                                                       | 690V     | 630           | 800   |
| AC-23A                                                                                | 400/415V | 630           | 800   |
|                                                                                       | 500V     | 630           | 800   |
|                                                                                       | 690V     | 630           | 800   |
|                                                                                       | 1000V    | -             | 400   |
| Rated operational power for 3-phase (1500 r.p.m.) squirrel cage induction motors (kW) |          |               |       |
| AC-23                                                                                 | 400/415V | 355           | 400   |
|                                                                                       | 500V     | 400           | 560   |
|                                                                                       | 690V     | 630           | 800   |
| Rated fused short circuit current                                                     |          |               |       |
| Back-up fuse (A)                                                                      |          | 630           | 800   |
| R.M.S. value, I <sub>k</sub> (kA)                                                     |          | 100           | 100   |
| Peak value (kA)                                                                       |          | 76            | 76    |
| Impulse withstand voltage, U <sub>imp</sub> (kV)                                      |          | 12            | 12    |
| Rated short circuit making capacity, I <sub>cm</sub> (kA)                             |          |               |       |
| 690V                                                                                  |          | 60            | 60    |
| Rated short time withstand current (1 s), I <sub>cw</sub> (kA)                        |          |               |       |
| 690V                                                                                  |          | 28***         | 28*** |
| Rated breaking capacity, I <sub>cn</sub> (A)                                          |          |               |       |
| AC-23                                                                                 | 400/415V | 5040          | 6400  |
|                                                                                       | 500V     | 5040          | 6400  |
|                                                                                       | 690V     | 5040          | 6400  |
| Electrical endurance (number of operations)                                           |          | 2000          | 2000  |
| Mechanical endurance (number of operations)                                           |          | 10000         | 10000 |
| Terminals / Bolt size Cu (mm <sup>2</sup> )                                           |          | M12           | M12   |
| Max terminal torque (Nm)                                                              |          | 50-75         | 50-75 |
| *** 1000V                                                                             |          |               |       |

Image:  
KU 3800  
with ALK800 spreaders and KKL1X300  
and KKL2X300VB connectors

## 6 AND 8-POLE CONFIGURATIONS

- 6 and 8 -pole configurations are factory assembled and cannot be self-assembled. 6 and 8 -pole configurations are always supplied with an external handle and a shaft.

## CONNECTORS

| Type       | EAN           | E-NO    |
|------------|---------------|---------|
| KKL2X50    | 6419410378588 | 1942088 |
| KKL1X95    | 6419410200230 | 1942129 |
| KKL1X150   | 6419410378618 | 1942091 |
| KKL2X150VM | 6419410484302 | 1942111 |
| KKL2X150VB | 6419410484319 | 1942112 |
| KLH2X150   | 6419410358580 | 1942117 |
| KKL1X240   | 6419410378632 | 1942093 |
| KKL2X240VM | 6419410484326 | 1942113 |
| KKL2X240VB | 6419410484333 | 1942114 |
| KLH2X240   | 6419410358597 | 1942118 |
| KKL1X300   | 6419410484289 | 1942109 |
| KKL2X300VM | 6419410484340 | 1942115 |
| KKL2X300VB | 6419410484357 | 1942116 |
| KLH2X300   | 6419410358603 | 1942119 |

**KATKO ConnectSafe Catalogue.**  
**[www.katko.com/downloads](http://www.katko.com/downloads)**



## LOAD BREAK SWITCHES 200-250 A COMPACT ROTARY SWITCHES LOADSAFE VKA SERIES



- Compact size
- 3-pole and 4-pole VKA-switches as standard, 2-pole upon request
- Switch technology by means of silver contacts ensures safe and durable operation
- 200-250A: Handle LK12 for 200A-250A and shaft L228AD12T6 included, suitable for 250 mm panel board
- Terminal covers LSVKAC and phase barriers VSVKAC enable safe use

## SWITCHES

| Type                             | EAN           | E-number | AC-23A 400/415 V (A) | AC-23A 400/415 V (kW) | Weight (kg) | Switch Type       | Number of Poles |
|----------------------------------|---------------|----------|----------------------|-----------------------|-------------|-------------------|-----------------|
| Without terminal covers          |               |          |                      |                       |             |                   |                 |
| VKA 3200 L228AD12T6LK12          | 6419410218020 | 3609240  | 200                  | 110                   | 1,4         | Load Break Switch | 3               |
| VKA 3250 L228AD12T6LK12          | 6419410218044 | 3600226  | 250                  | 132                   | 1,4         | Load Break Switch | 3               |
| VKA 4200 L228AD12T6LK12          | 6419410219126 | 3609241  | 200                  | 110                   | 1,6         | Load Break Switch | 4               |
| VKA 4250 L228AD12T6LK12          | 6419410219140 | 3600228  | 250                  | 132                   | 1,6         | Load Break Switch | 4               |
| With terminal covers             |               |          |                      |                       |             |                   |                 |
| VKA 3200 L228AD12T6LK12 2XLS4XVS | 6419410218037 | 3609242  | 200                  | 110                   | 1,5         | Load Break Switch | 3               |
| VKA 3250 L228AD12T6LK12 2XLS4XVS | 6419410218051 | 3600227  | 250                  | 132                   | 1,5         | Load Break Switch | 3               |
| VKA 4200 L228AD12T6LK12 2XLS6XVS | 6419410219133 | 3609243  | 200                  | 110                   | 1,7         | Load Break Switch | 4               |
| VKA 4250 L228AD12T6LK12 2XLS6XVS | 6419410219157 | 3600229  | 250                  | 132                   | 1,7         | Load Break Switch | 4               |



## RELATED ACCESSORIES

| Type       | Accessory         | Description               | For                    | EAN           | E-number |
|------------|-------------------|---------------------------|------------------------|---------------|----------|
| LK12       | Handle            | Black                     | For all configurations | 6419410222683 | 3600766  |
| LK12YR     | Handle            | Yellow/red                | For all configurations | 6419410222690 | 3600767  |
| LSVKAC     | Terminal cover    | Transparent blue plastic  | For all configurations | 6419410218099 | 3609238  |
| VSVKAC     | Phase barrier     | Transparent white plastic | For all configurations | 6419410218082 | 3609239  |
| VKAC1V     | Auxiliary contact | 1NO/1NC                   | For all configurations | 6419410300800 | 3600918  |
| VKAC2V     | Auxiliary contact | 2NO/2NC                   | For all configurations | 6419410300909 | 3600919  |
| L228AD12T6 | Shaft             | Length 228 mm, steel      | With LK12 handle       | 6419410271087 | 3600827  |



**Attention! Cable connectors must be used with Al-cables. With Cu-cables cable connector usage is optional. Other connectors may be compatible, ask for more options.**

## CABLE CONNECTORS - SUGGESTIONS PER CABLE CROSS SECTION

| 200 - 250 A, Al cable | TOP                           |            |            | BOTTOM     |            |            |
|-----------------------|-------------------------------|------------|------------|------------|------------|------------|
| Terminal position     | 1L1                           | 3L2        | 5L3        | 2T1        | 4T2        | 6T3        |
| 2.5 - 50 mm2          |                               |            |            |            |            |            |
| Connector             | KKL2X50                       | KKL2X50    | KKL2X50    | KKL2X50    | KKL2X50    | KKL2X50    |
| Terminal cover        | (included with LS/VS version) |            |            |            |            |            |
| 70 - 95 mm2           |                               |            |            |            |            |            |
| Connector             | KKL1X95                       | KKL1X95    | KKL1X95    | KKL1X95    | KKL1X95    | KKL1X95    |
| Terminal cover        | (included with LS/VS version) |            |            |            |            |            |
| 120 mm2               |                               |            |            |            |            |            |
| Connector             | KKL1X120RS                    | KKL1X120RS | KKL1X120RS | KKL1X120RS | KKL1X120RS | KKL1X120RS |
| Terminal cover        | (included with LS/VS version) |            |            |            |            |            |

**All connectors and more information available in KATKO ConnectSafe Catalogue.**  
**You will find it here: [www.katko.com/downloads](http://www.katko.com/downloads)**

## TECHNICAL DATA

| LOAD BREAK SWITCHES                                                                   |          | VKA ROTARY LBS |       |
|---------------------------------------------------------------------------------------|----------|----------------|-------|
|                                                                                       |          | 200A           | 250A  |
| Rated insulation voltage, $U_i$ (V)                                                   |          | 1000           | 1000  |
| Rated thermal current, $I_{th}$ (A)                                                   |          | 200            | 250   |
| Nominal values with cable size (mm <sup>2</sup> )                                     |          | 95             | 120   |
| Rated operational current, $I_n$ (A)                                                  |          |                |       |
| AC-21A                                                                                | 400/415V | 200            | 250   |
|                                                                                       | 500V     | 200            | 250   |
|                                                                                       | 690V     | 200            | 250   |
| AC-22A                                                                                | 400/415V | 200            | 250   |
|                                                                                       | 500V     | -              | -     |
|                                                                                       | 690V     | -              | -     |
| AC-23A                                                                                | 400/415V | 200            | 250   |
|                                                                                       | 500V     | -              | -     |
|                                                                                       | 690V     | -              | -     |
|                                                                                       | 1000V    | -              | -     |
| Rated operational power for 3-phase (1500 r.p.m.) squirrel cage induction motors (kW) |          |                |       |
| AC-23                                                                                 | 400/415V | 110            | 132   |
|                                                                                       | 500V     | -              | -     |
|                                                                                       | 690V     | -              | -     |
| Rated fused short circuit current                                                     |          |                |       |
| Back-up fuse (A)                                                                      |          | 250            | 250   |
| R.M.S. value, $I_{sc}$ (kA)                                                           |          | 50             | 50    |
| Peak value (kA)                                                                       |          | 22             | 22    |
| Impulse withstand voltage, $U_{imp}$ (kV)                                             |          | 8              | 8     |
| Rated short circuit making capacity, $I_{sm}$ (kA)                                    |          |                |       |
| 690V                                                                                  |          | 11.4*          | 11.4* |
| Rated short time withstand current (1 s), $I_{st}$ (kA)                               |          |                |       |
| 690V                                                                                  |          | 6.5*           | 6.5*  |
| Rated breaking capacity, $I_{br}$ (A)                                                 |          |                |       |
| AC-23                                                                                 | 400/415V | 1600           | 2000  |
|                                                                                       | 500V     | -              | -     |
|                                                                                       | 690V     | -              | -     |
| Electrical endurance (number of operations)                                           |          | 2000           | 2000  |
| Mechanical endurance (number of operations)                                           |          | 16000          | 16000 |
| Terminals / Bolt size Cu (mm <sup>2</sup> )                                           |          | M8             | M8    |
| Max terminal torque (Nm)                                                              |          | 15-22          | 15-22 |
| * 415 V                                                                               |          |                |       |

## CONNECTORS

| Type       | EAN           | E-NO    |
|------------|---------------|---------|
| KKL2X50    | 6419410378588 | 1942088 |
| KKL1X95    | 6419410200230 | 1942129 |
| KKL1X120RS | 6419410378687 | 1942098 |



**KATKO ConnectSafe Catalogue.**  
**[www.katko.com/downloads](http://www.katko.com/downloads)**

## LOAD BREAK SWITCHES 16-125 A TOGGLE SWITCHES LOADSAFE KUE SERIES



- DIN-rail mounting
- 3-poles
- Switch technology by means of silver contacts ensures safe and durable operation
- Available with adapter (AD1) to connect the switch to a three-phase section rail
- Available with yellow front plate and red toggle

### SWITCHES

| Type                             | EAN           | E-number | AC-23A 400/415 V (A) | AC-23A 400/415 V (kW) | AC-23A 690 V (A) | AC-23A 690 V (kW) | Weight (kg) | Number of Poles |
|----------------------------------|---------------|----------|----------------------|-----------------------|------------------|-------------------|-------------|-----------------|
| Without front plate              |               |          |                      |                       |                  |                   |             |                 |
| KUE 316                          | 6419410200308 | 3609244  | 16                   | 7,5                   | 16               | 11                | 0,17        | 3               |
| KUE 325                          | 6419410200407 | 3609245  | 25                   | 11                    | 20               | 15                | 0,17        | 3               |
| KUE 340                          | 6419410200506 | 3609246  | 25                   | 11                    | 20               | 15                | 0,17        | 3               |
| KUE 363                          | 6419410200605 | 3609247  | 40                   | 22                    | 32               | 30                | 0,18        | 3               |
| KUE 380                          | 6419410200704 | 3609248  | 63                   | 30                    | 32               | 30                | 0,18        | 3               |
| KUE 3125                         | 6419410200919 | 3635401  | 63                   | 30                    | 32               | 30                | 0,18        | 3               |
| With front plate and AD1 adapter |               |          |                      |                       |                  |                   |             |                 |
| KUE 316 AD1KKUE                  | 6419410200322 | 3609249  | 16                   | 7,5                   | 16               | 11                | 0,21        | 3               |
| KUE 325 AD1KKUE                  | 6419410200421 | 3609250  | 25                   | 11                    | 20               | 15                | 0,21        | 3               |
| KUE 340 AD1KKUE                  | 6419410200520 | 3635030  | 25                   | 11                    | 20               | 15                | 0,21        | 3               |
| KUE 363 AD1KKUE                  | 6419410200629 | 3609251  | 40                   | 22                    | 32               | 30                | 0,22        | 3               |
| KUE 380 AD1KKUE                  | 6419410200728 | 3635035  | 63                   | 30                    | 32               | 30                | 0,22        | 3               |
| KUE 3125 AD1KKUE                 | 6419410200834 | 3635402  | 63                   | 30                    | 32               | 30                | 0,22        | 3               |



### RELATED ACCESSORIES

| Type | Accessory   | Description                   | For                                                      | EAN           | E-number |
|------|-------------|-------------------------------|----------------------------------------------------------|---------------|----------|
| KKUE | Front plate | Rectangular front plate, grey | For all configurations where front plate is not included | 6419410221808 | 3635087  |
| RKUE | Front plate | Round front plate, grey       | For all configurations where front plate is not included | 6419410221907 | 3635086  |

**Attention! Cable connectors must be used with Al-cables. With Cu-cables cable connector usage is optional. Other connectors may be compatible, ask for more options.**

## CABLE CONNECTORS - SUGGESTIONS PER CABLE CROSS SECTION

| 16 - 40 A, Al cable      | TOP       |           |           | BOTTOM    |     |           |
|--------------------------|-----------|-----------|-----------|-----------|-----|-----------|
| Terminal position        | 1L1       | 3L2       | 5L3       | 2T1       | 4T2 | 6T3       |
| 2.5 - 16 mm <sup>2</sup> |           |           |           |           |     |           |
| Connector                | KKL1X16   | KKL1X16   | KKL1X16   | -         | -   | -         |
| Terminal cover           | -         | -         | -         | -         | -   | -         |
| 2.5 - 50 mm <sup>2</sup> |           |           |           |           |     |           |
| Connector                | KKL1X50M  | KKL1X50M  | KKL1X50M  | -         | -   | -         |
| Terminal cover           | -         | -         | -         | -         | -   | -         |
| 63 - 125 A, Al cable     |           |           |           |           |     |           |
| Terminal position        | 1L1       | 3L2       | 5L3       | 2T1       | 4T2 | 6T3       |
| 2.5 - 16 mm <sup>2</sup> |           |           |           |           |     |           |
| Connector                | KKL1X16   | KKL1X16   | KKL1X16   | -         | -   | -         |
| Terminal cover           | -         | -         | -         | -         | -   | -         |
| 25 - 50 mm <sup>2</sup>  |           |           |           |           |     |           |
| Connector                | KKL1X50T2 | KKL1X50T2 | KKL1X50T2 | KKL1X50T2 | -   | KKL1X50T2 |
| Terminal cover           | -         | -         | -         | -         | -   | -         |

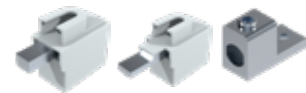
**All connectors and more information available in KATKO ConnectSafe Catalogue.**  
**You will find it here: [www.katko.com/downloads](http://www.katko.com/downloads)**

## TECHNICAL DATA

| LOAD BREAK SWITCHES                                                                   |          | KUE TOGGLE LBS |        |        |        |        |        |
|---------------------------------------------------------------------------------------|----------|----------------|--------|--------|--------|--------|--------|
|                                                                                       |          | 16A            | 25A    | 40A    | 63A    | 80A    | 125A   |
| Rated insulation voltage, $U_i$ (V)                                                   |          | 800            | 800    | 800    | 800    | 800    | 690    |
| Rated thermal current, $I_{th}$ (A)                                                   |          | 25             | 40     | 63     | 80     | 100    | 125    |
| Nominal values with cable size (mm <sup>2</sup> )                                     |          | 4              | 10     | 16     | 25     | 35     | 50     |
| Rated operational current, $I_{op}$ (A)                                               |          |                |        |        |        |        |        |
| AC-21A                                                                                | 400/415V | 25             | 40     | 63     | 80     | 100    | 125    |
|                                                                                       | 500V     | 25             | 40     | 63     | 80     | 100    | 125    |
|                                                                                       | 690V     | 25             | 40     | 63     | 80     | 100    | 125    |
| AC-22A                                                                                | 400/415V | 16             | 25     | 40     | 63     | 80     | 125    |
|                                                                                       | 500V     | 16             | 25     | 40     | 63     | 80     | 80     |
|                                                                                       | 690V     | 16             | 25     | 40     | 63     | 80     | 80     |
| AC-23A                                                                                | 400/415V | 16             | 25     | 25     | 40     | 63     | 63     |
|                                                                                       | 500V     | 16             | 20     | 20     | 32     | 32     | 32     |
|                                                                                       | 690V     | 16             | 20     | 20     | 32     | 32     | 32     |
|                                                                                       | 1000V    | -              | -      | -      | -      | -      | -      |
| Rated operational power for 3-phase (1500 r.p.m.) squirrel cage induction motors (kW) |          |                |        |        |        |        |        |
| AC-23                                                                                 | 400/415V | 7.5            | 11     | 11     | 22     | 30     | 30     |
|                                                                                       | 500V     | 7.5            | 11     | 11     | 22     | 22     | 22     |
|                                                                                       | 690V     | 11             | 15     | 15     | 30     | 30     | 30     |
| Rated fused short circuit current                                                     |          |                |        |        |        |        |        |
| Back-up fuse (A)                                                                      |          | 63             | 63     | 63     | 80     | 80     | 125    |
| R.M.S. value, $I_{sc}$ (kA)                                                           |          | 50             | 50     | 50     | 50     | 50     | 30     |
| Peak value (kA)                                                                       |          | 7.2            | 7.2    | 7.2    | 8.7    | 8.7    | 10     |
| Impulse withstand voltage, $U_{imp}$ (kV)                                             |          | 8              | 8      | 8      | 8      | 8      | 8      |
| Rated short circuit making capacity, $I_{sm}$ (kA)                                    |          |                |        |        |        |        |        |
| 690V                                                                                  |          | 2.5            | 2.5    | 2.5    | 3.1**  | 3.1**  | 3.3    |
| Rated short time withstand current (1 s), $I_{st}$ (kA)                               |          |                |        |        |        |        |        |
| 690V                                                                                  |          | 1.7            | 1.7    | 1.7    | 2.0    | 2.0    | 2.3    |
| Rated breaking capacity, $I_{br}$ (A)                                                 |          |                |        |        |        |        |        |
| AC-23                                                                                 | 400/415V | 128            | 200    | 200    | 320    | 504    | 504    |
|                                                                                       | 500V     | 128            | 160    | 160    | 256    | 256    | 320    |
|                                                                                       | 690V     | 128            | 160    | 160    | 256    | 256    | 320    |
| Electrical endurance (number of operations)                                           |          | 3000           | 3000   | 3000   | 3000   | 3000   | 3000   |
| Mechanical endurance (number of operations)                                           |          | 50000          | 50000  | 50000  | 50000  | 50000  | 50000  |
| Terminals / Bolt size Cu (mm <sup>2</sup> )                                           |          | 1.5-16         | 1.5-16 | 1.5-16 | 2.5-35 | 2.5-35 | 2.5-50 |
| Max terminal torque (Nm)                                                              |          | 1.8            | 1.8    | 1.8    | 2.5    | 2.5    | 2.5    |
| ** 2.5kA when CCC marked                                                              |          |                |        |        |        |        |        |

## CONNECTORS

| Type      | EAN           | E-NO    |
|-----------|---------------|---------|
| KKL1X16   | 6419410378496 | 1942079 |
| KKL1X50M  | 6419410378519 | 1942081 |
| KKL1X50T2 | 6419410378502 | 1942080 |



**KATKO ConnectSafe Catalogue.**  
**[www.katko.com/downloads](http://www.katko.com/downloads)**

## LOAD BREAK SWITCHES 125-250 A TOGGLE SWITCHES LOADSAFE EVA SERIES



- Switch technology by means of silver contacts ensures a long life expectancy and safe use in demanding conditions

### 125-160 A:

- Available also with yellow front plate and red toggle (YR)

### 200-250 A:

- 3-pole and 4-pole
- Available with terminal covers and phase barriers (LSVS)
- Available also with red toggle (R)

## SWITCHES

| Type                                               | EAN           | E-number | AC-23A 400/415 V (A) | AC-23A 400/415 V (kW) | Weight (kg) | Switch Type       | Number of Poles |
|----------------------------------------------------|---------------|----------|----------------------|-----------------------|-------------|-------------------|-----------------|
| 125-160 A, with front plate                        |               |          |                      |                       |             |                   |                 |
| EVA 3125 KEVA                                      | 6419410202517 | 3635033  | 80                   | 45                    | 0,51        | Load Break Switch | 3               |
| EVA 3160 KEVA                                      | 6419410203019 | 3635039  | 125                  | 75                    | 0,51        | Load Break Switch | 3               |
| EVA 3125 KEVAR                                     | 6419410202524 | 3600801  | 80                   | 45                    | 0,51        | Load Break Switch | 3               |
| EVA 3160 KEVAR                                     | 6419410203026 | 3600803  | 125                  | 75                    | 0,51        | Load Break Switch | 3               |
| EVA 3125 KEVAYR                                    | 6419410202531 | 3600802  | 80                   | 45                    | 0,51        | Load Break Switch | 3               |
| EVA 3160 KEVAYR                                    | 6419410203033 | 3600804  | 125                  | 75                    | 0,51        | Load Break Switch | 3               |
| 200-250 A, without front plate and terminal covers |               |          |                      |                       |             |                   |                 |
| EVA 3200                                           | 6419410203156 | 3609252  | 160                  | 75                    | 0,9         | Load Break Switch | 3               |
| EVA 3250                                           | 6419410203200 | 3600806  | 200                  | 90                    | 0,9         | Load Break Switch | 3               |
| EVA 3200 R                                         | 6419410203163 | 3609253  | 160                  | 75                    | 0,9         | Load Break Switch | 3               |
| EVA 3250 R                                         | 6419410203217 | 3600807  | 200                  | 90                    | 0,9         | Load Break Switch | 3               |
| EVA 4200                                           | 6419410203262 | 3600840  | 160                  | 75                    | 1,1         | Load Break Switch | 4               |
| EVA 4250                                           | 6419410203309 | 3600841  | 200                  | 90                    | 1,1         | Load Break Switch | 4               |
| EVA 4200 R                                         | 6419410203279 | 3600842  | 160                  | 75                    | 1,1         | Load Break Switch | 4               |
| EVA 4250 R                                         | 6419410203316 | 3600843  | 200                  | 90                    | 1,1         | Load Break Switch | 4               |
| 200-250 A, with terminal covers and phase barriers |               |          |                      |                       |             |                   |                 |
| EVA 3200 2XLS4XVS                                  | 6419410203170 | 3609254  | 160                  | 75                    | 0,9         | Load Break Switch | 3               |
| EVA 3250 2XLS4XVS                                  | 6419410203224 | 3600808  | 200                  | 90                    | 0,9         | Load Break Switch | 3               |
| EVA 3200 R 2XLS4XVS                                | 6419410203187 | 3609255  | 160                  | 75                    | 0,9         | Load Break Switch | 3               |
| EVA 3250 R 2XLS4XVS                                | 6419410203231 | 3600809  | 200                  | 90                    | 0,9         | Load Break Switch | 3               |
| EVA 4200 2XLS6XVS                                  | 6419410203286 | 3600844  | 160                  | 75                    | 1,2         | Load Break Switch | 4               |
| EVA 4250 2XLS6XVS                                  | 6419410203323 | 3600845  | 200                  | 90                    | 1,2         | Load Break Switch | 4               |
| EVA 4200 R 2XLS6XVS                                | 6419410203293 | 3600846  | 160                  | 75                    | 1,2         | Load Break Switch | 4               |
| EVA 4250 R 2XLS6XVS                                | 6419410203330 | 3600847  | 200                  | 90                    | 1,2         | Load Break Switch | 4               |



## RELATED ACCESSORIES

| Type    | Accessory | Description | For                         | EAN           | E-number |
|---------|-----------|-------------|-----------------------------|---------------|----------|
| ALK3160 | Spreader  | 3P switch   | 3- & 4-pole and change-over | 6419410225301 | 3635078  |
| ALK4160 | Spreader  | 4P switch   | 3- & 4-pole and change-over | 6419410225400 | 3635079  |

**Attention! Cable connectors must be used with Al-cables. With Cu-cables cable connector usage is optional. Other connectors may be compatible, ask for more options.**

## CABLE CONNECTORS - SUGGESTIONS PER CABLE CROSS SECTION

| 125 - 160 A, Al cable    | TOP        |            |            | BOTTOM     |            |            |
|--------------------------|------------|------------|------------|------------|------------|------------|
| Terminal position        | 1L1        | 3L2        | 5L3        | 2T1        | 4T2        | 6T3        |
| 2.5 - 50 mm <sup>2</sup> |            |            |            |            |            |            |
| Connector                | KKL1X50T2  | KKL1X50T2  | KKL1X50T2  | KKL1X50T2  | KKL1X50T2  | KKL1X50T2  |
| Terminal cover           | -          | -          | -          | -          | -          | -          |
| Spreader                 | -          | -          | -          | -          | -          | -          |
| 70 - 120 mm <sup>2</sup> |            |            |            |            |            |            |
| Connector                | KKL1X120T3 | KKL1X120T2 | KKL1X120T1 | KKL1X120T1 | KKL1X120T2 | KKL1X120T3 |
| Terminal cover           | -          | -          | -          | -          | -          | -          |
| Spreader                 | -          | -          | -          | -          | -          | -          |

| 200 - 250 A, Al cable | TOP                           |            |            | BOTTOM     |            |            |
|-----------------------|-------------------------------|------------|------------|------------|------------|------------|
| Terminal position     | 1L1                           | 3L2        | 5L3        | 2T1        | 4T2        | 6T3        |
| 2.5 - 50 mm2          |                               |            |            |            |            |            |
| Connector             | KKL2X50                       | KKL2X50    | KKL2X50    | KKL2X50    | KKL2X50    | KKL2X50    |
| Terminal cover        | (included with LS/VS version) |            |            |            |            |            |
| 70 - 95 mm2           |                               |            |            |            |            |            |
| Connector             | KKL1X95                       | KKL1X95    | KKL1X95    | KKL1X95    | KKL1X95    | KKL1X95    |
| Terminal cover        | (included with LS/VS version) |            |            |            |            |            |
| 120 mm2               |                               |            |            |            |            |            |
| Connector             | KKL1X120RS                    | KKL1X120RS | KKL1X120RS | KKL1X120RS | KKL1X120RS | KKL1X120RS |
| Terminal cover        | (included with LS/VS version) |            |            |            |            |            |

**All connectors and more information available in KATKO ConnectSafe Catalogue.**

**You will find it here: [www.katko.com/downloads](http://www.katko.com/downloads)**

## TECHNICAL DATA

| LOAD BREAK SWITCHES                                                                   |          | EVA TOGGLE LBS |       |       |       |
|---------------------------------------------------------------------------------------|----------|----------------|-------|-------|-------|
|                                                                                       |          | 125A           | 160A  | 200A  | 250A  |
| Rated insulation voltage, $U_i$ (V)                                                   |          | 690            | 690   | 690   | 690   |
| Rated thermal current, $I_{th}$ (A)                                                   |          | 160            | 200   | 200   | 250   |
| Nominal values with cable size (mm <sup>2</sup> )                                     |          | 70             | 95    | 95    | 120   |
| Rated operational current, $I_n$ (A)                                                  |          |                |       |       |       |
| AC-21A                                                                                | 400/415V | 160            | 200   | 200   | 250   |
|                                                                                       | 500V     | -              | -     | -     | -     |
|                                                                                       | 690V     | -              | -     | -     | -     |
| AC-22A                                                                                | 400/415V | 125            | 160   | 200   | 250   |
|                                                                                       | 500V     | -              | -     | -     | -     |
|                                                                                       | 690V     | -              | -     | -     | -     |
| AC-23A                                                                                | 400/415V | 80             | 125   | 160   | 200   |
|                                                                                       | 500V     | -              | -     | -     | -     |
|                                                                                       | 690V     | -              | -     | -     | -     |
|                                                                                       | 1000V    | -              | -     | -     | -     |
| Rated operational power for 3-phase (1500 r.p.m.) squirrel cage induction motors (kW) |          |                |       |       |       |
| AC-23                                                                                 | 400/415V | 45             | 75    | 75    | 90    |
|                                                                                       | 500V     | 55             | 75    | -     | -     |
|                                                                                       | 690V     | 55             | 90    | -     | -     |
| Rated fused short circuit current                                                     |          |                |       |       |       |
| Back-up fuse (A)                                                                      |          | 160            | 160   | 250   | 250   |
| R.M.S. value, $I_s$ (kA)                                                              |          | 50             | 50    | 50    | 50    |
| Peak value (kA)                                                                       |          | 15             | 15    | 21    | 21    |
| Impulse withstand voltage, $U_{imp}$ (kV)                                             |          | 8/6            | 8/6   | 6     | 6     |
| Rated short circuit making capacity, $I_{cm}$ (kA)                                    |          |                |       |       |       |
|                                                                                       | 690V     | 5.1            | 5.1   | 11.4  | 11.4  |
|                                                                                       | 690V     | 3.5            | 3.5   | 6.5   | 6.5   |
| Rated short time withstand current (1 s), $I_{sw}$ (kA)                               |          |                |       |       |       |
|                                                                                       | 690V     | 3.5            | 3.5   | 6.5   | 6.5   |
| Rated breaking capacity, $I_{bn}$ (A)                                                 |          |                |       |       |       |
| AC-23                                                                                 | 400/415V | 800            | 840   | 1600  | 1600  |
|                                                                                       | 500V     | 640            | 1000  | -     | -     |
|                                                                                       | 690V     | 640            | 1000  | -     | -     |
| Electrical endurance (number of operations)                                           |          | 2000           | 2000  | 2000  | 2000  |
| Mechanical endurance (number of operations)                                           |          | 16000          | 16000 | 16000 | 16000 |
| Terminals / Bolt size Cu (mm <sup>2</sup> )                                           |          | 6-70           | 6-70  | M8    | M8    |
| Max terminal torque (Nm)                                                              |          | 6              | 6     | 15-22 | 15-22 |
| • 415 V                                                                               |          |                |       |       |       |

## CONNECTORS

| Type       | EAN           | E-NO    |
|------------|---------------|---------|
| KKL1X50T2  | 6419410378502 | 1942080 |
| KKL1X120T3 | 6419410378540 | 1942084 |
| KKL1X120T2 | 6419410378533 | 1942083 |
| KKL1X120T1 | 6419410378526 | 1942082 |
| KKL2X50    | 6419410378588 | 1942088 |
| KKL1X95    | 6419410200230 | 1942129 |
| KKL1X120RS | 6419410378687 | 1942098 |



**KATKO ConnectSafe Catalogue.**  
**[www.katko.com/downloads](http://www.katko.com/downloads)**

## UL98 LISTED 60-100 A ROTARY SWITCHES LOADSAFE KU SERIES



- General use rating 60 – 100 A / 600VAC, refer to detailed product specifications
- Lockable to off-position
- Modular design
- Switching speed is independent of the operator
- Silver contacts ensure safe and durable operation
- Suitable for use on a circuit capable of delivering 50kA rms symmetrical, 600 Vac when protected by Class J, 60A/100A fuse.
- Change-over switches consist of two 3- or 4-pole switches.

## SWITCHES

| Type          | EAN           | Ampere rating 600 V | HP 240 V | HP 480 V | HP 600 V | Weight (lb/kg) | Switch Type        | Number of Poles |
|---------------|---------------|---------------------|----------|----------|----------|----------------|--------------------|-----------------|
| KU 360UL98    | 6419410203712 | 60 A                | 20HP     | 40HP     | 60HP     | 0.99 / 0.45    | Disconnect switch  | 3               |
| KU 3100UL98   | 6419410203729 | 100 A               | 25HP     | 50HP     | 75HP     | 1.3 / 0.45     | Disconnect switch  | 3               |
| KU 460UL98    | 6419410203736 | 60 A                | 20HP     | 40HP     | 60HP     | 0.99 / 0.45    | Disconnect switch  | 4               |
| KU 4100UL98   | 6419410203743 | 100 A               | 25HP     | 50HP     | 75HP     | 1.3 / 0.45     | Disconnect switch  | 4               |
| KU 360COUL98  | 6419410203798 | 60 A                | 20HP     | 40HP     | 60HP     | 2.81 / 1.28    | Change-over switch | 3               |
| KU 3100COUL98 | 6419410203804 | 100 A               | 25HP     | 50HP     | 75HP     | 2.2 / 1        | Change-over switch | 3               |
| KU 460COUL98  | 6419410203811 | 60 A                | 20HP     | 40HP     | 60HP     | 2.81 / 1.28    | Change-over switch | 4               |
| KU 4100COUL98 | 6419410203828 | 100 A               | 25HP     | 50HP     | 75HP     | 2.81 / 1.28    | Change-over switch | 4               |

## ACCESSORIES



| Type       | Accessory         | Description                   | For                                     | EAN           |
|------------|-------------------|-------------------------------|-----------------------------------------|---------------|
| LK10UL     | UL Handle         | Black                         | 3- & 4-pole                             | 6419410222577 |
| LK10ULYR   | UL Handle         | Yellow/red                    | 3- & 4-pole                             | 6419410222584 |
| LK11UL     | UL Handle         | Black                         | 3- & 4-pole                             | 6419410222515 |
| LK11ULYR   | UL Handle         | Yellow/red                    | 3- & 4-pole                             | 6419410222522 |
| L100AD11VT | Shaft             | Length 100 mm, steel, slanted | With LK10 and LK11 handles              | 6419410253168 |
| L200AD11VT | Shaft             | Length 200 mm, steel, slanted | With LK10 and LK11 handles              | 6419410253175 |
| L300AD11VT | Shaft             | Length 300 mm, steel, slanted | With LK10 and LK11 handles              | 6419410253182 |
| 1V160KU    | Auxiliary contact | 1NO/1NC                       | For all configurations                  | 6419410300022 |
| 2V160KU    | Auxiliary contact | 2NO/2NC                       | For all configurations                  | 6419410300114 |
| LS160      | Cover             | Terminal cover for 3 poles    | For all configurations. Covers 3 poles. | 6419410203699 |
| LSN160     | Cover             | Terminal cover for N-pole     | 4-pole and 4-pole change-over           | 6419410203705 |



## UL LISTED 16-150 A ROTARY & TOGGLE SWITCHES LOADSAFE SERIES

KU 16 - 80A



KUE 16 - 80A



VKA 80 - 160 A



EVA 80 - 160 A

- UL 60947-4-1A
- General use rating 16 – 150 A / 600VAC, refer to detailed product specifications
- Silver contacts ensure safe and durable operation
- Rotary and toggle switches

### KU rotary switch

- 16-80 A

- Lockable to off-position with front plate, available separately

- Door mounting kit available

### VKA rotary switch

- 80-160 A

- Lockable to off-position with front plate, available separately

- Door mounting kit available

### KUE toggle switch

- 16-80 A

- Lockable to off-position with front plate

### EVA toggle switch

- 80-160 A

- Lockable to off-position with front plate

## SWITCHES

ACCESSORIES AVAILABLE: [www.katko.com/products/ul-listed/ul-listed-accessories/](http://www.katko.com/products/ul-listed/ul-listed-accessories/)

| Type          | EAN           | Ampere rating 600 V | HP 240 V | HP 480 V | HP 600 V | Weight (lb/kg) | Switch Type                                      | Number of Poles |
|---------------|---------------|---------------------|----------|----------|----------|----------------|--------------------------------------------------|-----------------|
| KU 316N       | 6419410214305 | 16 A                | 3HP      | 10HP     | 7.5HP    | 0.418 / 0.19   | Rotary disconnect switch                         | 3               |
| KU 325N       | 6419410214404 | 25 A                | 5HP      | 15HP     | 10HP     | 0.418 / 0.19   | Rotary disconnect switch                         | 3               |
| KU 340N       | 6419410214503 | 40 A                | 7.5HP    | 20HP     | 15HP     | 0.418 / 0.19   | Rotary disconnect switch                         | 3               |
| KU 363N       | 6419410214602 | 60 A                | 10HP     | 25HP     | 25HP     | 0.418 / 0.19   | Rotary disconnect switch                         | 3               |
| KU 380N       | 6419410214701 | 80 A                | 15HP     | 30HP     | 30HP     | 0.418 / 0.19   | Rotary disconnect switch                         | 3               |
| KU 416N       | 6419410215005 | 16 A                | 3HP      | 10HP     | 7.5HP    | 0.485 / 0.22   | Rotary disconnect switch                         | 4               |
| KU 425N       | 6419410215203 | 25 A                | 5HP      | 15HP     | 10HP     | 0.485 / 0.22   | Rotary disconnect switch                         | 4               |
| KU 440N       | 6419410215500 | 40 A                | 7.5HP    | 20HP     | 15HP     | 0.485 / 0.22   | Rotary disconnect switch                         | 4               |
| KU 463N       | 6419410215906 | 60 A                | 10HP     | 25HP     | 25HP     | 0.485 / 0.22   | Rotary disconnect switch                         | 4               |
| KU 480N       | 6419410216002 | 80 A                | 15HP     | 30HP     | 30HP     | 0.485 / 0.22   | Rotary disconnect switch                         | 4               |
| VKA 380N      | 6419410217443 | 80 A                | 15HP     | 30HP     | 40HP     | 1.124 / 0.51   | Rotary disconnect switch                         | 3               |
| VKA 3100N     | 6419410217450 | 100 A               | 20HP     | 40HP     | 50HP     | 1.124 / 0.51   | Rotary disconnect switch                         | 3               |
| VKA 3125N     | 6419410217504 | 125 A               | 25HP     | 50HP     | 60HP     | 1.124 / 0.51   | Rotary disconnect switch                         | 3               |
| VKA 3160N     | 6419410218006 | 150 A               | 30HP     | 60HP     | 75HP     | 1.124 / 0.51   | Rotary disconnect switch                         | 3               |
| VKA 480N      | 6419410218440 | 80 A                | 15HP     | 30HP     | 40HP     | 1.455 / 0.66   | Rotary disconnect switch                         | 4               |
| VKA 4100N     | 6419410218556 | 100 A               | 20HP     | 40HP     | 50HP     | 1.455 / 0.66   | Rotary disconnect switch                         | 4               |
| VKA 4125N     | 6419410218600 | 125 A               | 25HP     | 50HP     | 60HP     | 1.455 / 0.66   | Rotary disconnect switch                         | 4               |
| VKA 4160N     | 6419410219102 | 150 A               | 30HP     | 60HP     | 75HP     | 1.455 / 0.66   | Rotary disconnect switch                         | 4               |
| KUE 316       | 6419410200308 | 16 A                | 3HP      | 10HP     | 7.5HP    | 0.374 / 0.17   | Toggle disconnect switch                         | 3               |
| KUE 316 KKUE  | 6419410200315 | 16 A                | 3HP      | 10HP     | 7.5HP    | 0.418 / 0.19   | Toggle disconnect switch + rectangle front plate | 3               |
| KUE 316 RKUE  | 6419410200377 | 16 A                | 3HP      | 10HP     | 7.5HP    | 0.418 / 0.19   | Toggle disconnect switch + round front plate     | 3               |
| KUE 325       | 6419410200407 | 25 A                | 5HP      | 15HP     | 10HP     | 0.374 / 0.17   | Toggle disconnect switch                         | 3               |
| KUE 325 KKUE  | 6419410200414 | 25 A                | 5HP      | 15HP     | 10HP     | 0.418 / 0.19   | Toggle disconnect switch + rectangle front plate | 3               |
| KUE 325 RKUE  | 6419410200476 | 25 A                | 5HP      | 15HP     | 10HP     | 0.418 / 0.19   | Toggle disconnect switch + round front plate     | 3               |
| KUE 340       | 6419410200506 | 40 A                | 7.5HP    | 20HP     | 15HP     | 0.374 / 0.17   | Toggle disconnect switch                         | 3               |
| KUE 340 KKUE  | 6419410200513 | 40 A                | 7.5HP    | 20HP     | 15HP     | 0.418 / 0.19   | Toggle disconnect switch + rectangle front plate | 3               |
| KUE 340 RKUE  | 6419410200544 | 40 A                | 7.5HP    | 20HP     | 15HP     | 0.418 / 0.19   | Toggle disconnect switch + round front plate     | 3               |
| KUE 363       | 6419410200605 | 60 A                | 10HP     | 25HP     | 25HP     | 0.396 / 0.18   | Toggle disconnect switch                         | 3               |
| KUE 363 KKUE  | 6419410200612 | 60 A                | 10HP     | 25HP     | 25HP     | 0.441 / 0.2    | Toggle disconnect switch + rectangle front plate | 3               |
| KUE 363 RKUE  | 6419410200674 | 60 A                | 10HP     | 25HP     | 25HP     | 0.441 / 0.2    | Toggle disconnect switch + round front plate     | 3               |
| KUE 380       | 6419410200704 | 80 A                | 15HP     | 30HP     | 30HP     | 0.396 / 0.18   | Toggle disconnect switch                         | 3               |
| KUE 380 KKUE  | 6419410200711 | 80 A                | 15HP     | 30HP     | 30HP     | 0.441 / 0.2    | Toggle disconnect switch + rectangle front plate | 3               |
| KUE 380 RKUE  | 6419410200742 | 80 A                | 15HP     | 30HP     | 30HP     | 0.441 / 0.2    | Toggle disconnect switch + round front plate     | 3               |
| EVA 380 KEVA  | 6419410202463 | 80 A                | 15HP     | 30HP     | 40HP     | 1.19 / 0.54    | Toggle disconnect switch + rectangle front plate | 3               |
| EVA 3100 KEVA | 6419410202470 | 100 A               | 20HP     | 40HP     | 50HP     | 1.19 / 0.54    | Toggle disconnect switch + rectangle front plate | 3               |
| EVA 3125 KEVA | 6419410202517 | 125 A               | 25HP     | 50HP     | 60HP     | 1.19 / 0.54    | Toggle disconnect switch + rectangle front plate | 3               |
| EVA 3160 KEVA | 6419410203019 | 150 A               | 30HP     | 60HP     | 75HP     | 1.19 / 0.54    | Toggle disconnect switch + rectangle front plate | 3               |

## CHANGE-OVER SWITCHES 16-800 A ROTARY SWITCHES LOADSAFE KU SERIES

### GENERAL CHARACTERISTICS

- Consists of two 3 or 4-pole switches and a change-over kit
- For KU 16 - 160 A it is possible to assemble change-over switches retrospectively from two 3 or 4-pole switches and a kit
- KU 160 A (Performance) and KU 200 - 800 A are only available as a factory assembled change-over switch
- Switch technology by means of silver contacts ensures safe and durable operation
- All versions are operable with direct handle or external handle and shaft. For KU 16 - 160 purchase shaft and external handle separately when needed. For KU 160 A (Performance) and KU 200 - 800 A external handle and shaft are included.
- KU 16 - 80 A & 125 A (N) use a snap-on auxiliary contact, available in 1NO/1NC or 2NO/2NC
- KU 100 - 800 A use a side-mountable auxiliary contact, available in 1NO/1NC or 2NO/2NC. It is possible to mount two auxiliary contacts on each side making the maximum amount of contacts as 8NO/8NC

### ASSEMBLY EXAMPLE KU 3160 CO CHANGE-OVER SWITCH

#### 2 x KU 3160 LOAD BREAK SWITCHES

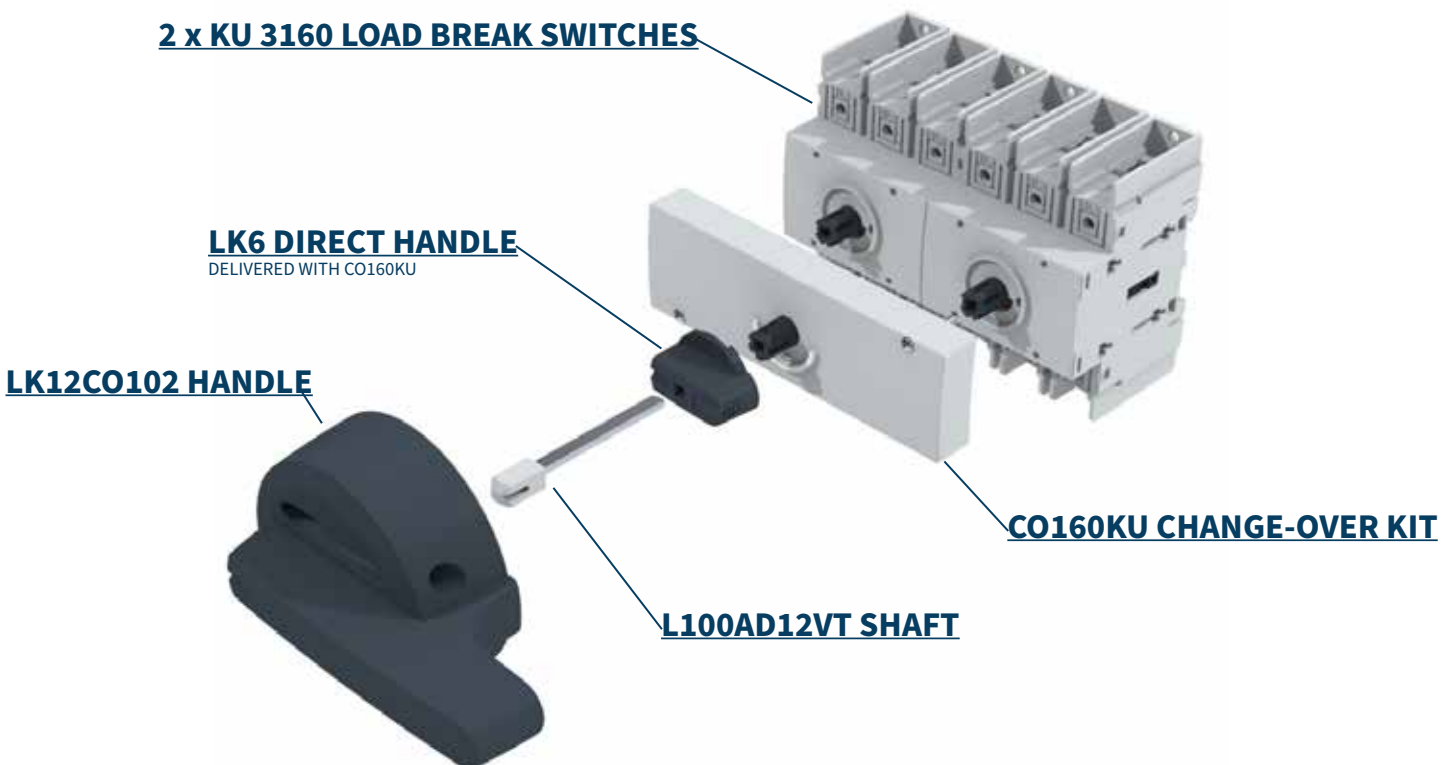
#### LK6 DIRECT HANDLE

DELIVERED WITH CO160KU

#### LK12CO102 HANDLE

#### CO160KU CHANGE-OVER KIT

#### L100AD12VT SHAFT



## CHANGE-OVER SWITCHES 16-125 A ROTARY SWITCHES LOADSAFE KU SERIES



Image:  
KU 440 VV  
Consists of:  
2 x KU 440N  
1 x KUVV

### KU 16 - 80 A & 125 A (N) SPECIFIC CHARACTERISTICS

- Compact design
- Consists of two 3 or 4-pole switches and a change-over kit
- Switch technology by means of silver contacts ensures safe and durable operation

### CHANGE-OVER CONFIGURATIONS

- Consists of:  
2 x 3 or 4-pole KU switches  
1 x Change over kit:  
KUVV or KUVVYR  
Optional:  
1 x External handle for change-over  
1 x Shaft

## SWITCHES

| Type      | EAN           | E-number | AC-23A 400/415 V (A) | AC-23A 400/415 V (kW) | AC-23A 690 V (A) | AC-23A 690 V (kW) | Switch Type        | Number of Poles |
|-----------|---------------|----------|----------------------|-----------------------|------------------|-------------------|--------------------|-----------------|
| KU 316VV  | 6419410205914 | 3609256  | 16                   | 7,5                   | 16               | 11                | Change-over switch | 3               |
| KU 325VV  | 6419410226704 | 3609257  | 25                   | 11                    | 25               | 22                | Change-over switch | 3               |
| KU 340VV  | 6419410226711 | 3609258  | 32                   | 15                    | 32               | 30                | Change-over switch | 3               |
| KU 363VV  | 6419410226773 | 3609259  | 40                   | 22                    | 40               | 37                | Change-over switch | 3               |
| KU 380VV  | 6419410226728 | 3609260  | 63                   | 30                    | 40               | 37                | Change-over switch | 3               |
| KU 3125VV | 6419410226759 | 3609261  | 63                   | 30                    | 40               | 37                | Change-over switch | 3               |
| KU 416VV  | 6419410205921 | 3609262  | 16                   | 7,5                   | 16               | 11                | Change-over switch | 4               |
| KU 425VV  | 6419410226797 | 3609263  | 25                   | 11                    | 25               | 22                | Change-over switch | 4               |
| KU 440VV  | 6419410226735 | 3609264  | 32                   | 15                    | 32               | 30                | Change-over switch | 4               |
| KU 463VV  | 6419410226780 | 3620275  | 40                   | 22                    | 40               | 37                | Change-over switch | 4               |
| KU 480VV  | 6419410226742 | 3602956  | 63                   | 30                    | 40               | 37                | Change-over switch | 4               |
| KU 4125VV | 6419410226766 | 3602957  | 63                   | 30                    | 40               | 37                | Change-over switch | 4               |



## RELATED ACCESSORIES

| Type        | Accessory       | Description                     | For               | EAN           | E-number |
|-------------|-----------------|---------------------------------|-------------------|---------------|----------|
| L100AD11    | Shaft           | Length 100 mm, aluminium        | 3, 4, 6 or 8-pole | 6419410253106 | 3662291  |
| L200AD11    | Shaft           | Length 200 mm, aluminium        | 3, 4, 6 or 8-pole | 6419410253113 | 3662292  |
| L300AD11    | Shaft           | Length 300 mm, aluminium        | 3, 4, 6 or 8-pole | 6419410253120 | 3662293  |
| L100AD11VT  | Shaft           | Length 100 mm, steel, slanted   | 3, 4, 6 or 8-pole | 6419410253168 | 3600231  |
| L200AD11VT  | Shaft           | Length 200 mm, steel, slanted   | 3, 4, 6 or 8-pole | 6419410253175 | 3600271  |
| L300AD11VT  | Shaft           | Length 300 mm, steel, slanted   | 3, 4, 6 or 8-pole | 6419410253182 | 3600272  |
| KUVV        | Change-over kit | Positions 1, 0, 2, black handle | 3 or 4-pole       | 6419410221624 | 3600216  |
| KUVVYR      | Change-over kit | Positions 1, 0, 2, red handle   | 3 or 4-pole       | 6419410221631 | 3600217  |
| LK11CO102   | Handle          | Black                           | Change-over       | 6419410222621 | 3600957  |
| LK11CO102YR | Handle          | Yellow/red                      | Change-over       | 6419410222638 | 3609265  |

## CHANGE-OVER SWITCHES 100-160 A ROTARY SWITCHES LOADSAFE KU SERIES



Image:  
KU 3160 CO  
Consists of:  
2 x KU 4-pole  
1 x CO160KU

### KU 100 - 160 A SPECIFIC CHARACTERISTICS

- Consists of two 3 or 4-pole switches and a change-over kit
- Switch technology by means of silver contacts ensures safe and durable operation
- Modular structure
- Auxiliary contacts can be installed on either or both sides

### CHANGE-OVER CONFIGURATIONS

- Consists of
  - 2 x 3 or 4-pole KU switches
  - 1 x CO160KU change-over kit
- Optional:
  - 1 x External LK12 handle for change-over
  - 1 x Shaft (AD12VT)

## SWITCHES

| Type      | EAN           | E-number | AC-23A 400/415 V (A) | AC-23A 400/415 V (kW) | AC-23A 690 V (A) | AC-23A 690 V (kW) | Weight (kg) | Switch Type        | Number of Poles |
|-----------|---------------|----------|----------------------|-----------------------|------------------|-------------------|-------------|--------------------|-----------------|
| KU 3100CO | 6419410203583 | 3600800  | 100                  | 55                    | 63               | 55                | 0,97        | Change-over Switch | 3               |
| KU 3125CO | 6419410203590 | 3600805  | 125                  | 55                    | 80               | 75                | 0,97        | Change-over Switch | 3               |
| KU 3160CO | 6419410203606 | 3600810  | 160                  | 90                    | 100              | 90                | 0,97        | Change-over Switch | 3               |
| KU 4100CO | 6419410203613 | 3600811  | 100                  | 55                    | 63               | 55                | 1,18        | Change-over Switch | 4               |
| KU 4125CO | 6419410203620 | 3600812  | 125                  | 55                    | 80               | 75                | 1,18        | Change-over Switch | 4               |
| KU 4160CO | 6419410203637 | 3600813  | 160                  | 90                    | 100              | 90                | 1,18        | Change-over Switch | 4               |



## ACCESSORIES

| Type        | Accessory         | Description                   | For                                     | EAN           | E-number |
|-------------|-------------------|-------------------------------|-----------------------------------------|---------------|----------|
| CO160KU     | Change-over Kit   | Change-over kit               | For 2 x 3- or 4-pole switches           | 6419410203651 | 3600815  |
| 1V160KU     | Auxiliary contact | 1NO/1NC                       | For all configurations                  | 6419410300022 | 3600819  |
| 2V160KU     | Auxiliary contact | 2NO/2NC                       | For all configurations                  | 6419410300114 | 3600825  |
| LS160       | Cover             | Terminal cover for 3P         | For all configurations. Covers 3 poles. | 6419410203699 | 3600817  |
| LSN160      | Cover             | Terminal cover for 4th pole   | 4- & 8-pole and 4-pole change-over      | 6419410203705 | 3600818  |
| L100AD12VT  | Shaft             | Length 100 mm, steel, slanted | With LK12 handle                        | 6419410253076 | 3600938  |
| L200AD12VT  | Shaft             | Length 200 mm, steel, slanted | With LK12 handle                        | 6419410253083 | 3600922  |
| L300AD12VT  | Shaft             | Length 300 mm, steel, slanted | With LK12 handle                        | 6419410253090 | 3600917  |
| LK12CO102   | Handle            | Black                         | Change-over                             | 6419410222881 | 3600916  |
| LK12CO102YR | Handle            | Yellow/red                    | Change-over                             | 6419410222744 | 3609266  |

## CHANGE-OVER SWITCHES 160-250 A ROTARY SWITCHES LOADSAFE KU SERIES



Image:

KU 4250CO SV



### KU 200 - 250 A & 160 A PERFORMANCE (P) SPECIFIC CHARACTERISTICS

- Consists of two 3 or 4-pole switches
- Modular structure
- Made of 100% recyclable plastic
- Auxiliary contacts can be installed on either or both sides
- 160 (P) model is an option for Katko's regular 160 A switch and suitable for industrial applications

### CHANGE-OVER CONFIGURATIONS

- Change-over configuration:  
2 x 3 or 4-pole KU switches  
Direct handle or external handle and shaft

## SWITCHES

| Type                                                           | EAN           | E-number | AC-23A 690 V (A) | AC-23A 690 V (kW) | Weight (kg) | Operation       | Switch Type        | Number of Poles |
|----------------------------------------------------------------|---------------|----------|------------------|-------------------|-------------|-----------------|--------------------|-----------------|
| With external handle (LKX 100 1-0-2) and shaft (L=200 AD12/T6) |               |          |                  |                   |             |                 |                    |                 |
| KU 3200WCO L200AD12T6LKX100                                    | 6419410205273 | 3602992  | 200              | 160               | 2,1         | External handle | Change-over Switch | 3               |
| KU 3250WCO L200AD12T6LKX100                                    | 6419410205280 | 3602993  | 250              | 250               | 2,1         | External handle | Change-over Switch | 3               |
| KU 4200WCO L200AD12T6LKX100                                    | 6419410205297 | 3602994  | 200              | 160               | 2,6         | External handle | Change-over Switch | 4               |
| KU 4250WCO L200AD12T6LKX100                                    | 6419410205303 | 3602995  | 250              | 250               | 2,6         | External handle | Change-over Switch | 4               |
| KU 3160PWCO L200AD12T6LKX100                                   | 6419410205501 | 3609227  | 160              | 132               | 2,1         | External handle | Change-over Switch | 3               |
| KU 4160PWCO L200AD12T6LKX100                                   | 6419410205518 | 3609228  | 160              | 132               | 2,6         | External handle | Change-over Switch | 4               |
| With direct handle                                             |               |          |                  |                   |             |                 |                    |                 |
| KU 3200WCO SV                                                  | 6419410205358 | 3609212  | 200              | 160               | 2,1         | Direct handle   | Change-over Switch | 3               |
| KU 3250WCO SV                                                  | 6419410205365 | 3609213  | 250              | 250               | 2,1         | Direct handle   | Change-over Switch | 3               |
| KU 4200WCO SV                                                  | 6419410205372 | 3609214  | 200              | 160               | 2,6         | Direct handle   | Change-over Switch | 4               |
| KU 4250WCO SV                                                  | 6419410205389 | 3609215  | 250              | 250               | 2,6         | Direct handle   | Change-over Switch | 4               |
| KU 3160PWCO SV                                                 | 6419410205563 | 3609233  | 160              | 132               | 2,1         | Direct handle   | Change-over Switch | 3               |
| KU 4160PWCO SV                                                 | 6419410205570 | 3609234  | 160              | 132               | 2,6         | Direct handle   | Change-over Switch | 4               |

## RELATED ACCESSORIES

| Type          | Accessory         | Description                         | For                                          | EAN           | E-number |
|---------------|-------------------|-------------------------------------|----------------------------------------------|---------------|----------|
| LKX100CO102   | Handle            | Black handle, 1-0-2 positions       | Change-over                                  | 6419410484708 | 3609267  |
| LKX100CO102YR | Handle            | Yellow/red handle, 1-0-2 positions  | Change-over                                  | 6419410484722 | 3609268  |
| LS250H        | Terminal cover    | 1-pole terminal cover. High model.  | Use with vertical (VB & VM) cable connectors | 6419410205419 | 3609218  |
| LS250F        | Terminal cover    | 1-pole terminal cover. Flush model. | Use with regular cable connectors            | 6419410205402 | 3609217  |
| VS250         | Phase Barrier     | Phase barrier                       | For all configurations                       | 6419410205396 | 3609216  |
| L200AD12T6    | Shaft             | Length 200 mm, 6 mm steel shaft     | For all configurations                       | 6419410271063 | 3609237  |
| 1V160KU       | Auxiliary contact | 1NO/1NC                             | For all configurations                       | 6419410300022 | 3600819  |
| 2V160KU       | Auxiliary contact | 2NO/2NC                             | For all configurations                       | 6419410300114 | 3600825  |



## CHANGE-OVER SWITCHES 315 - 400 A ROTARY SWITCHES LOADSAFE KU SERIES



Image:  
KU 3400CO SV

### KU 315 - 400 A SPECIFIC CHARACTERISTICS

- Consists of two 3 or 4-pole switches
- Modular structure
- Made of 100% recyclable plastic
- Auxiliary contacts can be installed on either or both sides

### CHANGE-OVER CONFIGURATIONS

- Change-over configuration:  
2 x 3 or 4-pole KU switches  
Direct handle or external handle and shaft

## SWITCHES

| Type                                                  | EAN           | E-number | AC-23A 690 V (A) | AC-23A 690 V (kW) | Weight (kg) | Operation       | Switch Type        | Number of Poles |
|-------------------------------------------------------|---------------|----------|------------------|-------------------|-------------|-----------------|--------------------|-----------------|
| With external handle (LKX150CO102) and shaft (LVK228) |               |          |                  |                   |             |                 |                    |                 |
| KU 3315CO LVK228LKX150                                | 6419410300244 | 3602931  | 315              | 315               | 5,364       | External handle | Change-over Switch | 3               |
| KU 3400CO LVK228LKX150                                | 6419410300251 | 3602932  | 400              | 355               | 5,364       | External handle | Change-over Switch | 3               |
| KU 4315CO LVK228LKX150                                | 6419410300268 | 3602933  | 315              | 315               | 6,422       | External handle | Change-over Switch | 4               |
| KU 4400CO LVK228LKX150                                | 6419410300275 | 3602934  | 400              | 355               | 6,422       | External handle | Change-over Switch | 4               |
| With direct handle                                    |               |          |                  |                   |             |                 |                    |                 |
| KU 3315CO SV                                          | 6419410300336 | 3602939  | 315              | 315               | 5,364       | Direct handle   | Change-over Switch | 3               |
| KU 3400CO SV                                          | 6419410300343 | 3602940  | 400              | 355               | 5,364       | Direct handle   | Change-over Switch | 3               |
| KU 4315CO SV                                          | 6419410300350 | 3602941  | 315              | 315               | 6,422       | Direct handle   | Change-over Switch | 4               |
| KU 4400CO SV                                          | 6419410300367 | 3602942  | 400              | 355               | 6,422       | Direct handle   | Change-over Switch | 4               |

## ACCESSORIES

| Type          | Accessory         | Description                         | For                                          | EAN           | E-number |
|---------------|-------------------|-------------------------------------|----------------------------------------------|---------------|----------|
| LS400H        | Terminal cover    | 1-pole terminal cover. High model.  | Use with vertical (VB & VM) cable connectors | 6419410300398 | 3602945  |
| LS400F        | Terminal cover    | 1-pole terminal cover. Flush model. | Use with regular cable connectors            | 6419410300381 | 3602944  |
| VS400         | Phase Barrier     | Phase barrier                       | For all configurations                       | 6419410300374 | 3602943  |
| 1V160KU       | Auxiliary contact | 1NO/1NC                             | For all configurations                       | 6419410300022 | 3600819  |
| 2V160KU       | Auxiliary contact | 2NO/2NC                             | For all configurations                       | 6419410300114 | 3600825  |
| LVK228        | Shaft             | Length 228 mm, steel                | Delivered with external handle               | 6419410221440 | 3600348  |
| LKX150CO102   | Handle            | Black handle, 1-0-2 positions       | Change-over                                  | 6419410484715 | 3609269  |
| LKX150CO102YR | Handle            | Yellow/red handle, 1-0-2 positions  | Change-over                                  | 6419410484739 | 3609270  |



## CHANGE-OVER SWITCHES 630-800 A ROTARY SWITCHES LOADSAFE KU SERIES



Image:  
KU 3800CO



### KU 630 - 800 A SPECIFIC CHARACTERISTICS

- Consists of two 3 or 4-pole switches
- Modular structure
- Made of 100% recyclable plastic
- Auxiliary contacts can be installed on either or both sides

### CHANGE-OVER CONFIGURATIONS

- Change-over configuration:  
2 x 3 or 4-pole KU switches  
Direct handle or external handle and shaft

## SWITCHES

| Type                                                     | EAN           | E-number | AC-23A 690 V (A) | AC-23A 690 V (kW) | Weight (kg) | Operation       | Switch Type        | Number of Poles |
|----------------------------------------------------------|---------------|----------|------------------|-------------------|-------------|-----------------|--------------------|-----------------|
| With external handle (LKK 150 1-0-2) and shaft (LVK=228) |               |          |                  |                   |             |                 |                    |                 |
| KU 3630CO LVK228LKK150                                   | 6419410483701 | 3602846  | 630              | 630               | 8,985       | External handle | Change-over Switch | 3               |
| KU 3800CO LVK228LKK150                                   | 6419410483718 | 3602847  | 800              | 800               | 8,985       | External handle | Change-over Switch | 3               |
| KU 4630CO LVK228LKK150                                   | 6419410483725 | 3602848  | 630              | 630               | 11,185      | External handle | Change-over Switch | 4               |
| KU 4800CO LVK228LKK150                                   | 6419410483732 | 3602849  | 800              | 800               | 11,185      | External handle | Change-over Switch | 4               |
| With direct handle                                       |               |          |                  |                   |             |                 |                    |                 |
| KU 3630CO SV                                             | 6419410484036 | 3602887  | 630              | 630               | 8,985       | Direct handle   | Change-over Switch | 3               |
| KU 3800CO SV                                             | 6419410484043 | 3602888  | 800              | 800               | 8,985       | Direct handle   | Change-over Switch | 3               |
| KU 4630CO SV                                             | 6419410484050 | 3602889  | 630              | 630               | 11,185      | Direct handle   | Change-over Switch | 4               |
| KU 4800CO SV                                             | 6419410484067 | 3602890  | 800              | 800               | 11,185      | Direct handle   | Change-over Switch | 4               |

## ACCESSORIES

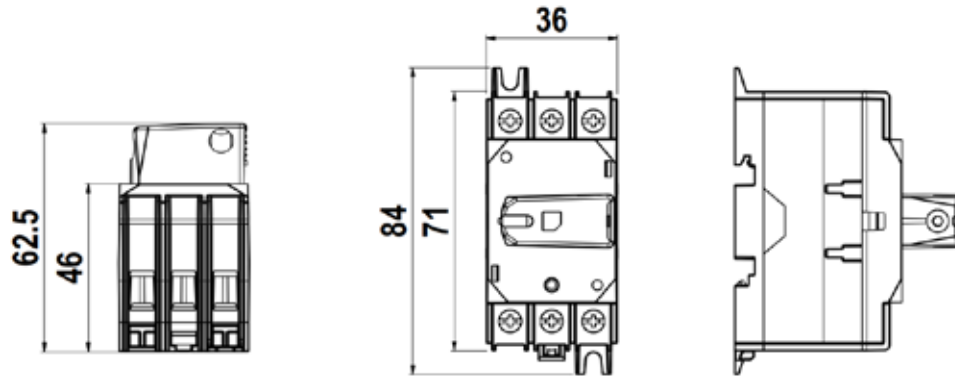
| Type          | Accessory         | Description                        | For                                          | EAN           | E-number |
|---------------|-------------------|------------------------------------|----------------------------------------------|---------------|----------|
| 1V160KU       | Auxiliary contact | 1NO/1NC                            | For all configurations                       | 6419410300022 | 3600819  |
| 2V160KU       | Auxiliary contact | 2NO/2NC                            | For all configurations                       | 6419410300114 | 3600825  |
| LVK228        | Shaft             | Length 228 mm, steel               | Delivered with external handle               | 6419410221440 | 3600348  |
| LKK150CO102   | Handle            | Black handle, 1-0-2 positions      | Change-over                                  | 6419410484715 | 3609269  |
| LKK150CO102YR | Handle            | Yellow/red handle, 1-0-2 positions | Change-over                                  | 6419410484739 | 3609270  |
| LS800F        | Terminal cover    | Terminal cover, low model          | Use with regular cable connectors            | 6419410484487 | 3602913  |
| LS800H        | Terminal cover    | Terminal cover, high model         | Use with vertical (VB & VM) cable connectors | 6419410484494 | 3602914  |
| VS800         | Phase barrier     | Phase barrier                      | For all configurations                       | 6419410483756 | 3602856  |



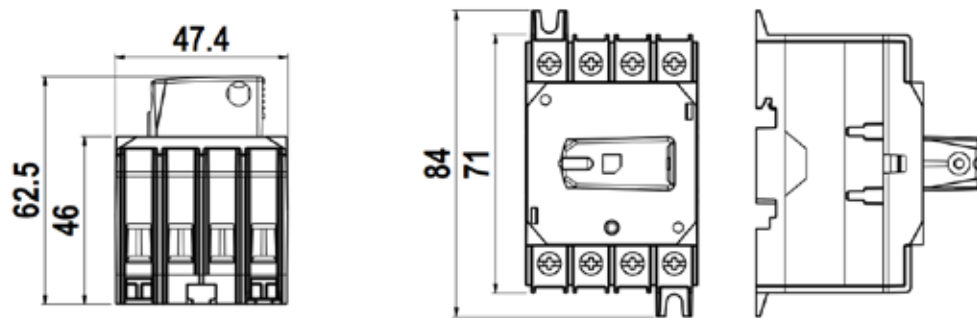


## DIMENSIONAL DRAWINGS

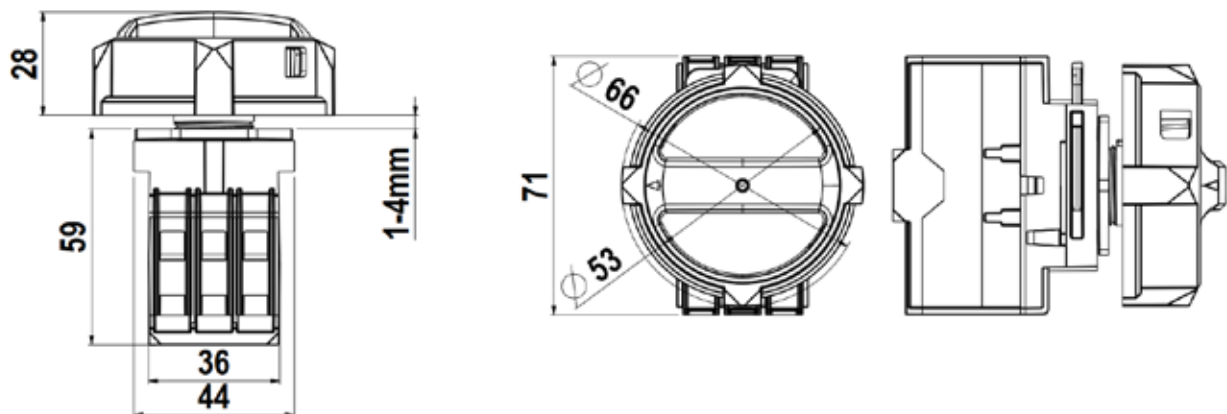
### KU 16-40 A & RT 16-40 A



### KU 3 POLE

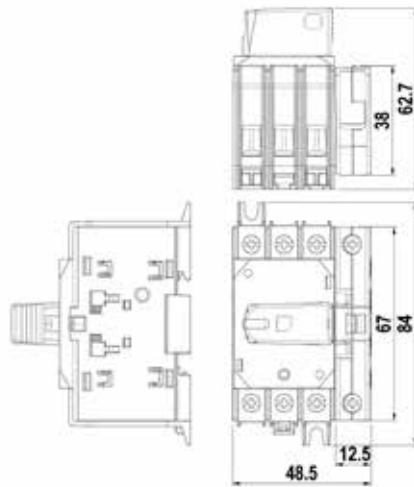


### KU 4 POLE

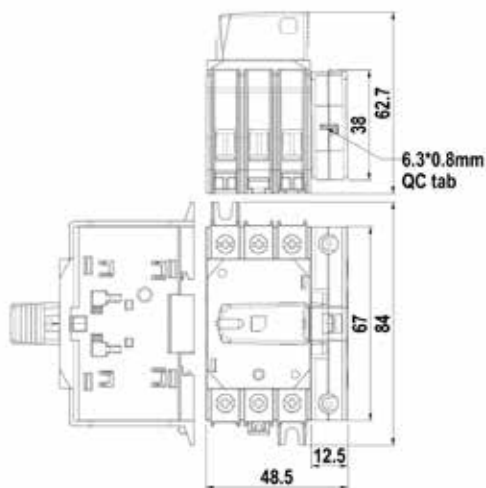


### RT 3 POLE WITH LKX50 / DOOR MOUNTING

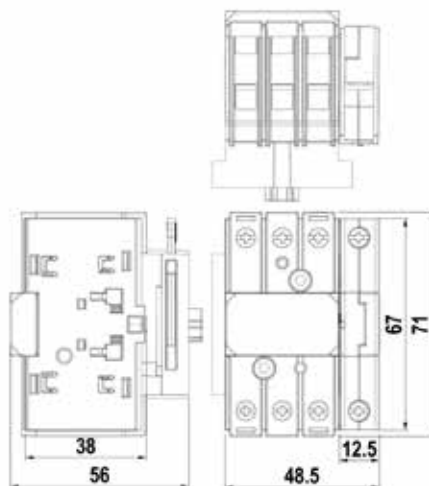
## DIMENSIONAL DRAWINGS KU 16-40 A & RT 16-40 A



### 1NO40KU/1NC40KU and 3-pole KU 340



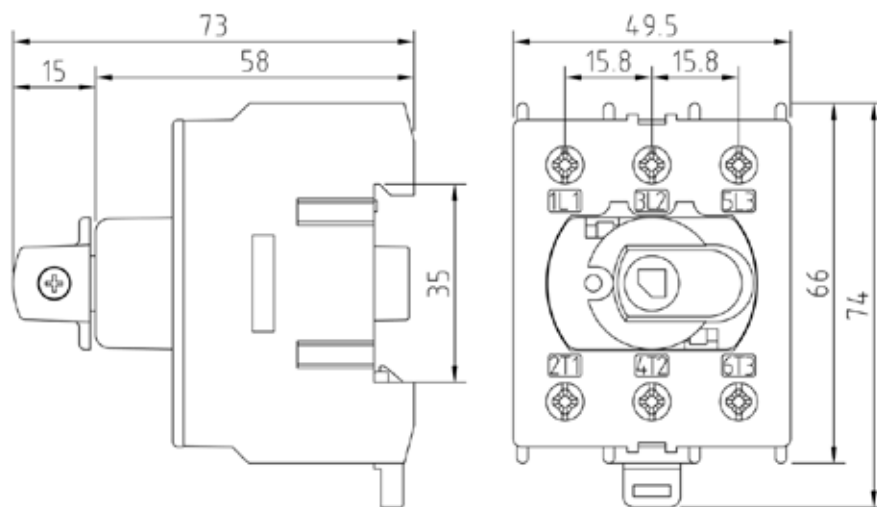
### 1NO40QC/1NC40QC and 3-pole KU 340



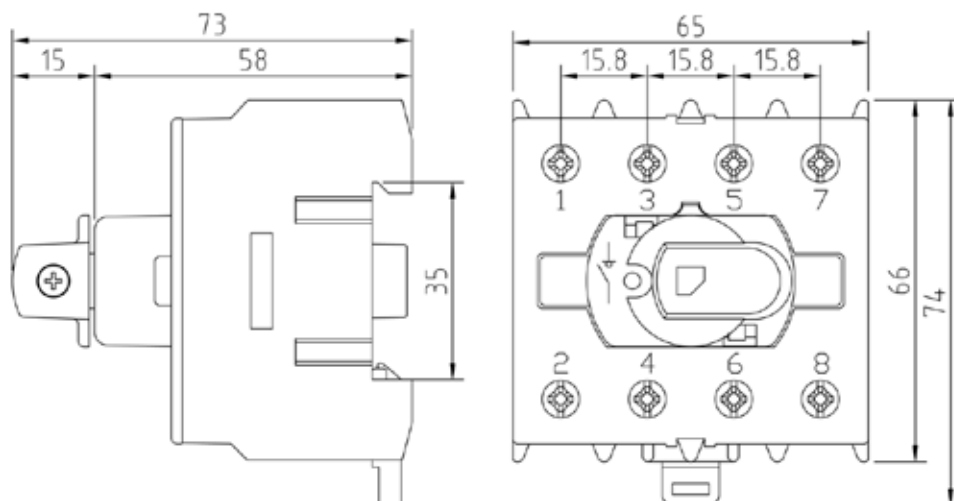
### 1NO40RT/1NC40RT and 3-pole RT 340

## DIMENSIONAL DRAWINGS

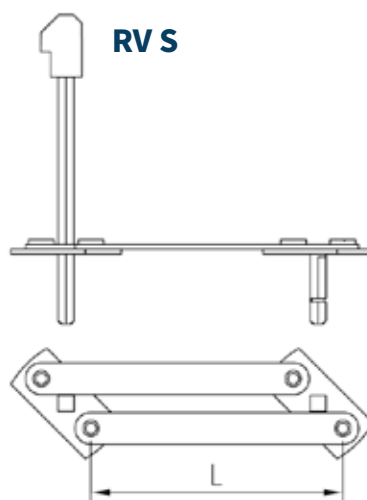
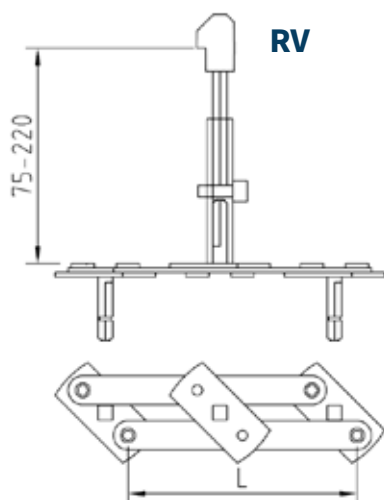
### KU 16-80 A & 125 A (N)



### KU 3 POLE (N)



### KU 4 POLE (N)



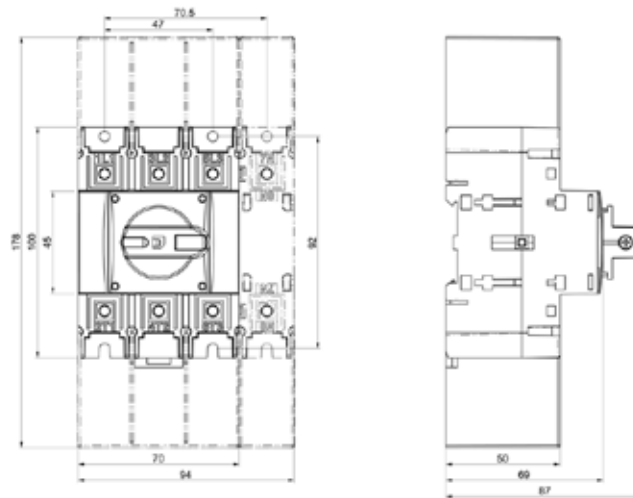
**KU 6-POLE**  
**LENGTH, L (mm)**  
**RV = 66**  
**RV S = 66**

**KU 8-POLE**  
**LENGTH, L (mm)**  
**RV = 80**  
**RV S = 80**

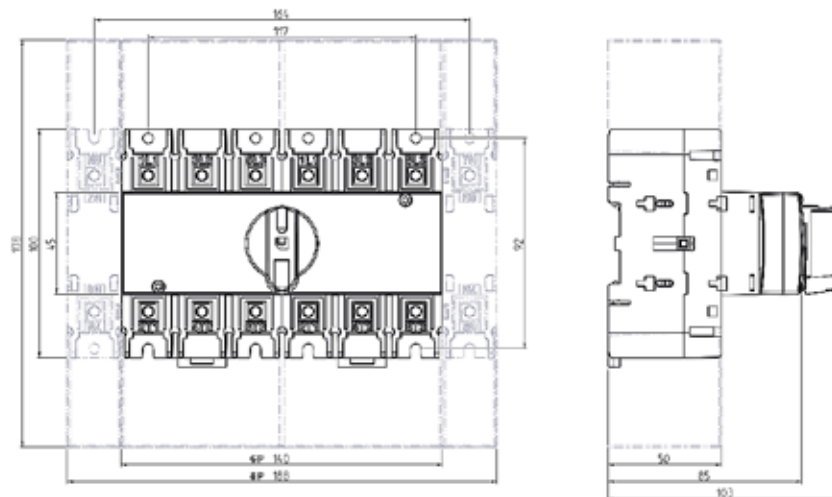
### KU 6-8 POLE (N) PARALLEL KIT

## DIMENSIONAL DRAWINGS

### KU 100-160 A



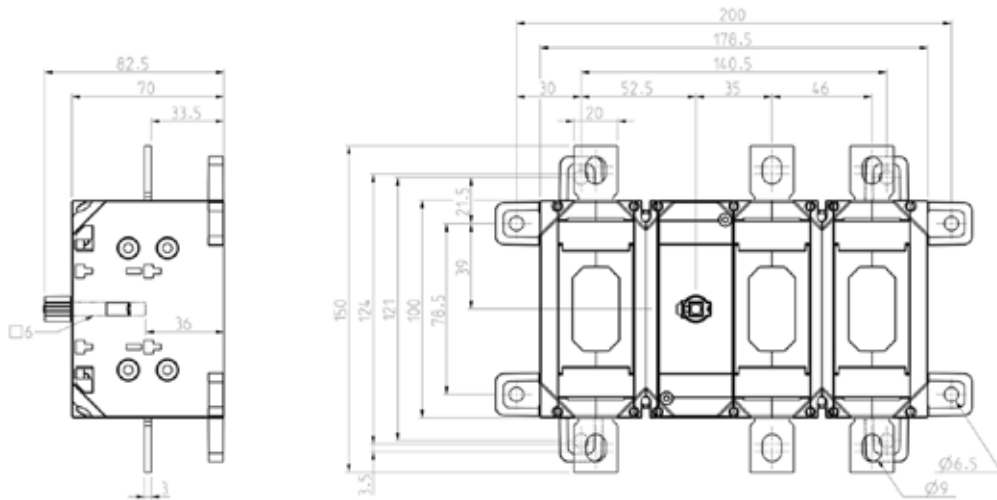
### KU 3-4 POLE, WITH TERMINAL COVERS



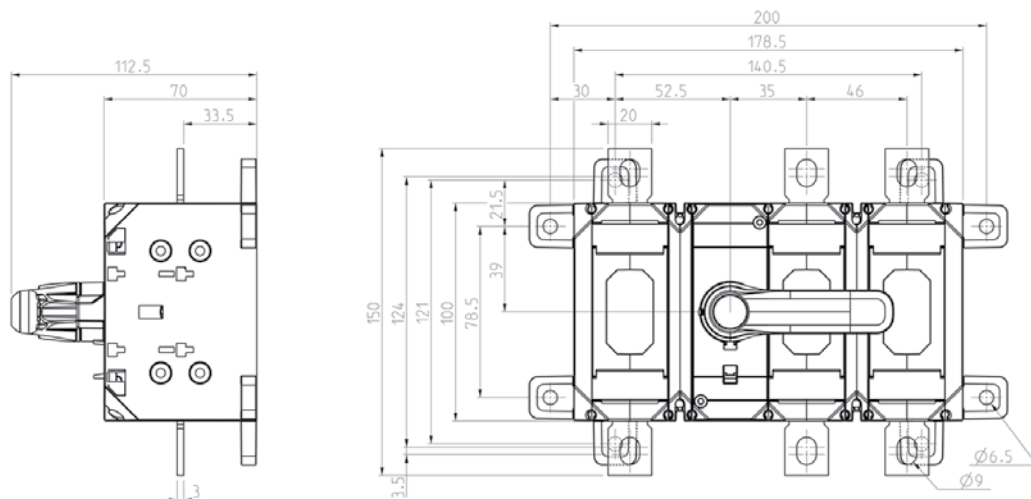
### KU 6-8 POLE, WITH TERMINAL COVERS

## DIMENSIONAL DRAWINGS

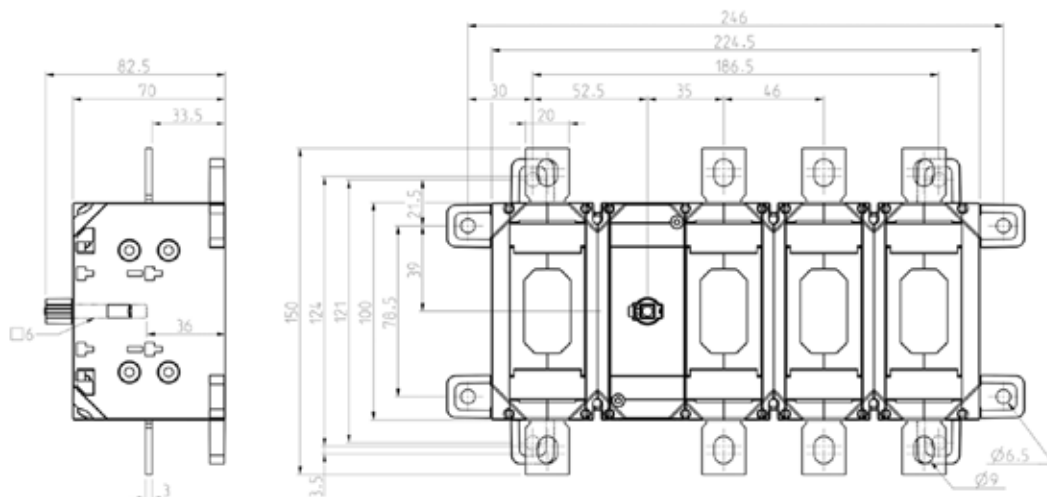
### KU 200-250A & 160A PERFORMANCE (P)



### KU 3 POLE (W)



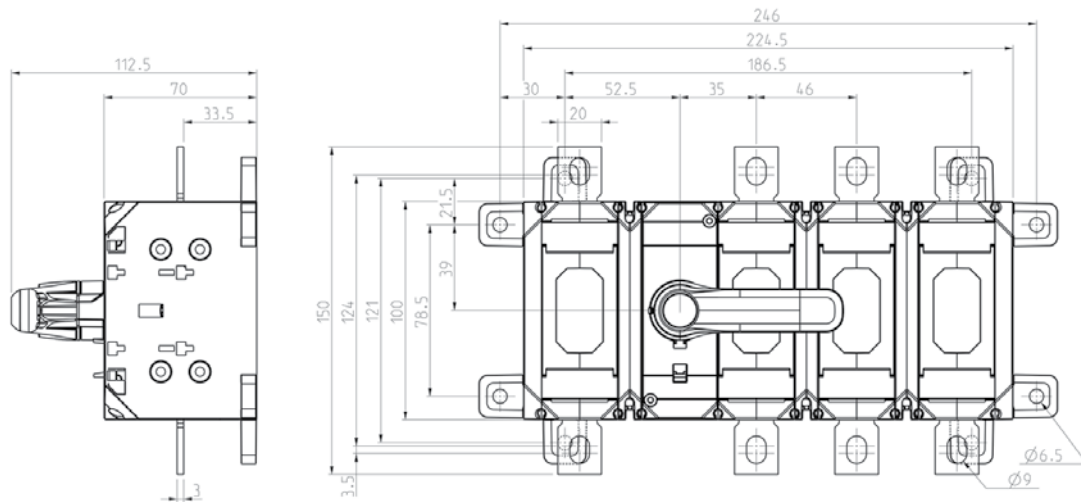
### KU 3 POLE, DIRECT HANDLE (W)



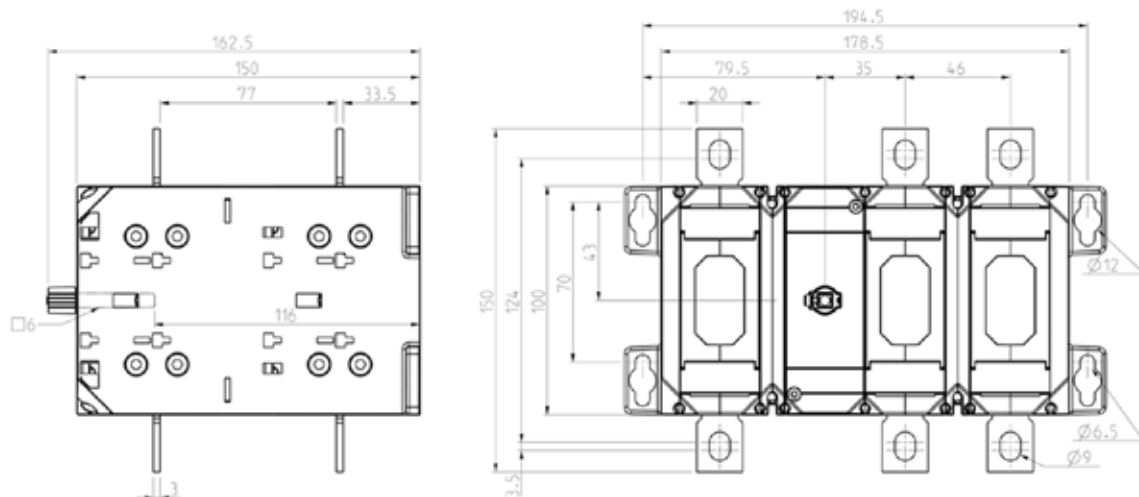
### KU 4 POLE (W)

## DIMENSIONAL DRAWINGS

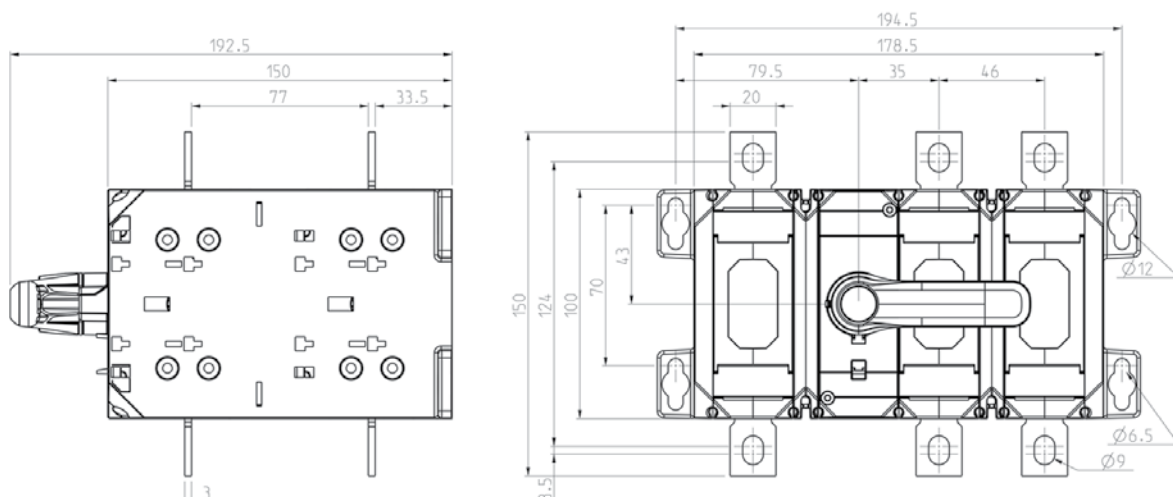
### KU 200-250A & 160A PERFORMANCE (P)



### KU 4 POLE, DIRECT HANDLE (W)



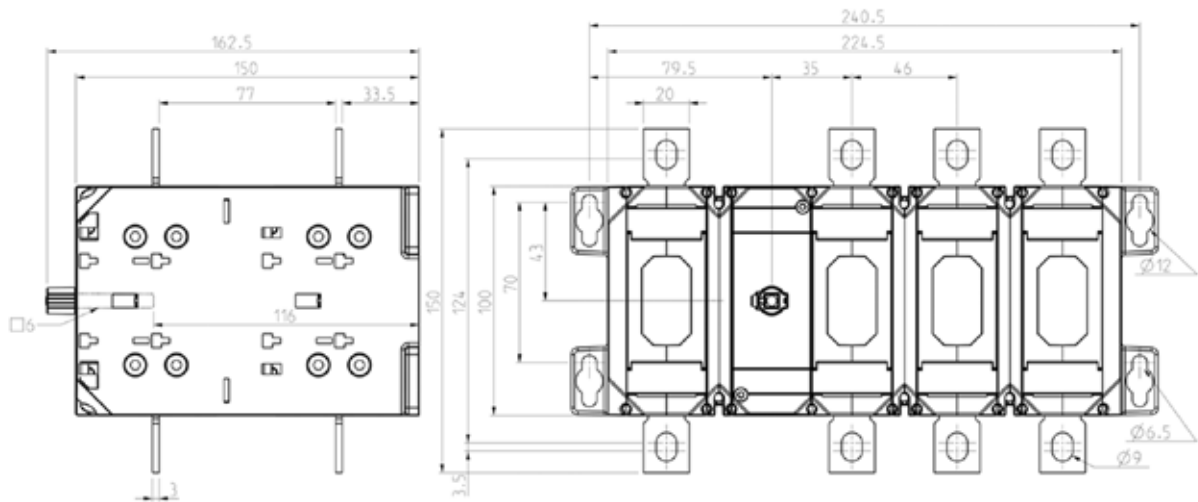
### KU 6 POLE (W)



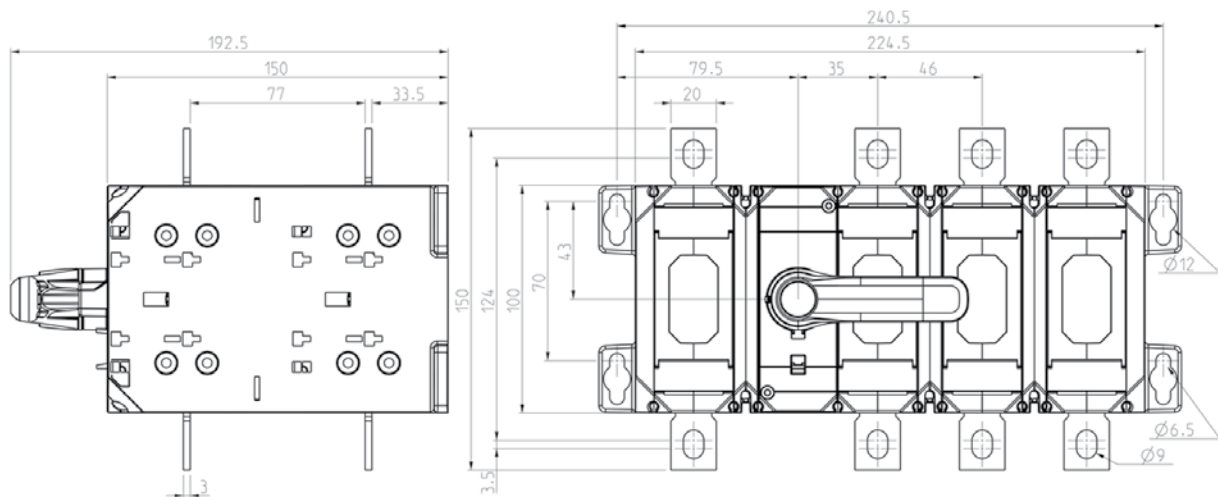
### KU 6 POLE, DIRECT HANDLE (W)

## DIMENSIONAL DRAWINGS

### KU 200-250A & 160A PERFORMANCE (P)



### KU 8 POLE (W)

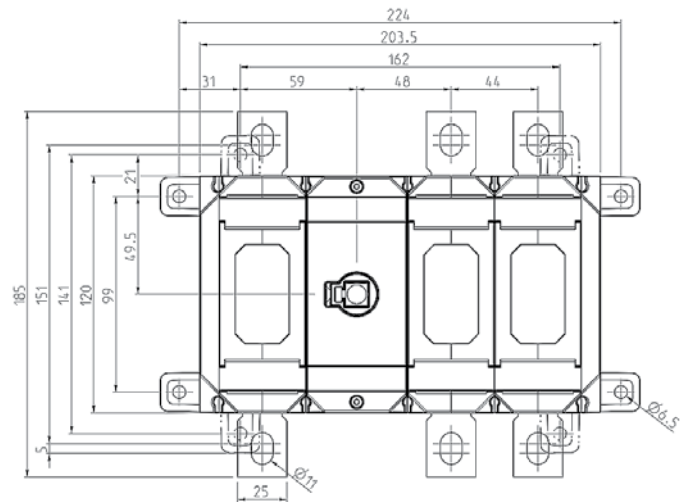
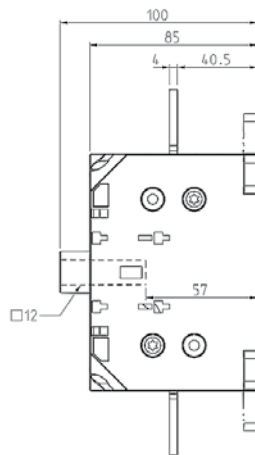


### KU 8 POLE, DIRECT HANDLE (W)

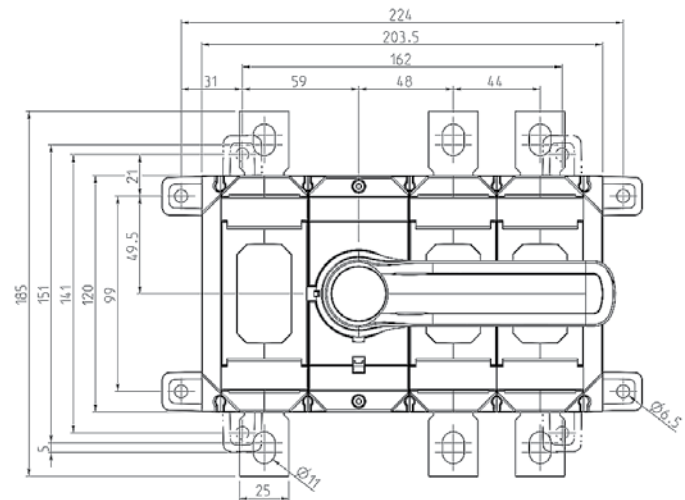
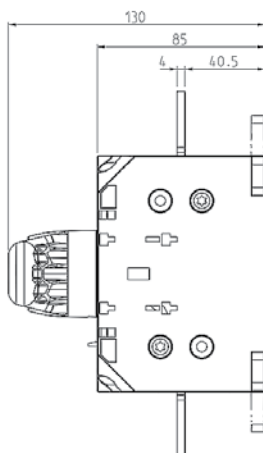


## DIMENSIONAL DRAWINGS

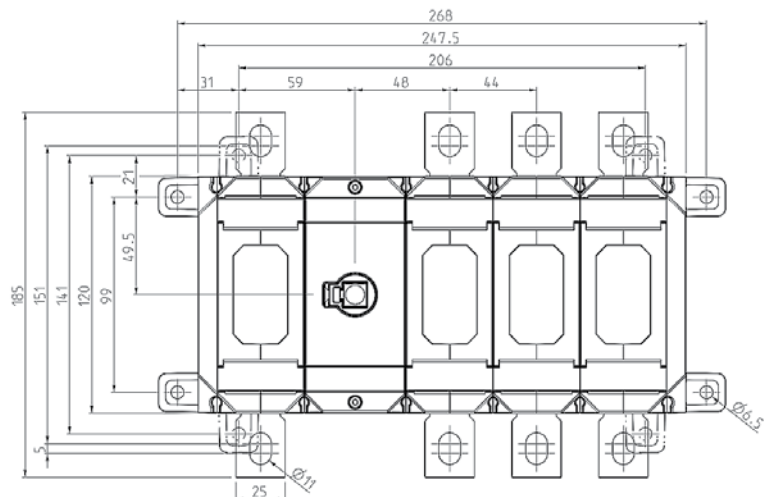
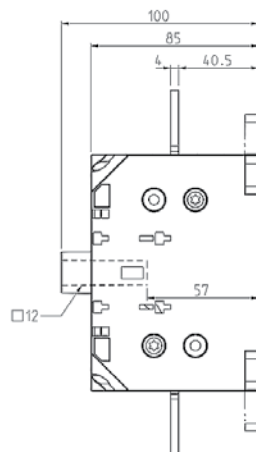
### KU 315-400A



### KU 3 POLE



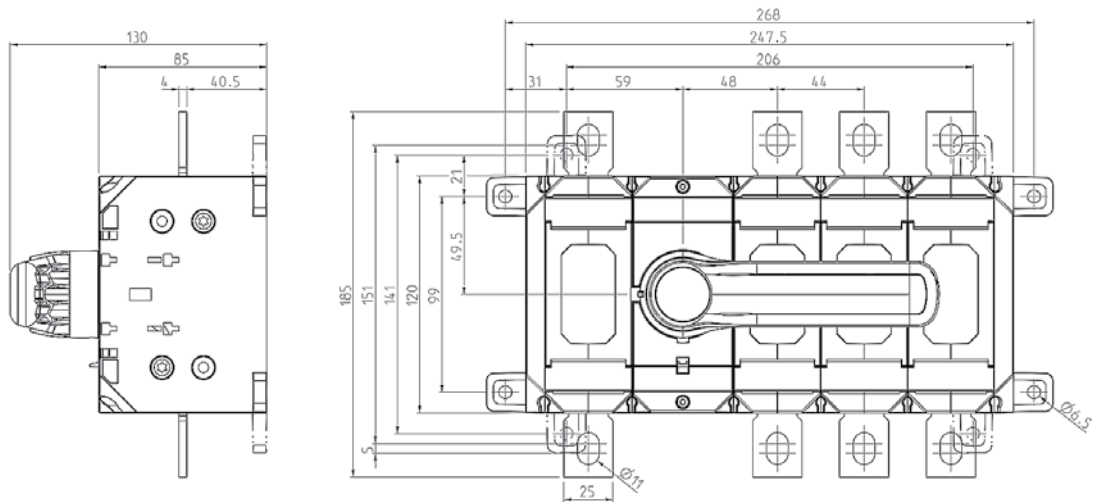
### KU 3 POLE, DIRECT HANDLE



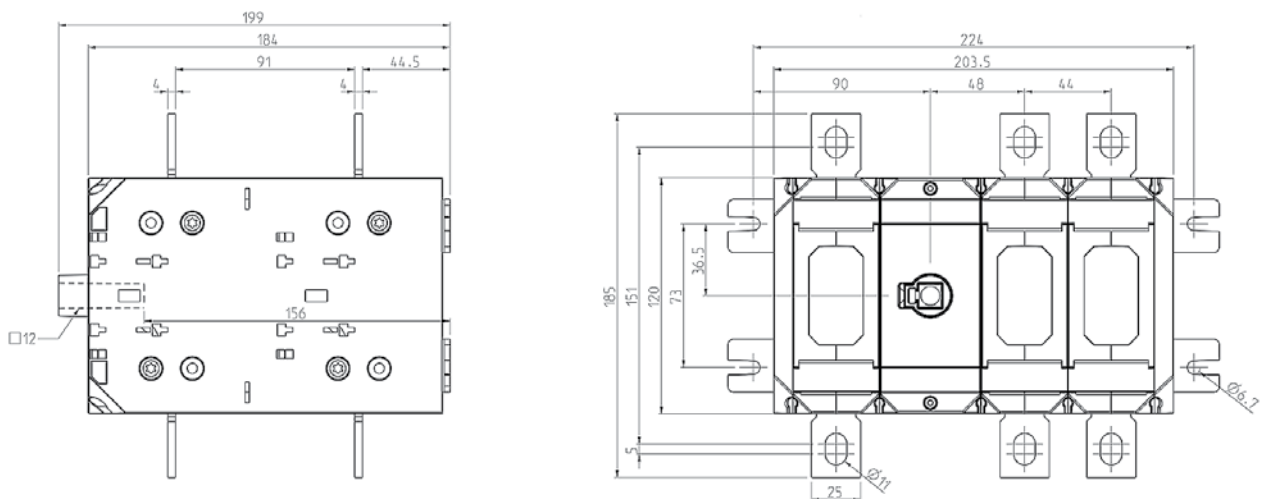
### KU 4 POLE

## DIMENSIONAL DRAWINGS

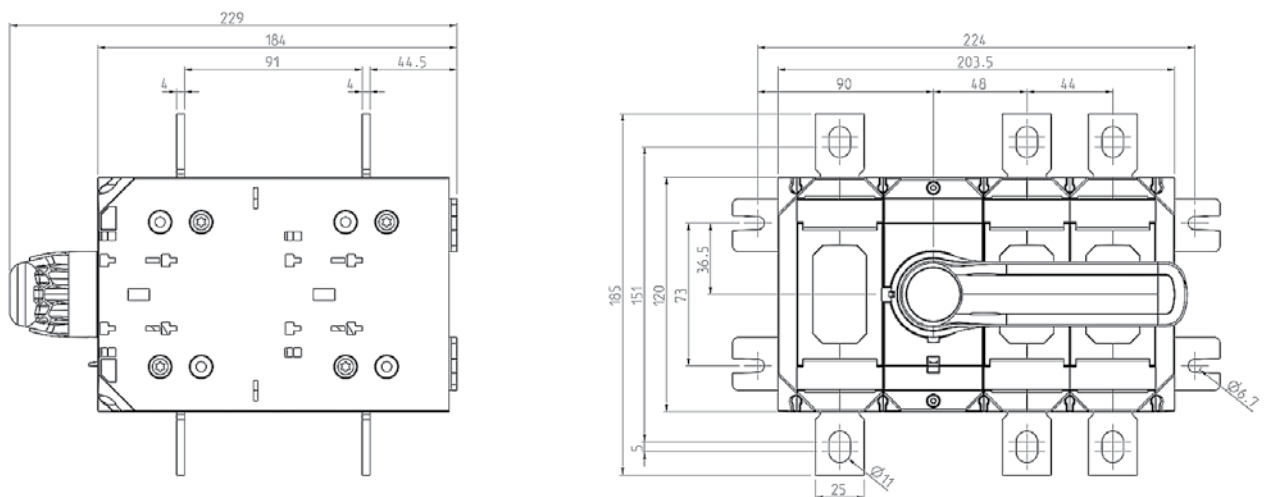
### KU 315-400A



### KU 4 POLE, DIRECT HANDLE



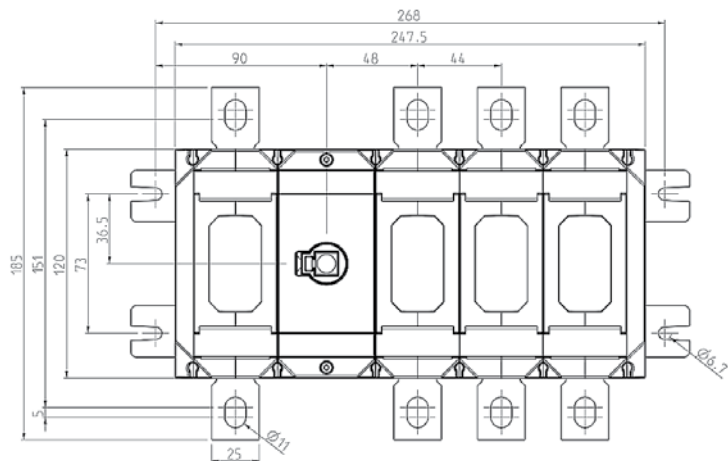
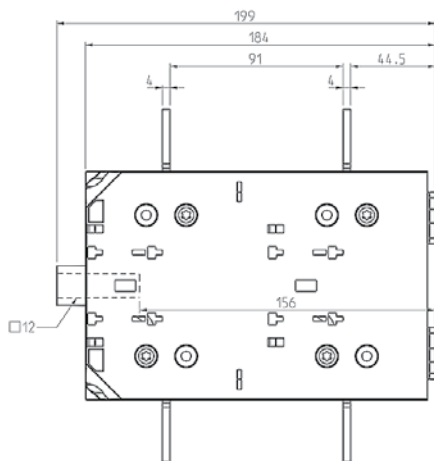
### KU 6 POLE



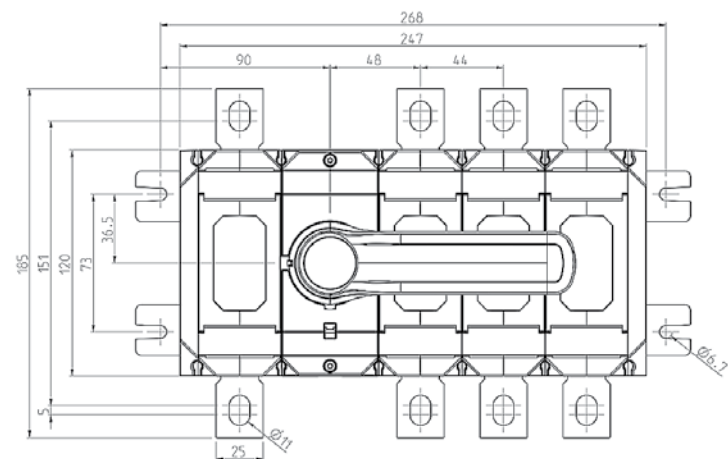
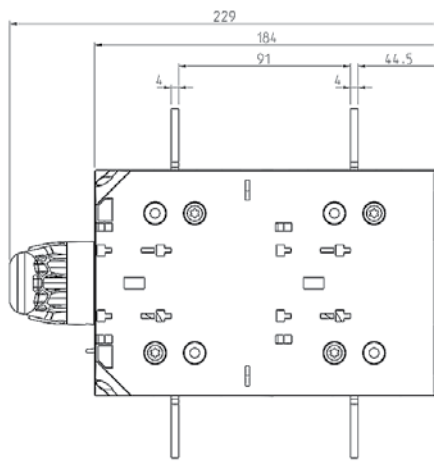
### KU 6 POLE, DIRECT HANDLE

## DIMENSIONAL DRAWINGS

### KU 315-400A



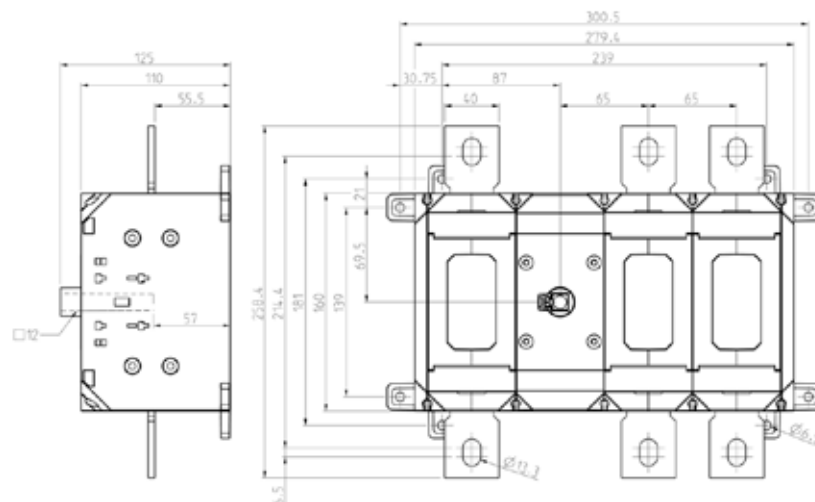
### KU 8 POLE



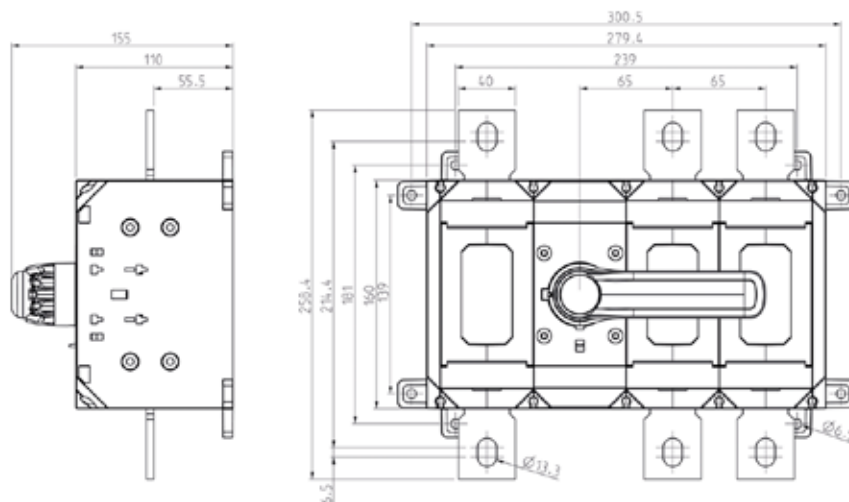
### KU 8 POLE, DIRECT HANDLE

## DIMENSIONAL DRAWINGS

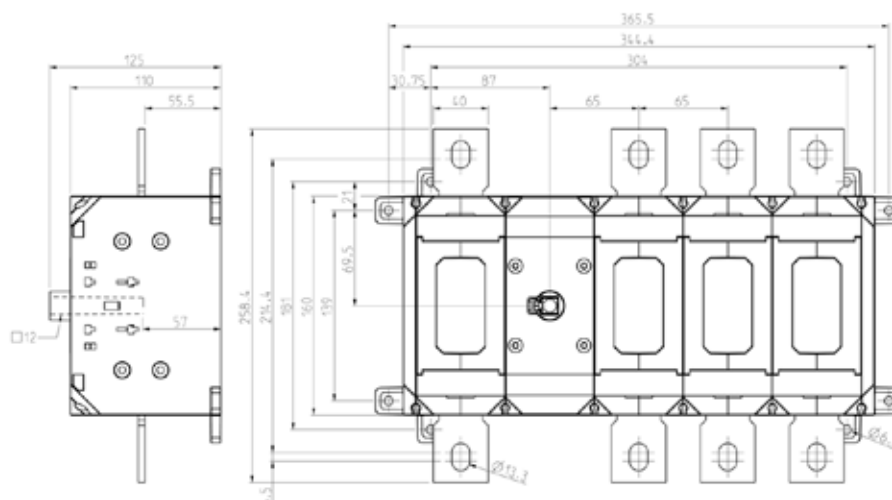
### KU 630-800A



### KU 3 POLE



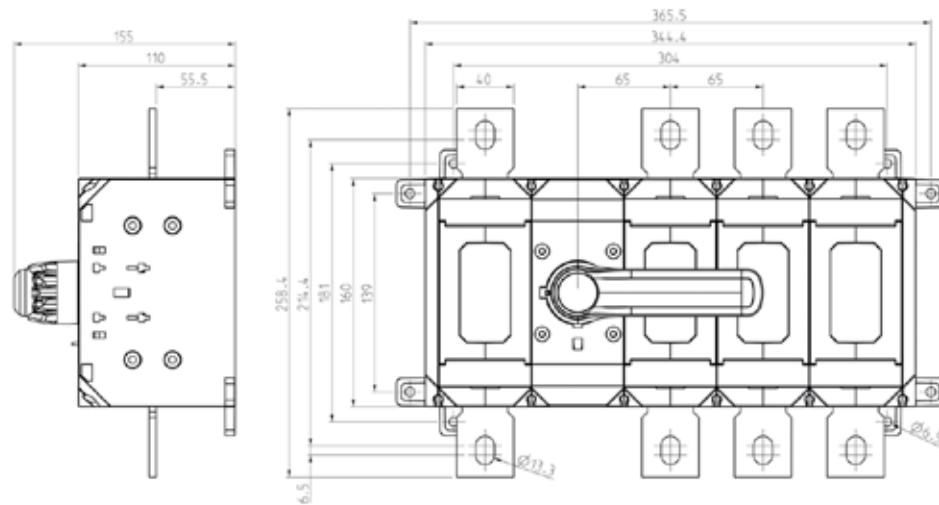
### KU 3 POLE SV



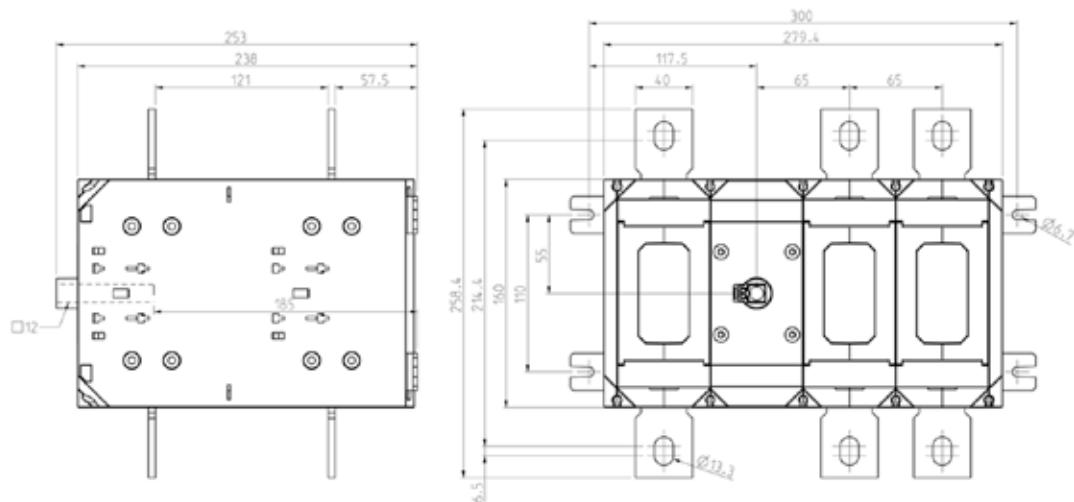
### KU 4 POLE

## DIMENSIONAL DRAWINGS

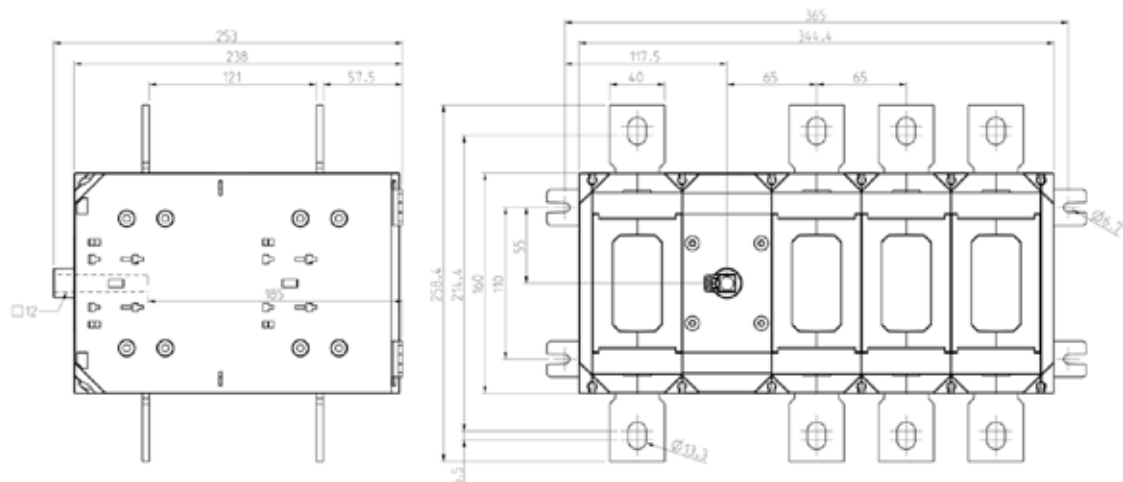
### KU 630-800A



### KU 4 POLE SV



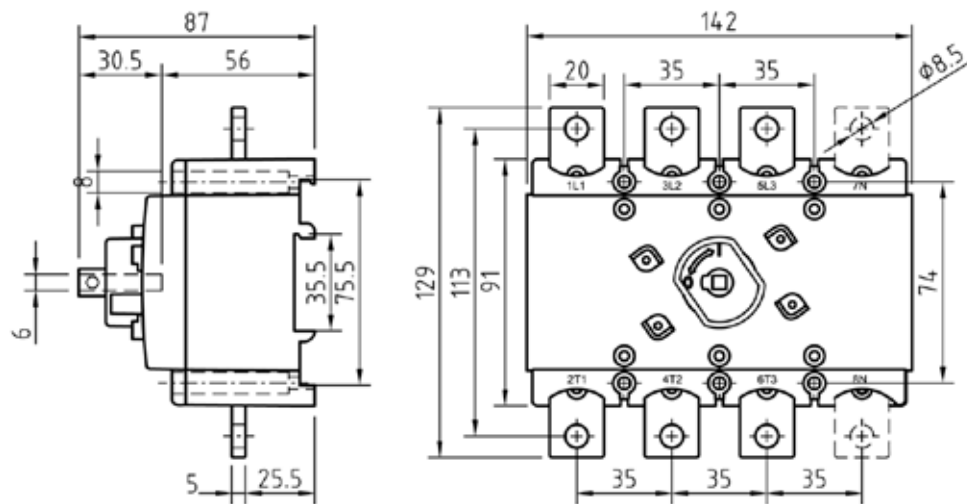
### KU 6 POLE



### KU 8 POLE

## DIMENSIONAL DRAWINGS

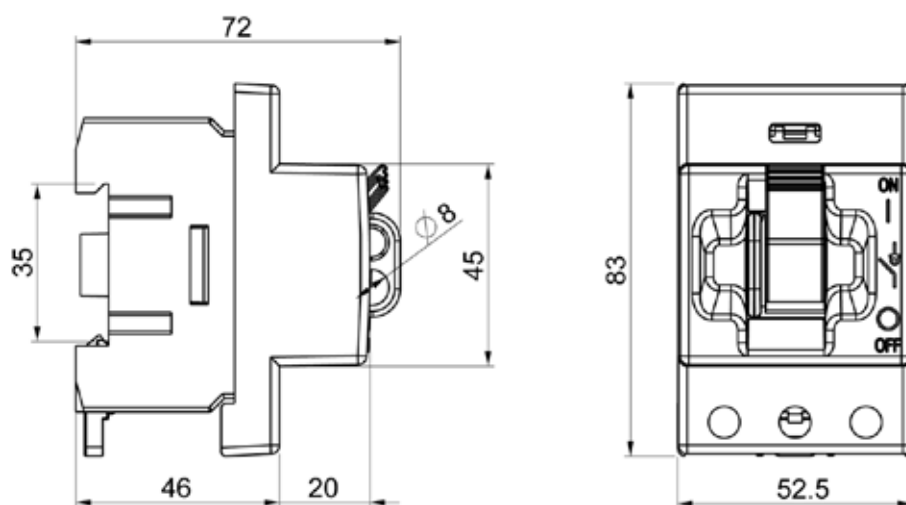
### VKA 200-250A



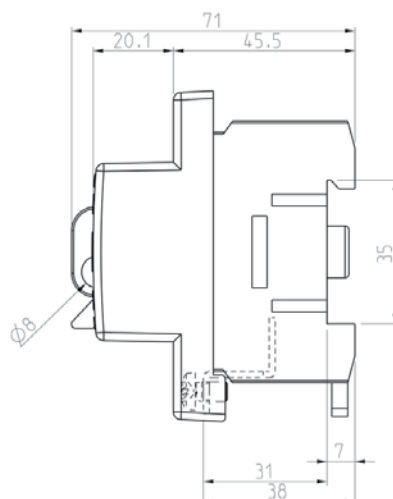
### VKA 3-4 POLE

## DIMENSIONAL DRAWINGS

### KUE 16-125 A



#### KUE + KKUE

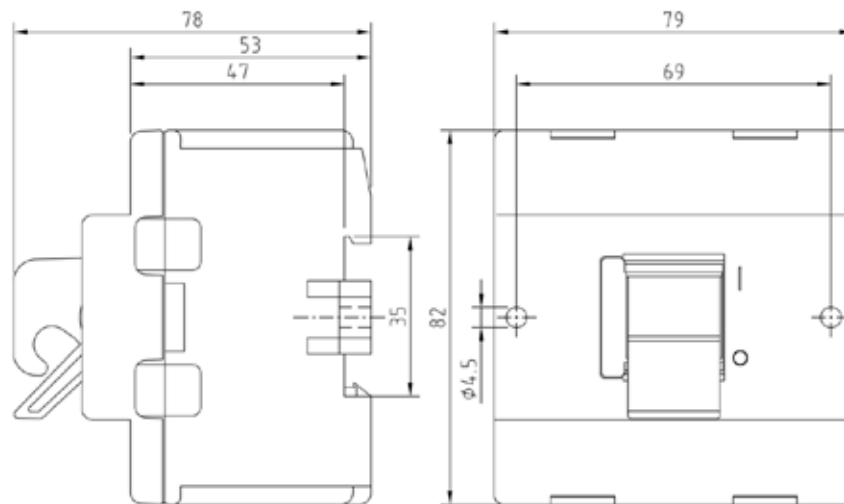


#### KUE AD1 + KKUE

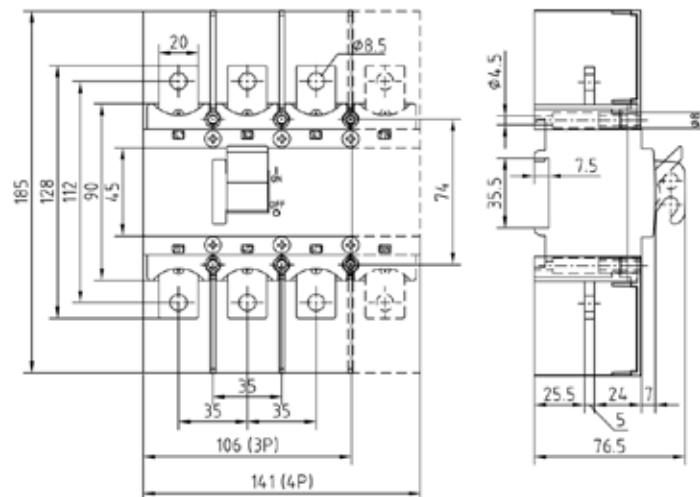


## DIMENSIONAL DRAWINGS

### EVA 125-250 A



### EVA 125-160 A + KEVA



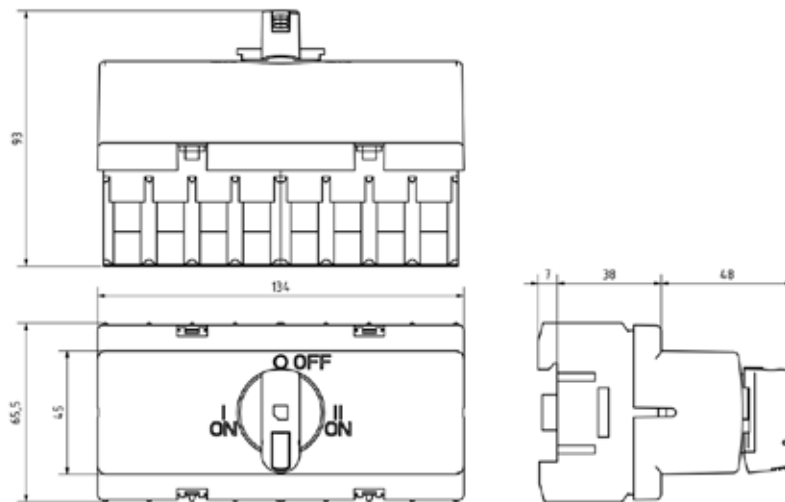
### EVA 200-250 A 3-4 POLE



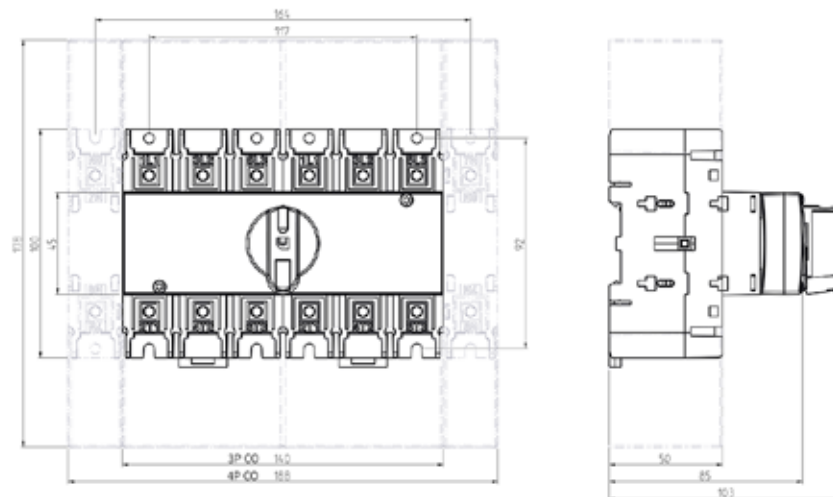
KATKO CONNECTSAFE CATALOGUE AVAILABLE AT:  
[www.katko.com/downloads](http://www.katko.com/downloads)



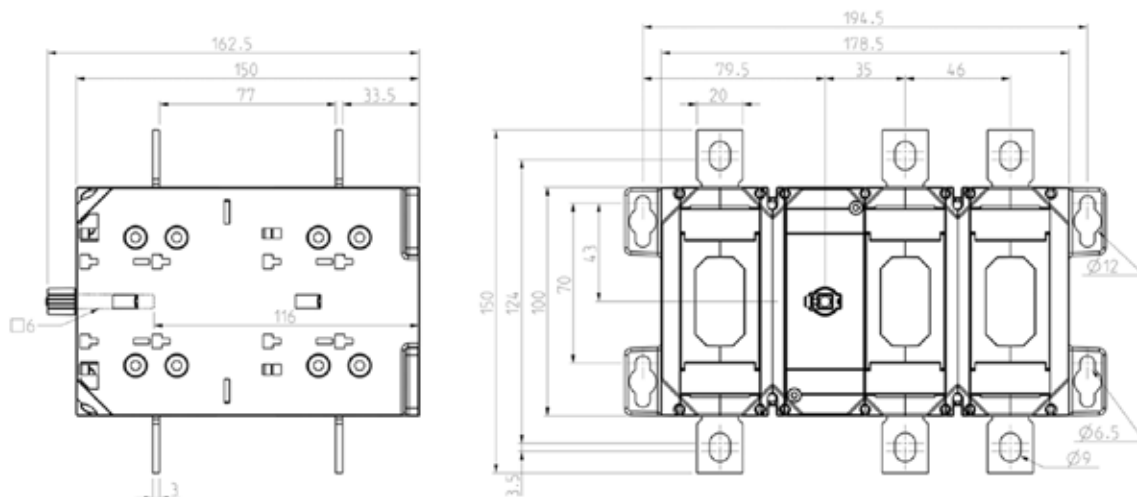
## DIMENSIONAL DRAWINGS CHANGE-OVER SWITCHES



**KU 16-80 A & 125 A (N) 3-4 POLE CHANGE-OVER**

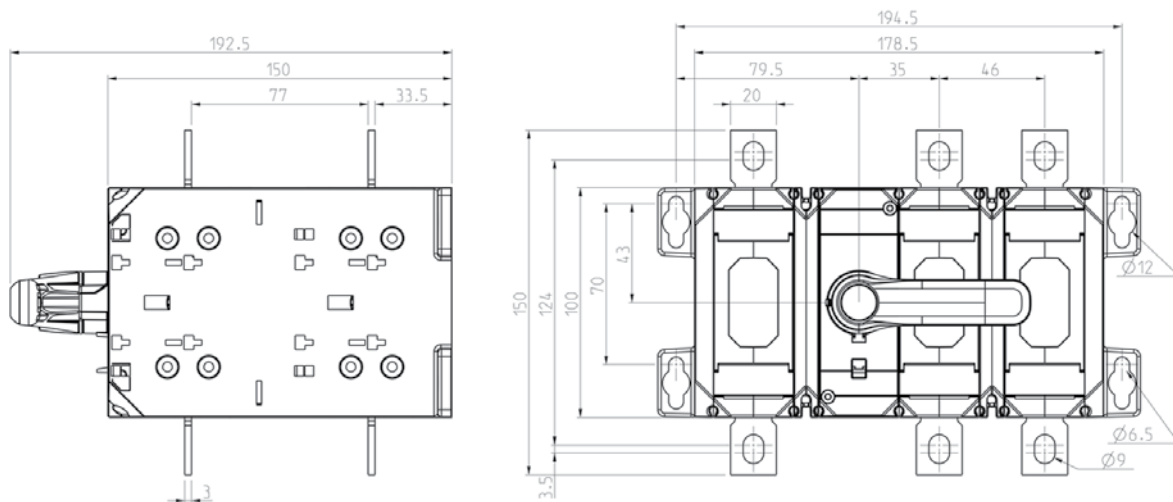


**KU 100-160 A 3-4 POLE CHANGE-OVER**

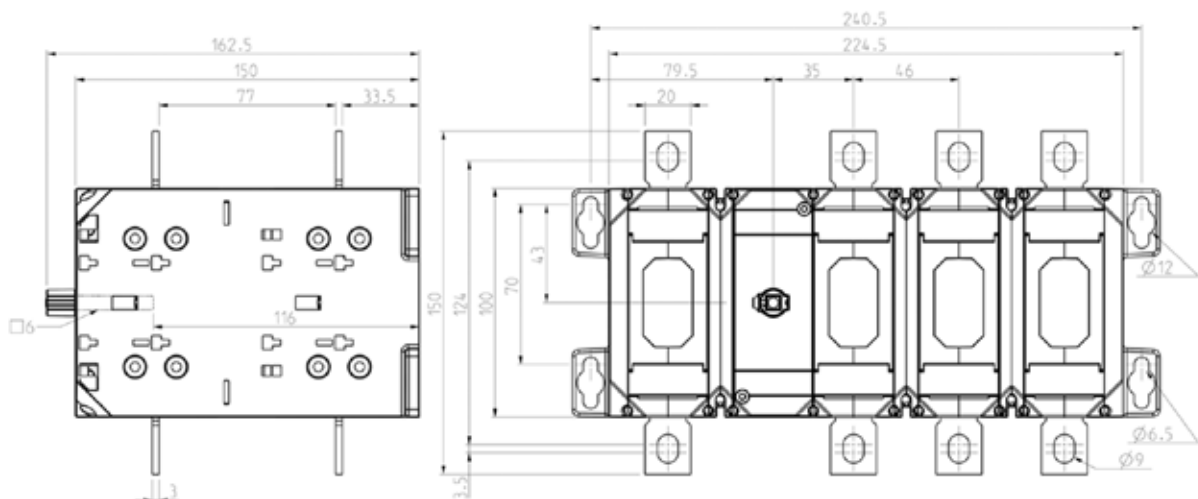


**KU 200-250 A & 160 A PERFORMANCE (P) 3-POLE CHANGE-OVER (W)**

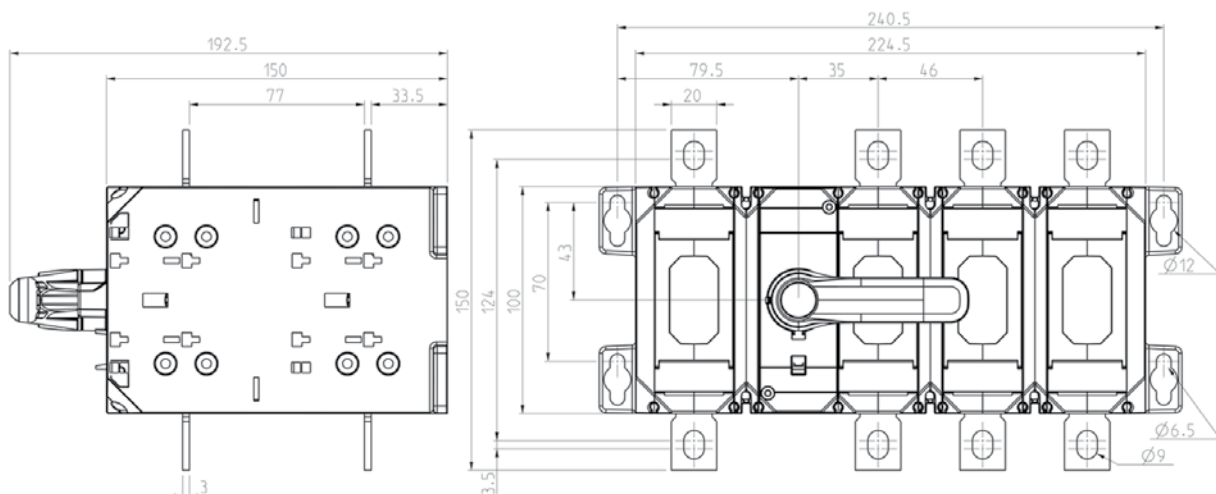
## DIMENSIONAL DRAWINGS CHANGE-OVER SWITCHES



**KU 200-250 A & 160 A PERFORMANCE (P) 3-POLE CHANGE-OVER, DIRECT HANDLE (W)**

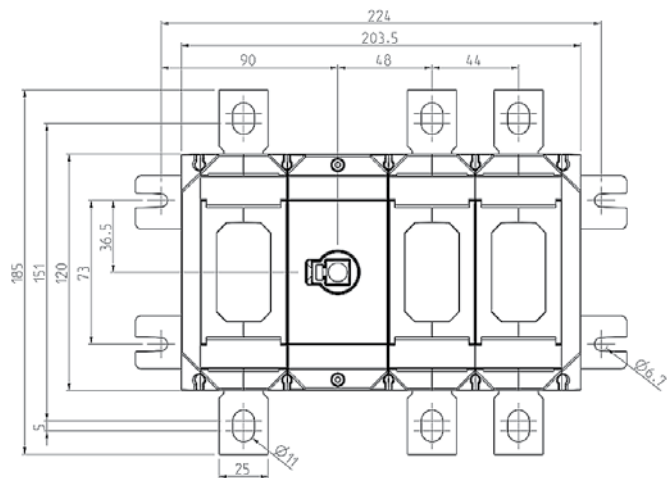
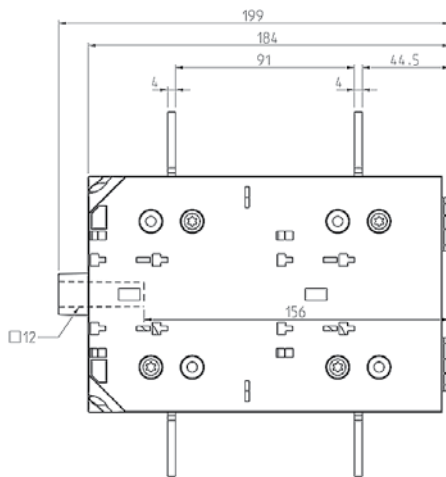


**KU 200-250 A & 160 A PERFORMANCE (P) 4-POLE CHANGE-OVER (W)**

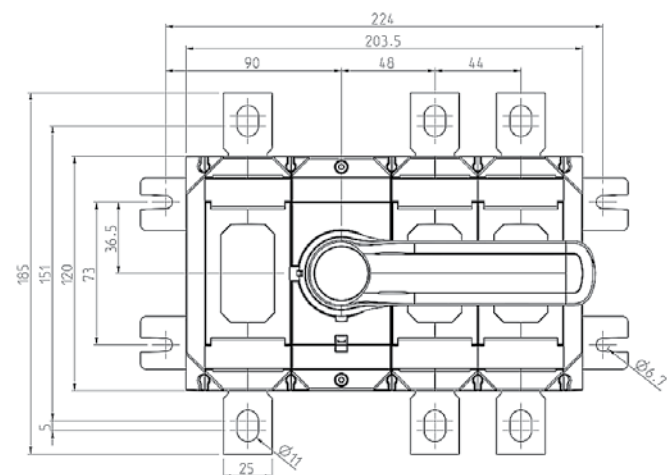
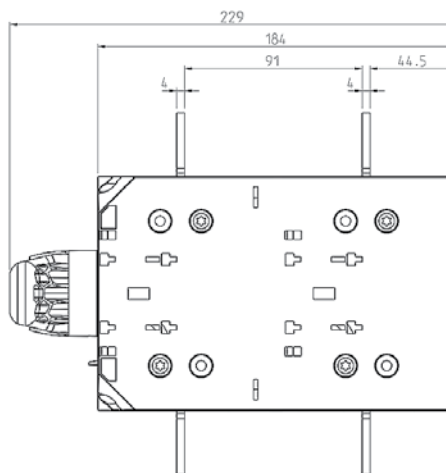


**KU 200-250 A & 160 A PERFORMANCE (P) 4-POLE CHANGE-OVER, DIRECT HANDLE (W)**

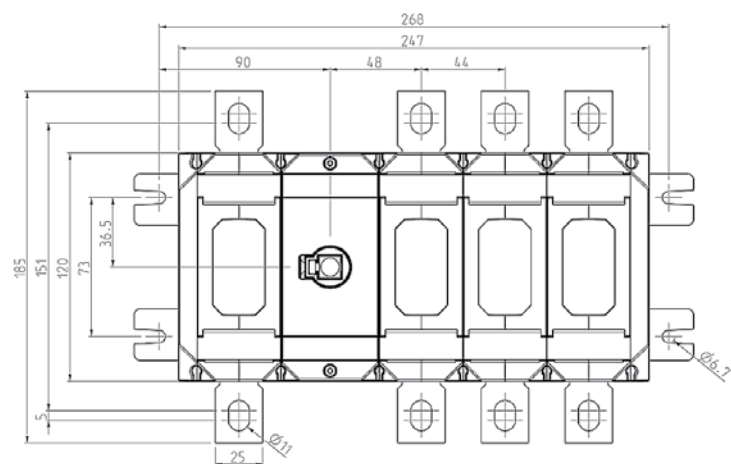
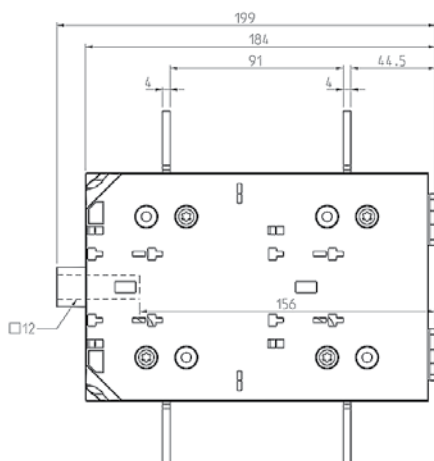
## DIMENSIONAL DRAWINGS CHANGE-OVER SWITCHES



### KU 315-400 A 3-POLE CHANGE-OVER

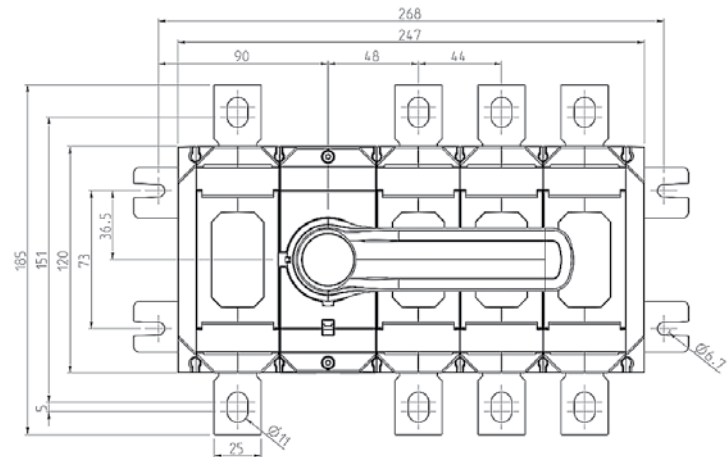
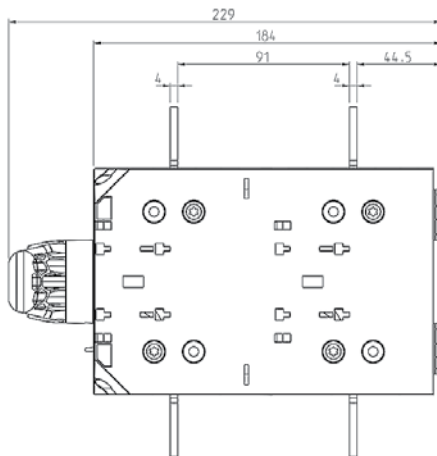


### KU 315-400 A 3-POLE CHANGE-OVER, DIRECT HANDLE

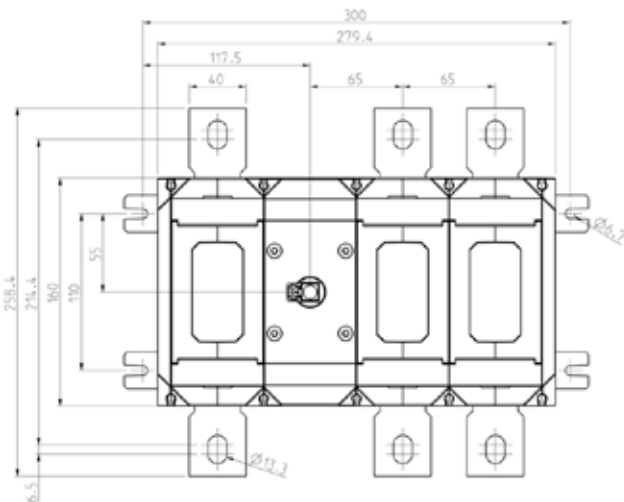
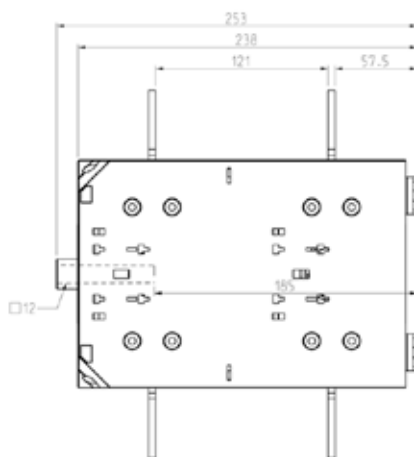


### KU 315-400 A 4-POLE CHANGE-OVER

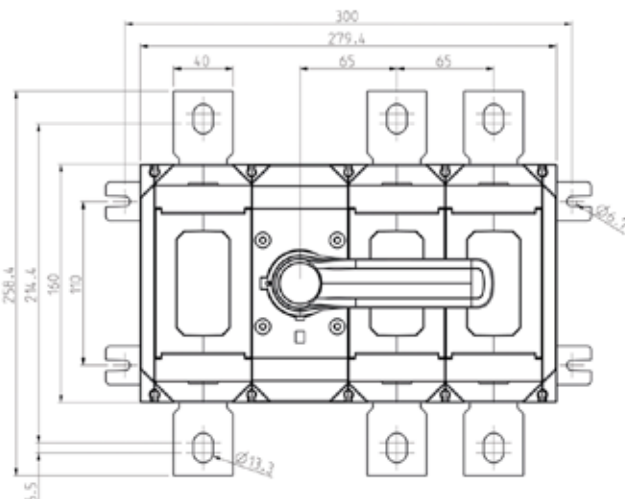
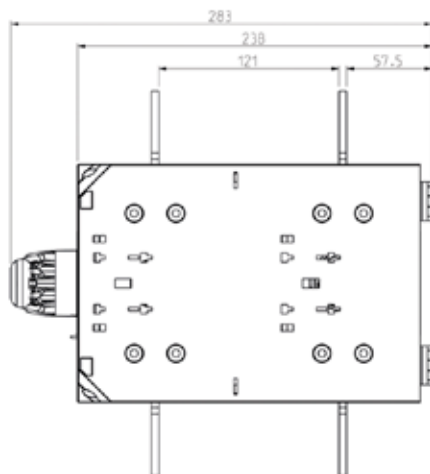
## DIMENSIONAL DRAWINGS CHANGE-OVER SWITCHES



### KU 315-400 A 4-POLE CHANGE-OVER, DIRECT HANDLE



### KU 630-800 A 3-POLE CHANGE-OVER



### KU 630-800 A 3-POLE CHANGE-OVER, DIRECT HANDLE

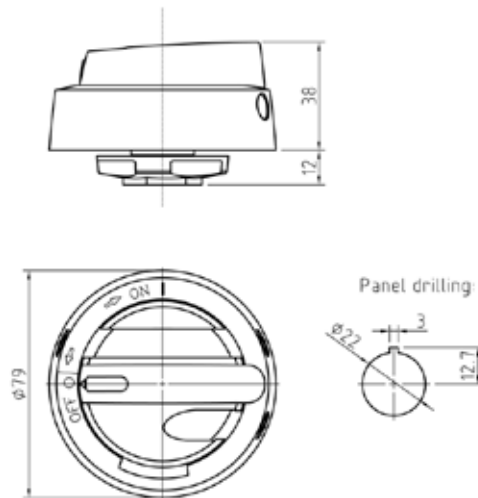
Technical drawing of the front view of a rectangular metal plate. The overall dimensions are 365 mm in width and 258.4 mm in height. The width is divided into sections of 117.5 mm, 65 mm, and 65 mm. The height is divided into sections of 234.4 mm, 190 mm, and 6.5 mm. The plate features four circular holes (Ø12.3) along the top and bottom edges, and four rectangular slots (Ø16.7) along the left and right edges. A central circular hole (Ø12.3) is located on the left side. The plate is shown with a central vertical slot and a central horizontal slot.

[illegible]

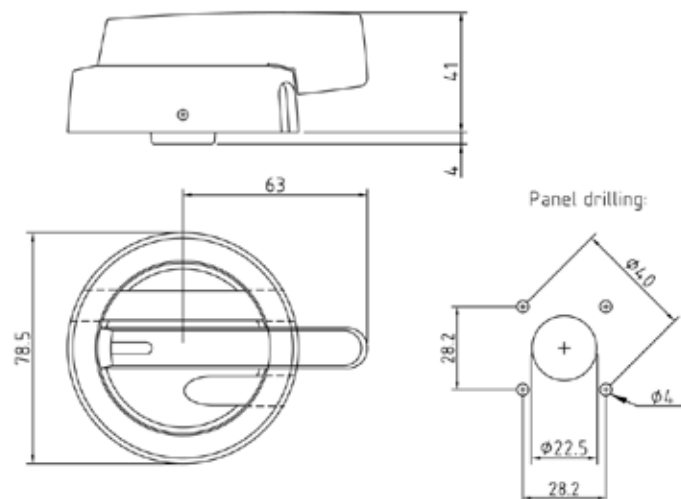
Load Safe



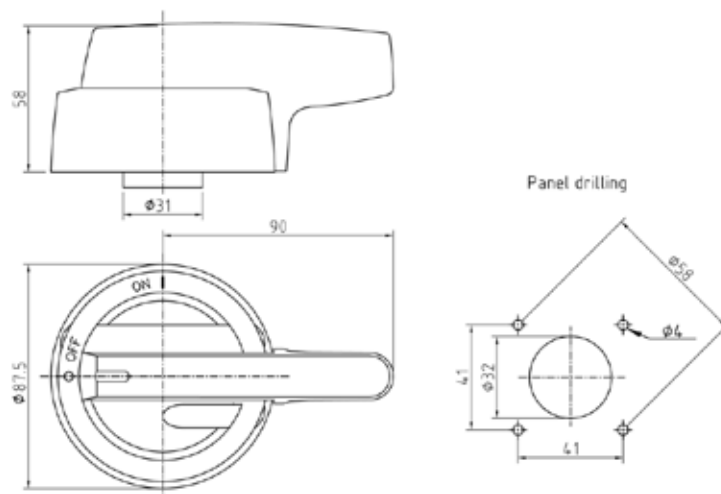
## DIMENSIONAL DRAWINGS HANDLES



### LK10

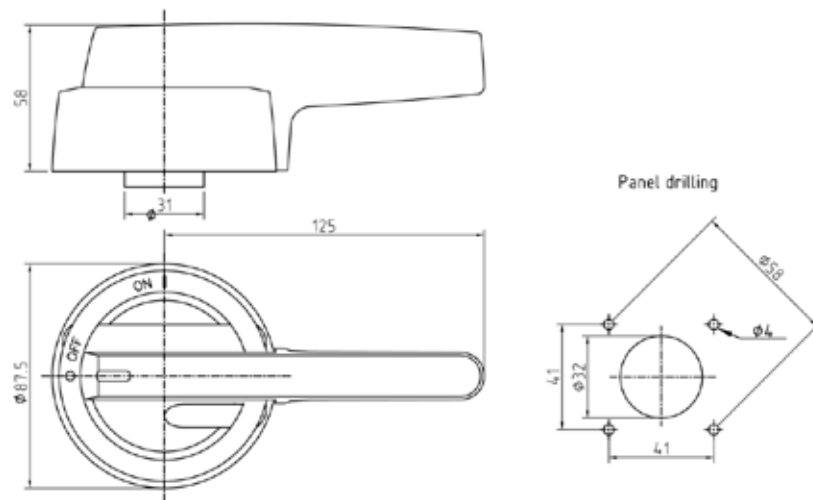


### LK11

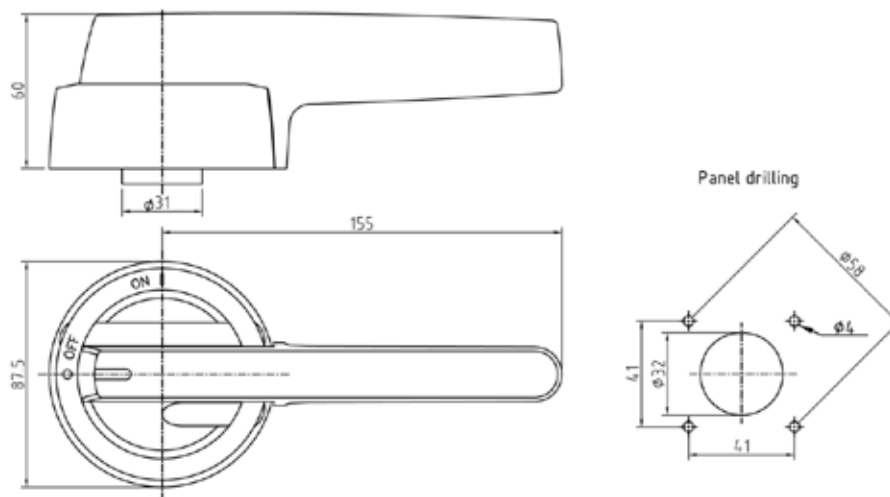


### LK12

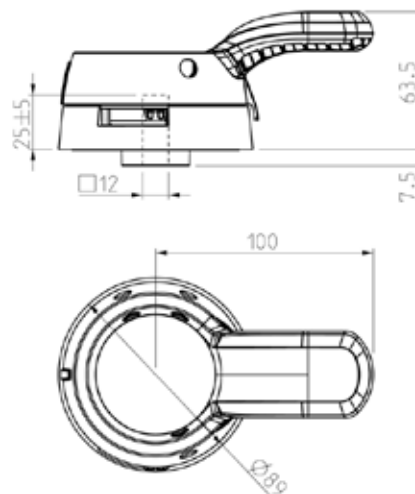
## DIMENSIONAL DRAWINGS HANDLES



### LK13

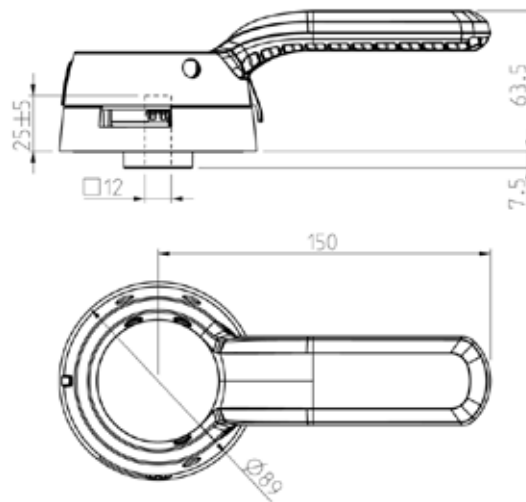


### LK14

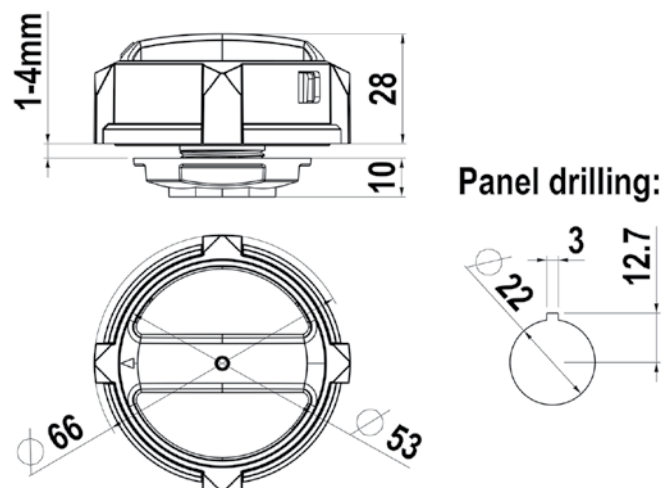


### LKX100

## DIMENSIONAL DRAWINGS HANDLES

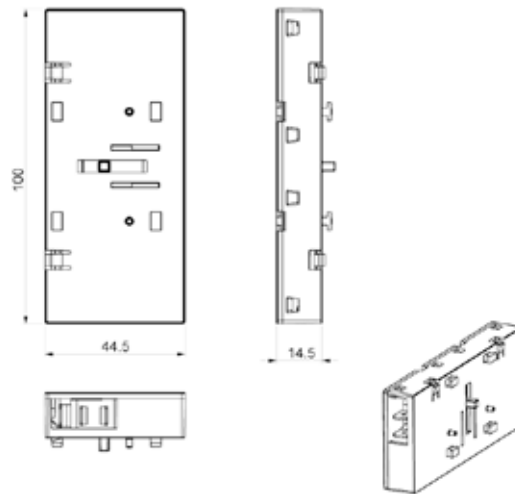


### LKX150



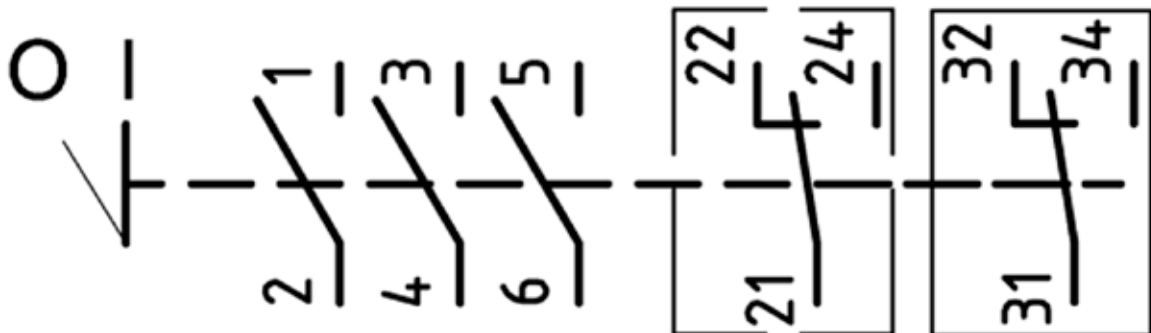
### LKX50

## DIMENSIONAL DRAWINGS AUXILIARY CONTACTS & SWITCHING DIAGRAMS

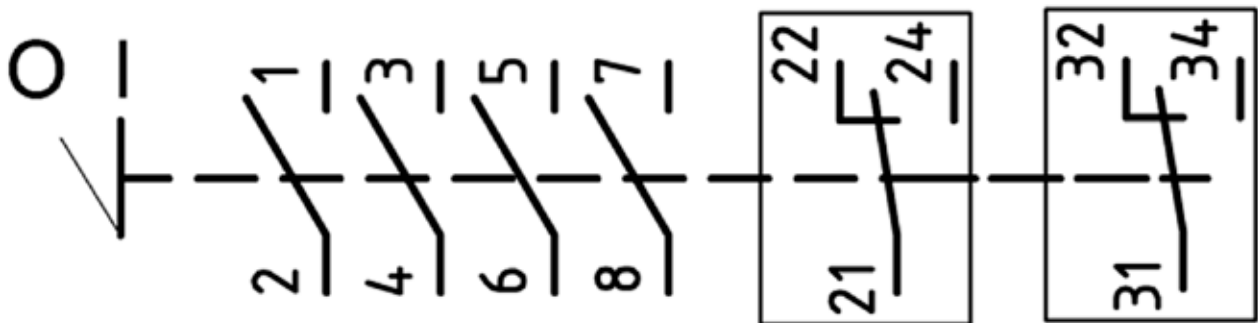


### 1V160KU & 2V160KU

3 pole+2NC/NO(Accessory)



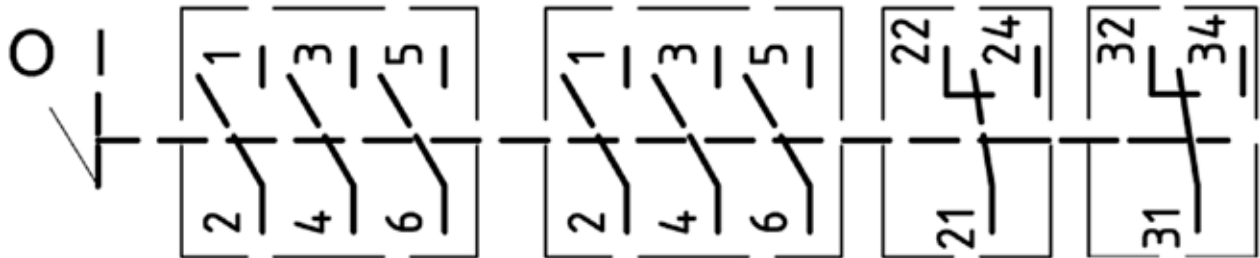
4 pole+2NC/NO(Accessory)



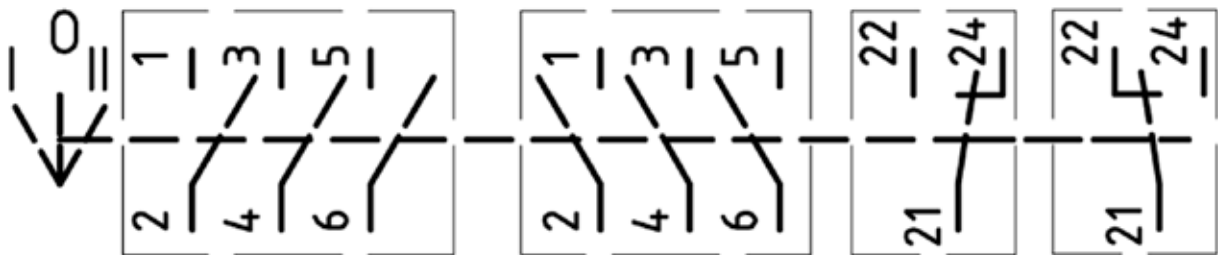
## DIMENSIONAL DRAWINGS

### AUXILIARY CONTACTS & SWITCHING DIAGRAMS

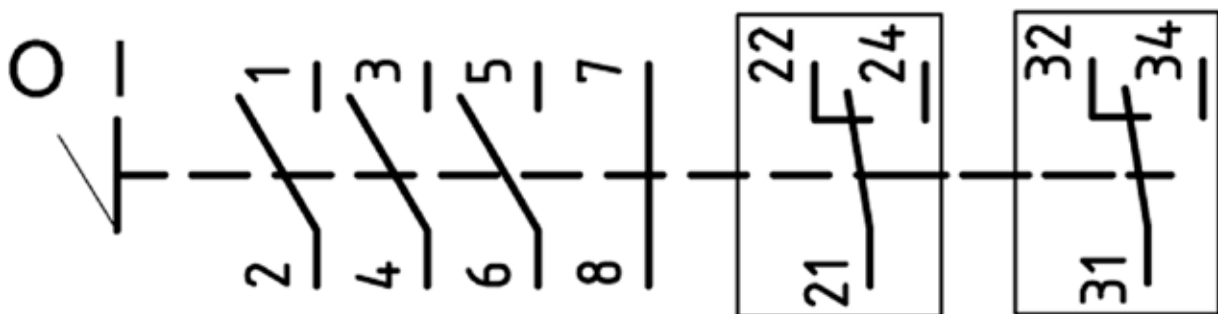
#### 6 pole+2NC/NO(Accessory)



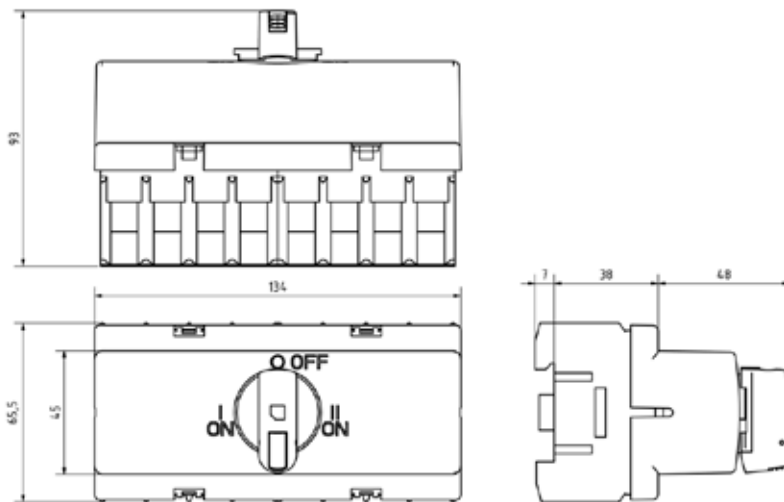
#### Change-over 3pole+2NC/NO(Accessory)



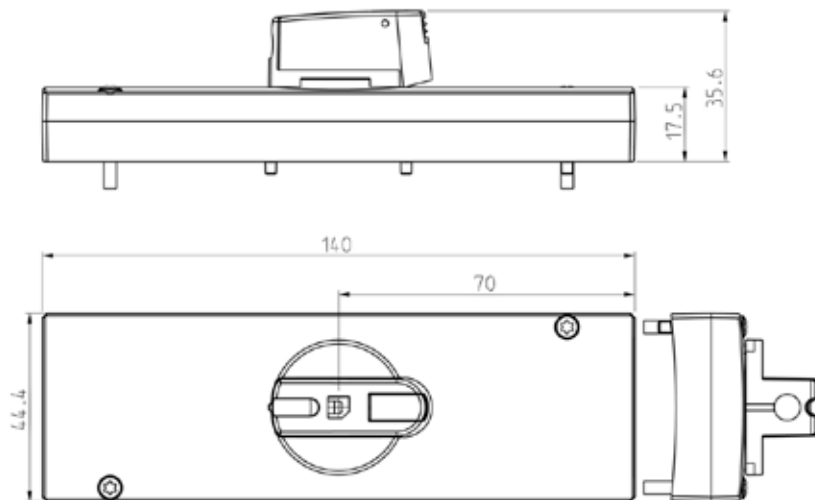
#### 3 pole+NT+2NC/NO(Accessory)



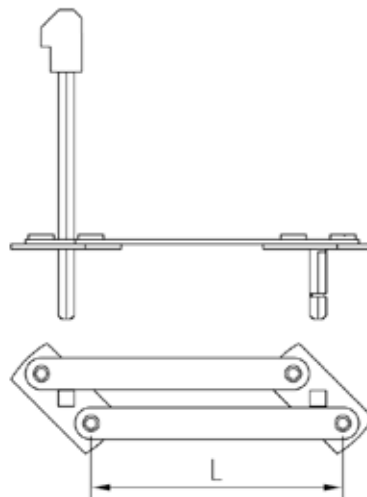
## DIMENSIONAL DRAWINGS CHANGE-OVER KITS & PARALLEL KITS



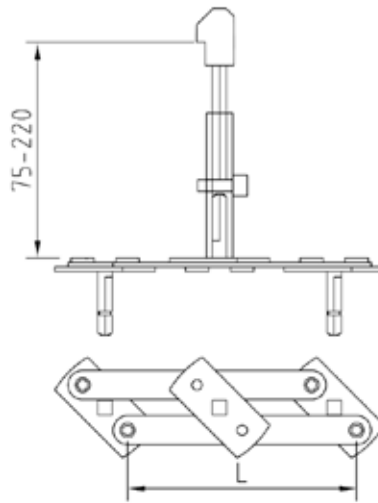
### KUVV



### PK160KU & CO160KU

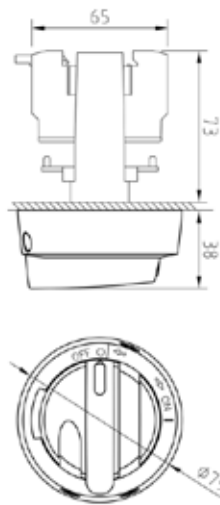


### RV S

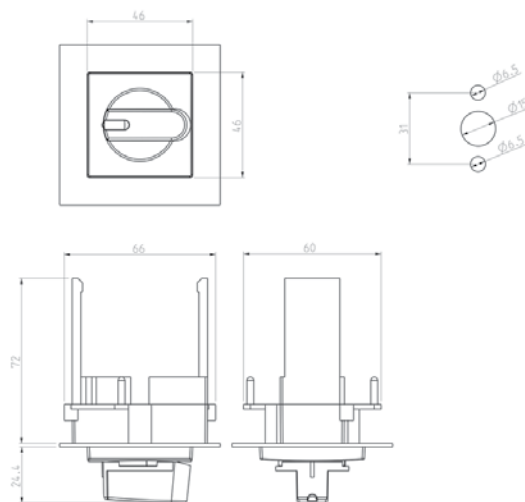
**DIMENSIONAL DRAWINGS  
CHANGE-OVER KITS & PARALLEL KITS****RV**



## DIMENSIONAL DRAWINGS DOOR MOUNTING KITS

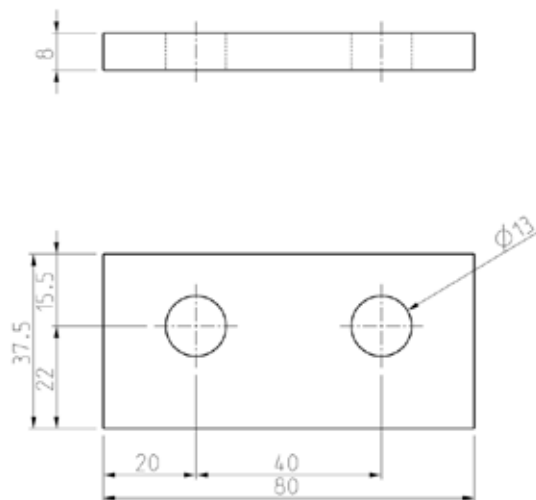


### OKA KU LK10

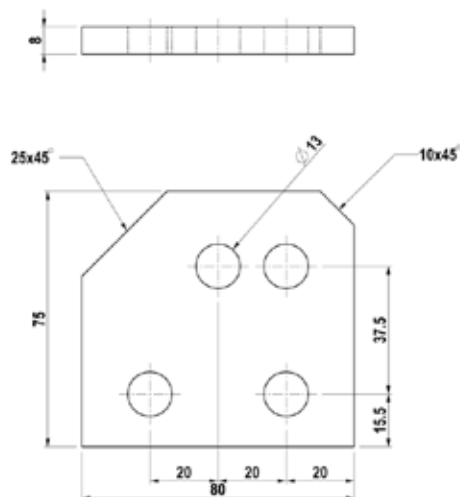


### OKA KU LK6

## DIMENSIONAL DRAWINGS SPREADERS

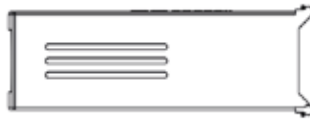
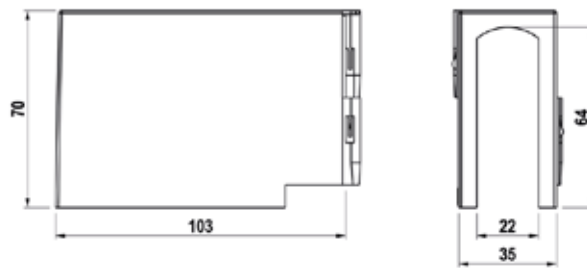


**ALK800C**

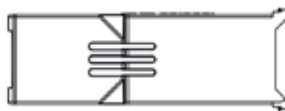
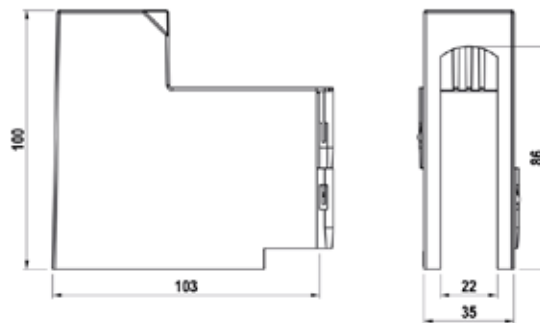


**ALK800**

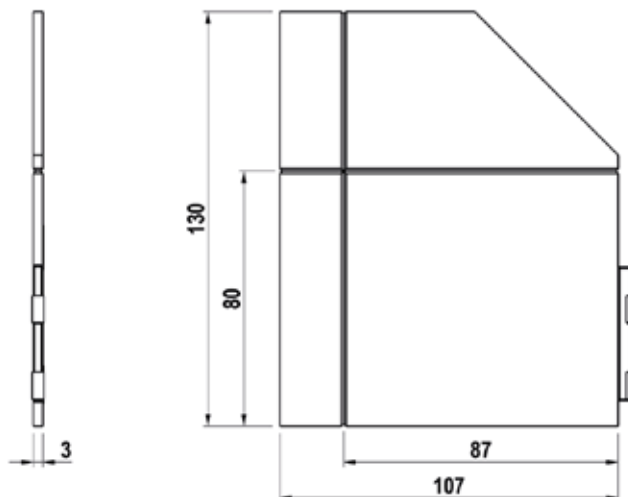
## DIMENSIONAL DRAWINGS TERMINAL COVERS & PHASE BARRIERS



### LS250F

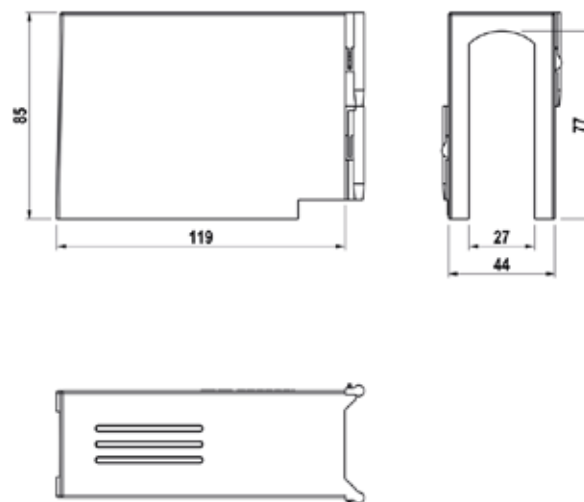


### LS250H

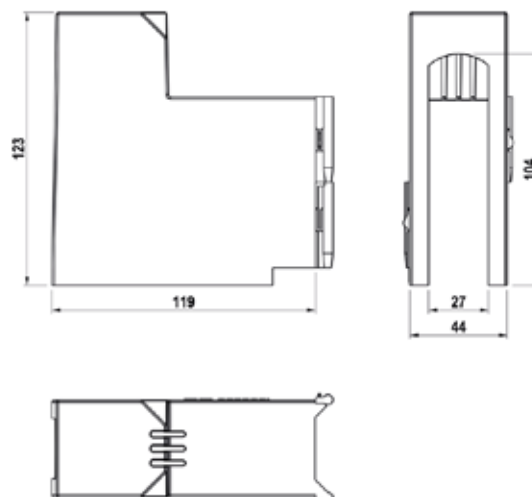


### VS250

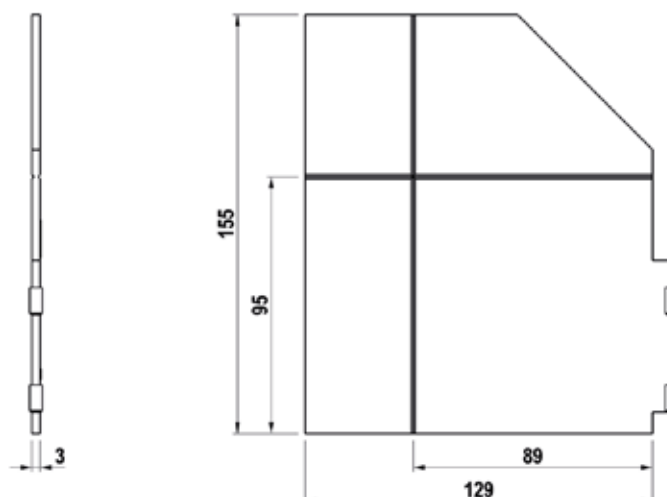
## DIMENSIONAL DRAWINGS TERMINAL COVERS & PHASE BARRIERS



### LS400F

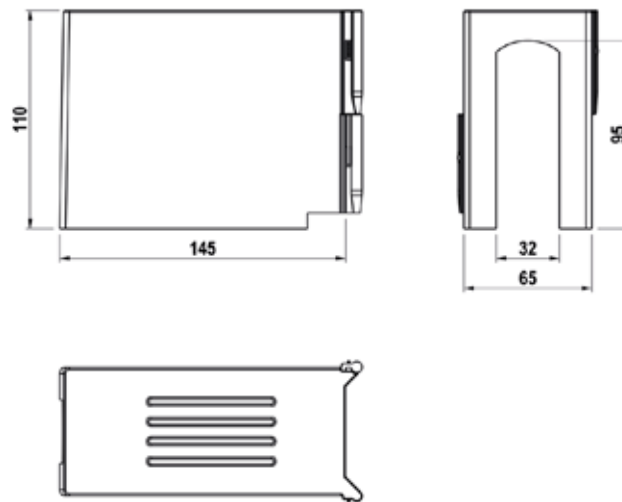


### LS400H

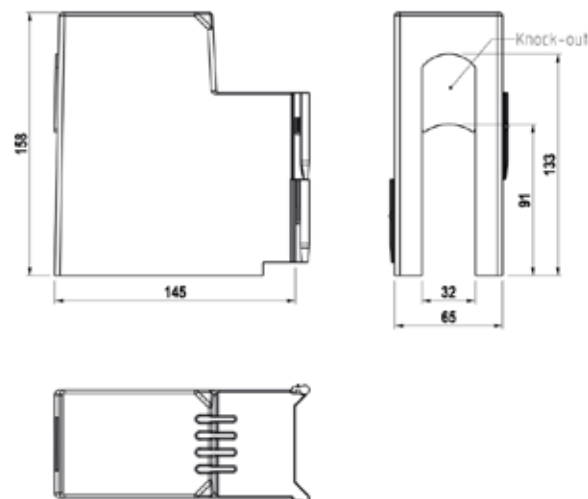


### VS400

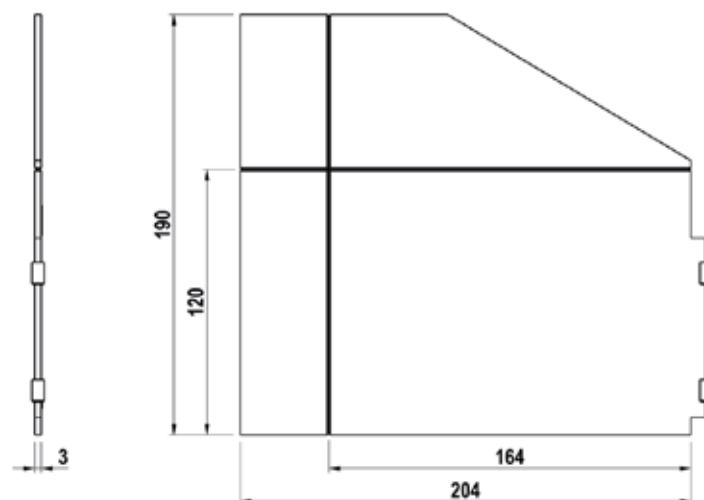
## DIMENSIONAL DRAWINGS TERMINAL COVERS & PHASE BARRIERS



### LS800F



### LS800H



### VS800

## CONDITIONS OF SALE

### 1. Validity

These conditions are subject to any special stipulations set out by KATKO Oy (hereinafter "Katko") in the Agreement documents. The said conditions and stipulations shall prevail unless otherwise agreed in writing.

### 2. Specifications

All quotations for goods are made in accordance with Katko's specifications at the time of order.

### 3. Price

Katko reserves the right to undertake reasonable price adjustments in case of fluctuation of cost with two (2) months' notice (unless otherwise agreed in writing). The adjustment will be applied also to orders already received and confirmed, if the confirmed delivery time is longer than two (2) months. Any change of the prices shall be notified to the Distributor by registered letter, fax or email.

### 4. Delivery

The order becomes binding once Katko has confirmed it. Unless otherwise agreed, deliveries shall be ex-works, Helsinki in accordance with Incoterms 2000. Where the Distributor fails to give Katko adequate instructions for dispatch, or otherwise delays delivery, Katko shall be entitled to store, dispose of or reallocate the goods without being responsible for any loss and at its option to charge for any costs arising and/or to cancel the order.

### 5. Force Majeure

Katko shall not be under any liability in respect of any delay in delivery arising from Force Majeure including, but not limited to, industrial or labor disputes, riots, mobs, fires, floods, wars, civil strife, embargoes, shortages of labor, materials, power, fuels, or means of transportation, whether affecting the Katko or any subcontractor, or for circumstances caused by reasons of law, regulations or orders and lack of permission of any government or competent Authority. Any delay caused by such conditions shall be excused and Katko may claim extension of time for as long as such conditions continue. During the period in which delivery of the goods cannot be made for any abovementioned reason the Distributor shall be entitled, after giving Katko written notice of its intention to do so, to purchase products elsewhere at its own cost and risk and Katko shall not be obliged to make up deficiencies which have arisen as aforesaid. If a delay exceeds three months, Katko and the Distributor may cancel the Agreement without incurring any liability therefor.

### 6. Payment

a. Unless otherwise agreed, the Distributor shall make full payment in Euro to Katko by wire transfer with immediately available funds or by confirmed and irrevocable Letter of credit (L/C) payable at sight in Helsinki.

b. Katko charges interest for late payment, amounting to one and one half per cent (1 and 1/2%) per month

for any unpaid amount from the date such payment is due.

### 7. Claims

No claim for shortage or damage will be considered unless received in writing by Katko within (whichever occurs earlier) the warranty period or 14 days from the date when the Distributor became aware or should have reasonably become aware of the shortage or damage.

### 8. Warranty

Katko warrants that the products conform with the specifications. The warranty period is 12 months from the date of delivery. As an exclusive remedy for the product that breaches the warranty, Katko shall, at its option, replace the product at its own cost with new product or refund the purchase price of any product which within warranty period, are found to be in breach of the warranty, provided that the goods are returned to Katko's designated factory freight prepaid, and Katko is informed immediately, when the breach of warranty becomes apparent and the same is shown to Katko's reasonable satisfaction to be due to its faulty workmanship or defective materials. No other warranties, express or implied, are made or will be deemed to have been made by Katko and Katko neither assumes nor authorizes any other person to assume for it any other obligations or liabilities in connection with the distribution and sale of the products or otherwise. This condition shall replace and exclude all common law or statutory warranties, undertakings, statements, representations or conditions whether express or implied. Katko shall not be liable in contract or tort for any indirect, consequential or economic loss (whether relating to quality, dispatch, and delivery or otherwise).

The Distributor will assume responsibility for and hold and save Katko harmless from all claims (including but not limited to claims resulting from acts of negligence on the part of the Distributor), liabilities, demand, costs or expenses or the like which may be incurred by third party claims related to the products. The Distributor shall maintain during the term of this Agreement adequate insurance to cover its obligations under these conditions.

### 9. IPR and confidentiality

All intellectual property rights in all products and Katko documents (including drawings and art work) furnished to the Distributor shall at all times remain vested in Katko and neither the documents nor their contents shall be used without Katko's express written consent for any purpose other than that for which they were furnished.

The Distributor undertakes to keep confidential and not to use for any other purpose than the purpose of the agreement between the parties any information received from Katko based on the agreement or otherwise regardless of the form of the information.

### 10. Taxes, duties, fees, charges

The quoted price is exclusive of all taxes, duties and fees and charges of any kind in the country of destination. Such taxes, duties, fees and charges are payable by the Distributor.

### 11. No Waiver

Katko's failure to insist adherence of a certain condition in any specific situation, shall not be deemed a waiver of such condition and shall not prevent Katko from insisting adherence of such condition thereafter.

### 12. Governing law and dispute resolution

These conditions and any other agreement between the parties shall be governed by the laws of Finland excluding its choice of laws provisions. Any dispute, controversy or claim arising out of or relating to these conditions or agreement, or the breach, termination or validity thereof, shall be finally settled by arbitration in accordance with the Arbitration Rules of the Finland Chamber of Commerce by sole arbitrator. The place of arbitration is Helsinki, Finland and the language shall be Finnish.

### 13. Orgalime S 2012

Orgalime S 2012 "General Conditions for the Supply of Mechanical, Electrical and Electronic products" (hereafter Orgalime S 2012) shall apply if not otherwise agreed in the Agreement documents or determined in these conditions. Therefore, should there be a conflict between these conditions and Orgalime S 2012, these conditions shall prevail.



## CONTACT

Ruosilantie 2  
00390 Helsinki, Finland  
Tel. +358 (0)9 849 600

[www.katko.com](http://www.katko.com)  
[info@katko.com](mailto:info@katko.com)

Established in 1938, KATKO is a family-owned company that generates more than 60% of its export in over 40 countries around the world.