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.
Disconnector: (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.

SWITCH DISCONNECTOR FUSE

A switch-disconnector in which one or more poles have a fuse in series in a composite unit.

UTILIZATION CATEGORY

Utilization category	Use / Application
AC-20	Connecting and disconnecting under no-load.
AC-21	Switching of resistive loads including moderate overloads
AC-22	Switching of mixed loads, inductive and resistive loads including moderate overloads
AC-23	Switching of motor loads or other highly inductive loads

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	specially 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 23 / 690V ratings
-50 kA R.M.S values
-CB certificates
-UL, $_{C}$UL listed (UL 60947-4-1A)
-Fuse holder acc. to IEC 60 269 / UL 4248-1