

Type Approval Certificate

This is to certify that the undernoted product(s) has/have been tested with satisfactory results in accordance with the relevant requirements of the Lloyd's Register Type Approval System.

This certificate is issued to:

PRODUCER DESCRIPTION	KATKO Oy P.O. Box 12 Karhunkierros 6 FIN-01641 Vantaa Finland Switch disconnector 2, 3 and 4 poles					
ТҮРЕ	KU 316/325/340/363/380 -N, KU 416/425/440/463/480 -N, KU 3100/ 3125/ 3160, 3 pole KU 4100/ 4125/ 4160, 4 pole					
APPLICATION	Marine, offshore and industrial applications (non-environmentally tested)					
STANDARD	IEC 60947-3:2008 + A1:2012 ⁽¹⁾ IEC 60947-3:2008 + A1:2012 + A2:2015 ⁽²⁾ ⁽¹⁾ for KU 316/325/340/363/380 -N, 3 pole and KU 416/425/440/463/480 -N, 4 pole ⁽²⁾ for KU 3100/ 3125/ 3160, 3 pole and KU 4100/ 4125/ 4160, 4 pole					
Certificate No.	19/20032					
Issue Date	25 April 2019	And Jonesto Register				
Expiry Date	24 April 2024	Antje Herms-Bondzio Hamburg Technical Support Office Lloyd's Register EMEA				
Sheet	1 of 4	Antje Herms-Bondzio Hamburg Technical Support Office				

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RATINGS

Туре		Rated current [A]	Operational voltage	Making capacity I _{cm} [kA]	Withstand capacity I _{cw} [kA]	Utilisation category	
		at 25° C	[VAC, 50/60 Hz]	for power factor ⁽³⁾	1s		
2 pole							
KU216 N	16	240 / 415	2.5	1.7	AC-22 AC 23		
		25	415	2.5	1.7	AC-21	
KU225 N	25	240 / 415	2.5	1.7	AC-22 AC 23		
	40	415	2.5	1.7	AC-21		
KU240 N	40	240 / 415	2.5	1.7	AC-22 AC 23		
		66	415	2.5	1.7	AC-21	
3 pole / 4 pole							
KU316 N KU416 N	16	415 / 690	2.5	1.7	AC-22 AC 23		
		25	690	2.5	1.7	AC-21	
KU325 KU425 N	N	25	415 / 690	2.5	1.7	AC-22 AC 23	
		40	690	2.5	1.7	AC-21	
KU340 KU440 N	N	40	415 / 690	2.5	1.7	AC-22 AC 23	
	63	690	2.5	1.7	AC-21		

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RATINGS continued

Туре	Rated current [A]	Operational voltage [VAC,	Making capacity I _{cm} [kA] for power	Withstand capacity I _{cw} [kA]	Utilisation category		
	at 25° C	50/60 Hz]	factor ⁽³⁾	1s			
3 pole / 4 pole							
KU363 N KU463 N	40	415 / 690	3.1	2.0	AC-23		
	63	690			AC 22		
	80	690			AC-21		
KU380 N KU480 N	40	690	3.1	2.0	AC-23		
	63	415			AC-23		
	80	690			AC 22		
	100	690			AC-21		
KU3100 KU4100	63	690	8.0	5.0	AC-23		
	100	415					
	100	690			AC 22		
	125	690			AC-21		
KU3125 KU4125	80	690	8.0	5.0	AC-23		
	125	415			AC-25		
	125	690			AC 22		
	160	690			AC-21		
KU3160 KU4160	100	690	8.0	5.0			
	160	415			AC-23		
	160	690			AC 22		
	160	690			AC-21		

⁽³⁾ power factor for AC-21 = 0.9, AC-22 = 0.6, AC-23 = 0.3

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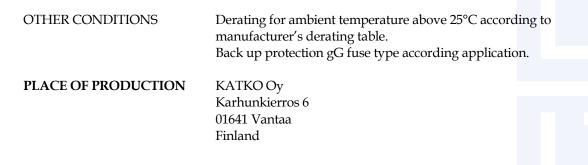
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The Type Approval does not eliminate the need for normal inspection and survey procedures required by the Rules and Regulations.

If the specified standards are amended during the validity of this certificate, the product is to be re-approved prior to it being supplied to vessels to which the amended standards apply.

The Design Appraisal Document No. HTS/ETS 38137-19 and its supplementary Type Approval Terms and Conditions form part of this Certificate.



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