



Main

Range	TeSys
Device short name	VLS1P
Product or component type	Additional pole
Performance level	High performance
Poles description	1P
Contacts type and composition	1 NO
Contact operation	Simultaneous
Range compatibility	TeSys TeSys VARIO LS VLS3P
Network type	AC
Network frequency	50/60 Hz
Suitability for isolation	Yes

Complementary

Mounting location	Right Left
Mounting support	Door
[Ue] rated operational voltage	690 V AC 50/60 Hz
[Uimp] rated impulse withstand voltage	8 kV
[Ith] conventional free air thermal current	80 A (at 55 °C)
[Ithe] conventional enclosed thermal current	80 A
[Ie] rated operational current	100 A Ue: 600 V conforming to UL98 80 A AC-21A Ue: 400 V 80 A AC-21A Ue: 500 V 80 A AC-21A Ue: 690 V 80 A AC-22A Ue: 400 V 80 A AC-22A Ue: 500 V 80 A AC-22A Ue: 690 V 80 A AC-23A Ue: 400 V 63 A AC-23A Ue: 500 V 47 A AC-23A Ue: 690 V
Rated operational power in W	45 KW at 400 V (AC-23A) 45 KW at 500 V (AC-23A) 45 kW at 690 V (AC-23A)
Intermittent duty class	Class 120 - 60 %
Making capacity (I Rms)	120 A at 690 V AC-21A 240 A at 690 V AC-22A 800 A at 690 V AC-23A
[Icm] rated short-circuit making capacity	3550 A at 690 V
[Icw] rated short-time withstand Rms current	2500 A at 690 V duration: 1 s
Rated conditional short-circuit current	50 kA at 400 V - associated fuse 80 A gG
Breaking capacity	120 A at 690 V (AC-21A) 240 A at 690 V (AC-22A) 640 A at 690 V (AC-23A)
Mechanical durability	30000 cycles
Electrical durability	30000 cycles AC-21
Connections - terminals	Power circuit: screw clamp terminals50 mm ² - solid Power circuit: screw clamp terminals70 mm ² - flexible - without cable end
Tightening torque	Power circuit: 5...6 N.m - on screw clamp terminals
Height	100 mm
Width	23 mm
Depth	48.6 mm

Net weight	0.11 kg
Colour	Grey





Environment

Standards	UL98 CSA C22.2 No 4 IEC 60947-3
Product certifications	cULus[RETURN]GL
IP degree of protection	IP20 conforming to IEC 60529
Mechanical robustness	Vibrations 2...100 Hz Fc (0.7 g) conforming to IEC 60068-2-6 Shocks 11 ms Ea (15 gn) conforming to IEC 60068-2-27
Ambient air temperature for operation	-25...55 °C
Fire resistance	960 °C conforming to IEC 60695-2-11

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	6.35 cm
Package 1 Width	11.43 cm
Package 1 Length	7.62 cm
Package 1 Weight	0.13 kg
Unit Type of Package 2	S03
Number of Units in Package 2	36
Package 2 Height	30 cm
Package 2 Width	30 cm
Package 2 Length	40 cm
Package 2 Weight	5.465 kg

Offer Sustainability

REACH Regulation	 REACH Declaration
REACH free of SVHC	Yes
EU RoHS Directive	Compliant  EU RoHS Declaration
Toxic heavy metal free	Yes
Mercury free	Yes
China RoHS Regulation	 China RoHS Declaration
RoHS exemption information	 Yes

Contractual warranty

Warranty	18 months
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