



## 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
Contacts operation	Early make
Range compatibility	TeSys VARIO LS VLS3P
Network type	AC
Network frequency	50/60 Hz
Suitability for isolation	Yes

## Complementary

Mounting location	Left Right
Mounting support	DIN rail
System Voltage	690 V AC 50/60 Hz
[Uimp] rated impulse withstand voltage	8 kV
[Ith] conventional free air thermal current	125 A at 55 °C
[Ithe] conventional enclosed thermal current	100 A
[Ie] rated operational current	47 A (AC-23A) at 690 V 100 A at 600 V according to UL98 125 A (AC-21A) at 400 V 125 A (AC-21A) at 500 V 125 A (AC-21A) at 690 V 125 A (AC-22A) at 400 V 125 A (AC-22A) at 500 V 125 A (AC-22A) at 690 V

	125 A (AC-23A) at 400 V 100 A (AC-23A) at 500 V
Rated operational power in W	45 kW at 500 V (AC-23A) 45 kW at 690 V (AC-23A) 55 kW at 400 V (AC-23A)
Intermittent duty class	Class 120 - 60 %
Making capacity ( I Rms)	187.5 A at 690 V (AC-21A) 375 A at 690 V (AC-22A) 1250 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 during 1 s
Rated conditional short-circuit current	50 kA at 400 V - associated fuse 125 A gG
Breaking capacity	187.5 A at 690 V AC-21A 375 A at 690 V AC-22A 1000 A at 690 V AC-23A
Mechanical durability	30000 cycles
Electrical durability	30000 cycles AC-21
Connections - terminals	Power circuit : screw clamp terminals cable 70 mm <sup>2</sup> - cable stiffness: flexible - without cable end Power circuit : screw clamp terminals cable 50 mm <sup>2</sup> - cable stiffness: solid
Tightening torque	Power circuit : 5...6 N.m - on screw clamp terminals
Height	3.94 in (100 mm)
Width	0.91 in (23 mm)
Depth	43.9 mm
Product weight	0.24 lb(US) (0.11 kg)
Colour	Grey

## Environment

Standards	CSA C22.2 No 4 IEC 60947-3 UL98
Product certifications	GL
IP degree of protection	IP20 conforming to IEC 60529
Mechanical robustness	Vibrations 2...100 Hz Fc 0.7 g IEC 60068-2-6 Shocks Ea 15 gn IEC 60068-2-27
Ambient air temperature for operation	-13...131 °F (-25...55 °C)
Fire resistance	1760 °F (960 °C) conforming to IEC 60695-2-11

## Ordering and shipping details

Category	21734 - TESYS VLS DISCONNECT SWITCHES
Discount Schedule	CP1
GTIN	00785901568124
Nbr. of units in pkg.	1
Package weight(Lbs)	0.28000000000000003
Returnability	Y
Country of origin	IT