

# Product data sheet

Specifications



## Disconnect switch, TeSys VLS, additional pole, 80A, for 80A switch, size 2, DIN rail

VLS1P080R2S

! To be discontinued on: 01 December 2023

! To be discontinued

### 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	DIN rail
[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 131 °F (55 °C)
[Ithe] conventional enclosed thermal current	80 A
[Ie] rated operational current	100 A Ue: 600 V 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 400 V AC-23A) 45 kW 500 V AC-23A) 45 kW 690 V AC-23A)

<b>Intermittent duty class</b>	Class 120 - 60 %
<b>Making capacity ( I Rms)</b>	120 A 690 V AC-21A 240 A 690 V AC-22A 800 A 690 V AC-23A
<b>[Icm] rated short-circuit making capacity</b>	3550 A 690 V
<b>[Icw] rated short-time withstand Rms current</b>	2500 A 690 V 1 s
<b>Rated conditional short-circuit current</b>	50 kA 400 V 80 A gG
<b>Breaking capacity</b>	120 A 690 V AC-21A) 240 A 690 V AC-22A) 640 A 690 V AC-23A)
<b>Mechanical durability</b>	30000 cycles
<b>Electrical durability</b>	30000 cycles AC-21
<b>Connections - terminals</b>	Power circuit screw clamp terminals 0.08 in <sup>2</sup> (50 mm <sup>2</sup> ) solid Power circuit screw clamp terminals 0.11 in <sup>2</sup> (70 mm <sup>2</sup> ) flexible - without cable end
<b>Tightening torque</b>	Power circuit 44.25...53.10 lbf.in (5...6 N.m) screw clamp terminals
<b>Height</b>	3.94 in (100 mm)
<b>Width</b>	0.91 in (23 mm)
<b>Depth</b>	1.73 in (43.9 mm)
<b>Product weight</b>	0.24 lb(US) (0.11 kg)
<b>Colour</b>	Grey

## Environment

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

## Packing Units

<b>Unit Type of Package 1</b>	PCE
<b>Number of Units in Package 1</b>	1
<b>Package 1 Height</b>	3.00 in (7.62 cm)
<b>Package 1 Width</b>	4.50 in (11.43 cm)
<b>Package 1 Length</b>	3.00 in (7.62 cm)
<b>Package 1 Weight</b>	0.29 lb(US) (0.13 kg)
<b>Unit Type of Package 2</b>	S03
<b>Number of Units in Package 2</b>	36
<b>Package 2 Height</b>	11.81 in (30 cm)
<b>Package 2 Width</b>	11.81 in (30 cm)
<b>Package 2 Length</b>	15.75 in (40 cm)
<b>Package 2 Weight</b>	11.41 lb(US) (5.177 kg)

## Offer Sustainability

REACH Regulation	<a href="#">REACH Declaration</a>
REACH free of SVHC	Yes
EU RoHS Directive	Compliant <a href="#">EU RoHS Declaration</a>
Toxic heavy metal free	Yes
Mercury free	Yes
China RoHS Regulation	<a href="#">China RoHS declaration</a> Pro-active China RoHS declaration (out of China RoHS legal scope)
RoHS exemption information	Yes

### Recommended replacement(s)