

# Product data sheet

Specifications



Disconnect switch, TeSys VLS, body switch, 100A, 50HP at 480VAC, UL98, three phase, 50kA SCCR, size 2, DIN rail mount

VLS3P100R2

## Main

Range	TeSys
Product Name	TeSys VARIO LS
Device Short Name	VLS3P
Product Type	Switch body

## Complementary

Device Composition	Handle Switch
Mounting Support	Back DIN rail
Mounting Method	By clips back
Performance Level	High performance
Number of Poles	3P
Contact Type and Composition	3 NO
Color	Grey
[Ue] UL Rated Operational Voltage	600 V AC 50/60 Hz UL 508
[Ue] IEC Rated Operational Voltage	690 V AC 50/60 Hz
UL Maxium Horsepower Ratings	30 hp 200/208 V AC 30 hp 240 V AC 50 hp 480 V AC 50 hp 600 V AC 5 hp 120 V AC 10 hp 240 V AC
IEC Rated Operational Power in W	55 kW 400 V AC-23A) 45 kW 500 V AC-23A) 45 kW 690 V AC-23A)
[Ie] Rated Operational Current	100 A Ue: 600 V UL98 100 A AC-21A Ue: 400 V 100 A AC-21A Ue: 500 V 100 A AC-21A Ue: 690 V 100 A AC-22A Ue: 400 V 100 A AC-22A Ue: 500 V 100 A AC-22A Ue: 690 V 100 A AC-23A Ue: 400 V 80 A AC-23A Ue: 500 V 47 A AC-23A Ue: 690 V
[Ith] Conventional Free Air Thermal Current	100 A 131 °F (55 °C)

<b>[Ithe] Conventional Enclosed Thermal Current</b>	100 A
<b>Making Capacity ( I Rms)</b>	150 A 690 V AC-21A 300 A 690 V AC-22A 1000 A 690 V AC-23A
<b>Breaking Capacity</b>	150 A 690 V AC-21A) 300 A 690 V AC-22A) 800 A 690 V AC-23A)
<b>SCCR</b>	Fuse J 100 A maximum: 50 kA at 600 V AC
<b>Rated Conditional Short Circuit Current</b>	50 kA 400 V 100 A gG
<b>[Icm] Rated Short Circuit Making Capacity</b>	3550 A 690 V
<b>[Icw] Rated Short Time Withstand Current</b>	2500 A 690 V 1 s
<b>[Uimp] Rated Impulse Withstand Voltage</b>	8 kV
<b>Suitability for Isolation</b>	Yes
<b>Network Type</b>	AC
<b>Network Frequency</b>	50/60 Hz
<b>Intermittent Duty Class</b>	Class 120 - 60 %
<b>Control Type</b>	Rotary handle
<b>Rotary Handle Mounting Style</b>	Direct
<b>Handle Color</b>	Black
<b>Handle Front Plate Color</b>	Grey
<b>Rotary Handle Padlocking</b>	1 padlock 0.16 in (4 mm)
<b>Marking</b>	0 - 1
<b>Mechanical Durability</b>	30000 cycles
<b>Electrical Durability</b>	30000 cycles AC-21
<b>UL Wire Size</b>	AWG 12...AWG 1 copper
<b>IEC Terminal Connection</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>	2.95 in (75 mm)
<b>Width</b>	2.76 in (70 mm)
<b>Depth</b>	3.94 in (100 mm)
<b>Product Weight</b>	0.80 lb(US) (0.365 kg)

## Environment

<b>Standards</b>	UL98 CSA C22.2 No 4 IEC 60947-3
<b>Product Certifications</b>	cULus GL
<b>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
<b>Compatibility Code</b>	VLS

## Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	3.15 in (8.000 cm)
Package 1 Width	3.35 in (8.500 cm)
Package 1 Length	4.72 in (12.000 cm)
Package 1 Weight	14.46 oz (410.000 g)
Unit Type of Package 2	S03
Number of Units in Package 2	27
Package 2 Height	11.81 in (30.000 cm)
Package 2 Width	11.81 in (30.000 cm)
Package 2 Length	15.75 in (40.000 cm)
Package 2 Weight	26.79 lb(US) (12.151 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)