

Product data sheet

Specifications



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

VLS3P100D2

Main

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

Complementary

Mounting Support	Door
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
Network type	AC
Network frequency	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
[Ue] IEC Rated Operational Voltage	690 V AC 50/60 Hz
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)
[Ithe] Conventional Enclosed Thermal Current	100 A

Making capacity (I Rms)	1000 A 690 V AC-23A 150 A 690 V AC-21A 300 A 690 V AC-22A
Breaking Capacity	150 A 690 V AC-21A) 300 A 690 V AC-22A) 800 A 690 V AC-23A)
SCCR	Fuse J 100 A maximum: 50 kA at 600 V AC
Rated Conditional Short Circuit Current	50 kA 400 V 100 A gG
[Icm] Rated Short Circuit Making Capacity	3550 A 690 V
Intermittent duty class	Class 120 - 60 %
[Uimp] rated impulse withstand voltage	8 kV
[Icw] rated short-time withstand Rms current	2500 A 690 V 1 s
Mechanical Durability	30000 cycles
Electrical Durability	30000 cycles AC-21
UL Wire Size	AWG 12...AWG 1 copper
IEC Terminal Connection	Power circuit screw clamp terminals 0.08 in ² (50 mm ²) solid Power circuit screw clamp terminals 0.11 in ² (70 mm ²) flexible - without cable end
Tightening Torque	Power circuit 44.25...53.10 lbf.in (5...6 N.m) screw clamp terminals
Height	2.76 in (70 mm)
Width	2.76 in (70 mm)
Depth	3.94 in (100 mm)
Product Weight	0.80 lb(US) (0.365 kg)

Environment

Standards	UL98 CSA C22.2 No 4 IEC 60947-3
Product Certifications	cULus GL
Degree of Protection	IP20 IEC 60529
Mechanical Robustness	Vibrations 2...100 Hz Fc 0.7 g) IEC 60068-2-6 Shocks 11 ms Ea 15 gn) IEC 60068-2-27
Ambient Air Temperature for Operation	-13...131 °F (-25...55 °C)
Fire Resistance	1760 °F (960 °C) IEC 60695-2-11

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	3.15 in (8.0 cm)
Package 1 Width	3.35 in (8.5 cm)
Package 1 Length	4.72 in (12.0 cm)
Package 1 Weight	15.41 oz (437.0 g)
Unit Type of Package 2	S03
Number of Units in Package 2	27
Package 2 Height	11.81 in (30.0 cm)
Package 2 Width	11.81 in (30.0 cm)

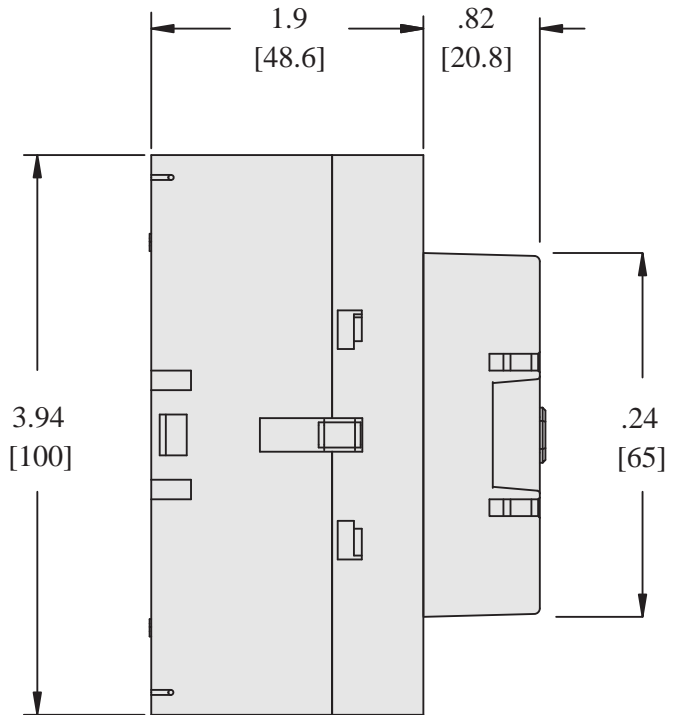
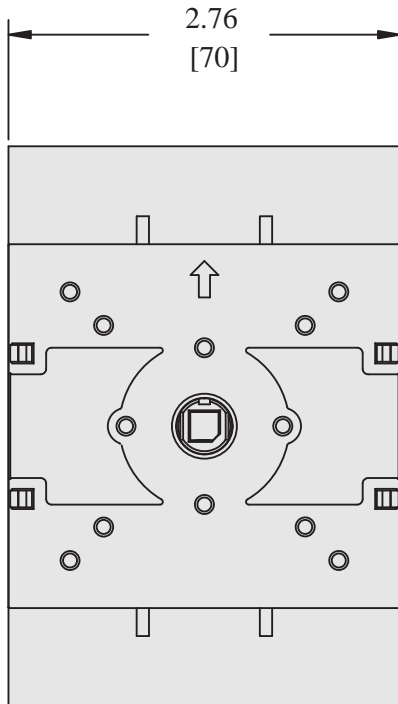
Package 2 Length	15.75 in (40.0 cm)
Package 2 Weight	27.58 lb(US) (12.512 kg)

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 Pro-active China RoHS declaration (out of China RoHS legal scope)
RoHS exemption information	Yes

Dimensions

VLS3P030D2
VLS3P063D2
VLS3P080D2
VLS3P100D2
VLS3P125D2



in.
[mm]

ALL DIMENSIONS ARE APPROXIMATE.
REFER TO TECHNICAL DRAWINGS AND DOCUMENTATION FOR COMPLETE INFORMATION.

Recommended replacement(s)