

# VLS3P100R2

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



## Main

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

## Complementary

|  |  |
|--|--|
| Device Composition                           | Handle<br>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  | Gray   |
| [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<br>30 Hp 240 V AC<br>50 Hp 480 V AC<br>50 Hp 600 V AC<br>5 Hp 120 V AC<br>10 hp 240 V AC  |
| IEC Rated Operational Power in W             | 55 KW 400 V AC-23A)<br>45 KW 500 V AC-23A)<br>45 kW 690 V AC-23A)  |
| [Ie] Rated Operational Current               | 100 A Ue: 600 V UL98<br>100 A AC-21A Ue: 400 V<br>100 A AC-21A Ue: 500 V<br>100 A AC-21A Ue: 690 V<br>100 A AC-22A Ue: 400 V<br>100 A AC-22A Ue: 500 V<br>100 A AC-22A Ue: 690 V<br>100 A AC-23A Ue: 400 V<br>80 A AC-23A Ue: 500 V<br>47 A AC-23A Ue: 690 V |
| [Ith] Conventional Free Air Thermal Current  | 100 A (at 131 °F (55 °C))  |
| [Ithe] Conventional Enclosed Thermal Current | 100 A  |
| Making Capacity ( I Rms)                     | 150 A 690 V AC-21A<br>300 A 690 V AC-22A<br>1000 A 690 V AC-23A  |
| Breaking Capacity                            | 150 A 690 V AC-21A)<br>300 A 690 V AC-22A)<br>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   |

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|  |   |
|--|---|
| [Icw] Rated Short Time Withstand Current | 2500 A 690 V 1 s  |
| [Uimp] Rated Impulse Withstand Voltage   | 8 kV  |
| Suitability for Isolation                | Yes   |
| Network Type                             | AC  |
| Network Frequency                        | 50/60 Hz  |
| Intermittent Duty Class                  | Class 120 - 60 %  |
| Control Type                             | Rotary handle   |
| Rotary Handle Mounting Style             | Direct  |
| Handle Color                             | Black   |
| Handle Front Plate Color                 | Grey  |
| Rotary Handle Padlocking                 | 1 padlock 0.16 in (4 mm)  |
| Marking                                  | 0 - 1   |
| 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 <sup>2</sup> (50 mm <sup>2</sup> ) solid<br>Power circuit screw clamp terminals 0.11 in <sup>2</sup> (70 mm <sup>2</sup> ) flexible - without cable end |
| Tightening Torque                        | Power circuit 44.25...53.10 lbf.in (5...6 N.m) screw clamp terminals  |
| Height                                   | 2.95 in (75 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<br>CSA C22.2 No 4<br>IEC 60947-3  |
| Product Certifications                | cULus[RETURN]GL  |
| Degree of Protection                  | IP20 conforming to IEC 60529   |
| Mechanical Robustness                 | Vibrations 2...100 Hz Fc 0.7 g) IEC 60068-2-6<br>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  |
| Compatibility Code                    | VLS  |

## Ordering and shipping details

|                   |                                     |
|-------------------|-------------------------------------|
| Category          | 21734-TESYS VLS DISCONNECT SWITCHES |
| Discount Schedule | CP1                                 |
| GTIN              | 3606481156495                       |
| Returnability     | Yes                                 |
| Country of origin | IT                                  |

## 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>        |
| RoHS exemption information | <a href="#">Yes</a>                           |