

# VLS3P016R1

Disconnect switch, TeSys VLS, body switch, 16A, 10HP at 480VAC, UL508, three phase, 5kA SCCR, size 1, 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                 | 5 Hp 200/208 V AC<br>5 Hp 240 V AC<br>10 Hp 480 V AC<br>10 Hp 600 V AC<br>1 Hp 120 V AC<br>2 hp 240 V AC                                                                                                                                               |
| IEC Rated Operational Power in W             | 7.5 KW 400 V AC-23A)<br>7.5 KW 500 V AC-23A)<br>11 kW 690 V AC-23A)                                                                                                                                                                                    |
| [Ie] Rated Operational Current               | 16 A Ue: 600 V UL 508<br>16 A AC-21A Ue: 400 V<br>16 A AC-21A Ue: 500 V<br>16 A AC-21A Ue: 690 V<br>16 A AC-22A Ue: 400 V<br>16 A AC-22A Ue: 500 V<br>16 A AC-22A Ue: 690 V<br>16 A AC-23A Ue: 400 V<br>16 A AC-23A Ue: 500 V<br>16 A AC-23A Ue: 690 V |
| [Ith] Conventional Free Air Thermal Current  | 16 A 131 °F (55 °C)                                                                                                                                                                                                                                    |
| [Ithe] Conventional Enclosed Thermal Current | 16 A                                                                                                                                                                                                                                                   |
| Making Capacity ( I Rms)                     | 24 A 690 V AC-21A<br>48 A 690 V AC-22A<br>160 A 690 V AC-23A                                                                                                                                                                                           |
| Breaking Capacity                            | 24 A 690 V AC-21A)<br>48 A 690 V AC-22A)<br>128 A 690 V AC-23A)                                                                                                                                                                                        |
| SCCR                                         | Fuse RK5 30 A maximum: 5 kA at 600 V AC                                                                                                                                                                                                                |
| Rated Conditional Short Circuit Current      | 50 kA 400 V 16 A gG                                                                                                                                                                                                                                    |
| [Icm] Rated Short Circuit Making Capacity    | 1128 A 690 V                                                                                                                                                                                                                                           |

|                                          |                                                                                                                                                                                                     |
|------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| [Icw] Rated Short Time Withstand Current | 800 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                    | 100000 cycles                                                                                                                                                                                       |
| Electrical Durability                    | 100000 cycles AC-21A                                                                                                                                                                                |
| UL Wire Size                             | AWG 18...AWG 6 copper                                                                                                                                                                               |
| IEC Terminal Connection                  | Power circuit screw clamp terminals 0.02 in <sup>2</sup> (10 mm <sup>2</sup> ) solid<br>Power circuit screw clamp terminals 0.02 in <sup>2</sup> (16 mm <sup>2</sup> ) flexible - without cable end |
| Tightening Torque                        | Power circuit 15.93...17.70 lbf.in (1.8...2 N.m) screw clamp terminals                                                                                                                              |
| Height                                   | 2.95 in (75 mm)                                                                                                                                                                                     |
| Width                                    | 1.42 in (36 mm)                                                                                                                                                                                     |
| Depth                                    | 3.07 in (78 mm)                                                                                                                                                                                     |
| Product Weight                           | 0.30 lb(US) (0.135 kg)                                                                                                                                                                              |

## Environment

|                                       |                                                                                        |
|---------------------------------------|----------------------------------------------------------------------------------------|
| Standards                             | UL 508<br>CSA C22.2 No 14<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              | 3606481156433                       |
| 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 (8.0 cm)  |
| Package 1 Width              | 3.35 in (8.5 cm)  |
| Package 1 Length             | 4.72 in (12.0 cm) |
| Package 1 Weight             | 5.93 oz (168.0 g) |

## 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>                           |