

# XPSVNE1142P

module XPSVN - zero speed detection - 24 V DC  
for motor power supply <= 60 Hz



Price\* : 314.00 GBP



## Main

|                               |                                                                                                                                                                                                                                                                                                                                   |
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| Range of product              | Preventa Safety automation                                                                                                                                                                                                                                                                                                        |
| Product or component type     | Preventa safety module                                                                                                                                                                                                                                                                                                            |
| Safety module name            | XPSVNE                                                                                                                                                                                                                                                                                                                            |
| Safety module application     | For zero speed detection                                                                                                                                                                                                                                                                                                          |
| Function of module            | Monitoring 3-phase motor with star-delta starting<br>Monitoring 3-phase motor with variable number of poles and star-delta starting<br>Monitoring 3-phase motor + variable speed drive<br>Monitoring 3-phase motor<br>Monitoring XPS AK<br>Monitoring star-delta motor starter and guard switch type XCS E<br>Monitoring dc motor |
| Safety level                  | Can reach PL d/category 3 conforming to EN/ISO 13849-1<br>Can reach SILCL 2 conforming to EN/IEC 62061                                                                                                                                                                                                                            |
| Safety reliability data       | MTTFd = 124.1 years conforming to EN/ISO 13849-1<br>DC > 99 % conforming to EN/ISO 13849-1<br>PFHd = 9.26E-9 1/h conforming to EN/IEC 62061                                                                                                                                                                                       |
| [Us] rated supply voltage     | 24 V DC - 15...10 %                                                                                                                                                                                                                                                                                                               |
| Output type                   | Relay, 1 NO + 1 NC circuit(s), volt-free                                                                                                                                                                                                                                                                                          |
| Number of additional circuits | 2 solid state outputs                                                                                                                                                                                                                                                                                                             |

## Complementary

|                                |                                                                                                                                                                                                  |
|--------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product destination            | For motor power supply <= 60 Hz                                                                                                                                                                  |
| Maximum power consumption in W | 3.5 W                                                                                                                                                                                            |
| Input voltage                  | 500 Vrms                                                                                                                                                                                         |
| Input detection threshold      | 0.01...0.1 V                                                                                                                                                                                     |
| Breaking capacity              | 180 VA holding AC-15 C300 relay output<br>1800 VA inrush AC-15 C300 relay output                                                                                                                 |
| Breaking capacity              | 1.2 A at 24 V (DC-13) time constant: 50 ms for NC relay output circuit<br>1.5 A at 24 V (DC-13) time constant: 50 ms for NO relay output circuit<br>10 mA at 48 V for solid state output circuit |

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|                                             | 20 mA at 24 V for solid state output circuit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| [Ith] conventional free air thermal current | 2.5 A for relay output                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Associated fuse rating                      | 4 A gG for relay output conforming to EN/IEC 60947-5-1, DIN VDE 0660 part 200                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Minimum output current                      | 10 mA for relay output                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Minimum output voltage                      | 17 V for relay output                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| [Ui] rated insulation voltage               | 300 V (pollution degree 2) conforming to IEC 60947-5-1<br>300 V (pollution degree 2) conforming to DIN VDE 0110 parts 1 and 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| [Uimp] rated impulse withstand voltage      | 4 kV overvoltage category III conforming to IEC 60947-5-1<br>4 kV overvoltage category III conforming to DIN VDE 0110 parts 1 and 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Local signalling                            | 4 LEDs                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Connections - terminals                     | Captive screw clamp terminals, removable terminal block flexible cable: 0.2...1.5 mm <sup>2</sup> without cable end, 2 wires<br>Captive screw clamp terminals, removable terminal block flexible cable: 0.2...2.5 mm <sup>2</sup> without cable end, 1 wire<br>Captive screw clamp terminals, removable terminal block flexible cable: 0.25...1 mm <sup>2</sup> with cable end, without bezel, 2 wires<br>Captive screw clamp terminals, removable terminal block flexible cable: 0.25...2.5 mm <sup>2</sup> with cable end, with bezel, 1 wire<br>Captive screw clamp terminals, removable terminal block flexible cable: 0.25...2.5 mm <sup>2</sup> with cable end, without bezel, 1 wire<br>Captive screw clamp terminals, removable terminal block flexible cable: 0.5...1.5 mm <sup>2</sup> with cable end, with double bezel, 2 wires<br>Captive screw clamp terminals, removable terminal block solid cable: 0.2...1 mm <sup>2</sup> without cable end, 2 wires<br>Captive screw clamp terminals, removable terminal block solid cable: 0.2...2.5 mm <sup>2</sup> without cable end, 1 wire |
| Mounting support                            | 35 mm symmetrical DIN rail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Depth                                       | 114 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Height                                      | 99 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Width                                       | 45 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Product weight                              | 0.5 kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

## Environment

|                                       |                                                                                            |
|---------------------------------------|--------------------------------------------------------------------------------------------|
| Standards                             | EN/IEC 60947-5-1<br>EN/IEC 60204-1                                                         |
| Product certifications                | CSA<br>UL<br>TÜV                                                                           |
| IP degree of protection               | IP20 (terminals) conforming to EN/IEC 60529<br>IP40 (enclosure) conforming to EN/IEC 60529 |
| Ambient air temperature for operation | -10...55 °C                                                                                |
| Ambient air temperature for storage   | -25...85 °C                                                                                |

## Offer Sustainability

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|----------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| Sustainable offer status   | Green Premium product                                                                                                       |
| REACH Regulation           | <a href="#">REACH Declaration</a>                                                                                           |
| EU RoHS Directive          | Pro-active compliance (Product out of EU RoHS legal scope)<br><a href="#">EU RoHS Declaration</a>                           |
| Mercury free               | Yes                                                                                                                         |
| RoHS exemption information | <a href="#">Yes</a>                                                                                                         |
| China RoHS Regulation      | <a href="#">China RoHS declaration</a>                                                                                      |
| Environmental Disclosure   | <a href="#">Product Environmental Profile</a>                                                                               |
| Circularity Profile        | <a href="#">End of Life Information</a>                                                                                     |
| WEEE                       | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins |

## Contractual warranty

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| Warranty | 18 months |
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## Dimensions

