

# SSP3A225F7RT

solid state relay -panel-input 90-140VAC, output  
48-530VAC,25A-Thermal Interface



## Main

|                           |                   |
|---------------------------|-------------------|
| Commercial Status         | Commercialised    |
| Range of product          | Zelio Relay       |
| Product or component type | Solid state relay |
| Provided equipment        | Thermal interface |
| Device short name         | SSP               |
| Network number of phases  | 3 phases          |

## Complementary

|                               |                                                                                                                                                               |
|-------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Mounting support              | Panel                                                                                                                                                         |
| [In] rated current            | 25 A                                                                                                                                                          |
| Output voltage                | 48...530 V AC                                                                                                                                                 |
| Control circuit voltage       | 90...140 V AC                                                                                                                                                 |
| Contacts type and composition | 3 NO                                                                                                                                                          |
| Tightening torque             | 1.7...2.2 N.m for output<br>0.9...1.1 N.m for input                                                                                                           |
| Connections - terminals       | Screw terminals 1 x 1.5...1 x 10 mm <sup>2</sup> for output - AWG 16...AWG 8<br>Screw terminals 1 x 0.2...1 x 2.5 mm <sup>2</sup> for input - AWG 24...AWG 14 |
| Capacitance unbalance         | <= 8 pF for input/output                                                                                                                                      |
| Insulation resistance         | >= 1000 MOhm at 500 V DC                                                                                                                                      |
| Local signalling              | LED green for input status                                                                                                                                    |
| Switching voltage             | >= 90 V AC turn-on<br><= 10 V AC turn-off                                                                                                                     |
| Input current limits          | 7...16 mA                                                                                                                                                     |
| Solid state output type       | Random voltage switching                                                                                                                                      |
| Load current                  | 0.1...25 A                                                                                                                                                    |
| Absolute maximum voltage      | 1200 V                                                                                                                                                        |
| Surge current                 | <= 85 A for 1 s<br><= 300 A for 16.6 ms<br><= 275 A for 20 ms                                                                                                 |
| Voltage drop                  | <= 1.35 V on-state                                                                                                                                            |
| Motor power kW                | 3.24 kW at 40 °C 530 V AC<br>2.22 kW at 40 °C 480 V AC<br>0.74 kW at 40 °C 240 V AC<br>0.56 kW at 40 °C 120 V AC                                              |
| Motor power hp                | 4.4 hp at 40 °C 530 V AC<br>3 hp at 40 °C 480 V AC<br>1 hp at 40 °C 240 V AC<br>0.75 hp at 40 °C 120 V AC                                                     |
| Thermal resistance            | 0.24 °C/W                                                                                                                                                     |

|                                     |                                                                                                             |
|-------------------------------------|-------------------------------------------------------------------------------------------------------------|
| Maximum I <sup>2</sup> t for fusing | 370 A <sup>2</sup> .s for 8.3 ms at 60 Hz half cycle<br>380 A <sup>2</sup> .s for 10 ms at 50 Hz half cycle |
| Leakage current                     | <= 3 mA off-state                                                                                           |
| DV/Dt                               | 500 V/μs off-state at maximum voltage                                                                       |
| Response time                       | 30 ms turn-off<br>20 ms turn-on                                                                             |
| Cos phi                             | >= 0.5 with maximum load                                                                                    |
| Overvoltage category                | III                                                                                                         |
| Width                               | 101.3 mm                                                                                                    |
| Height                              | 79.7 mm                                                                                                     |
| Depth                               | 35.4 mm                                                                                                     |
| Product weight                      | 0.36 kg                                                                                                     |

## Environment

|                                       |                                                                 |
|---------------------------------------|-----------------------------------------------------------------|
| Flame retardance                      | V0 conforming to UL 94                                          |
| Dielectric strength                   | 4 kV AC for input or output to case<br>4 kV AC for input/output |
| Pollution degree                      | 2                                                               |
| Standards                             | IEC 61000<br>IEC 60950-1<br>IEC 62314                           |
| Product certifications                | CSA<br>RoHS<br>UL<br>REACH                                      |
| Marking                               | CE                                                              |
| IP degree of protection               | IP20                                                            |
| Ambient air temperature for operation | -40...80 °C                                                     |
| Ambient air temperature for storage   | -40...125 °C                                                    |

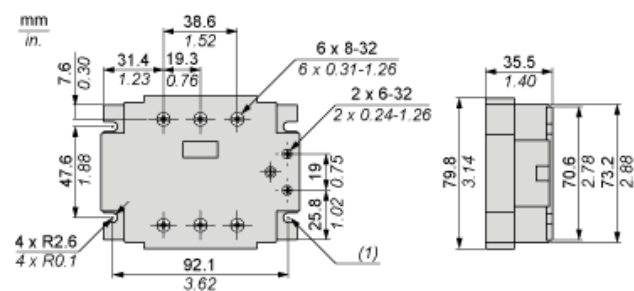
## Ordering and shipping details

|                       |                                   |
|-----------------------|-----------------------------------|
| Category              | 22375 - INTERFACE MODULE(ABA,R,S) |
| Discount Schedule     | CP2                               |
| GTIN                  | 00785901978190                    |
| Nbr. of units in pkg. | 1                                 |
| Package weight(Lbs)   | 0.79                              |
| Returnability         | N                                 |
| Country of origin     | MX                                |

## Offer Sustainability

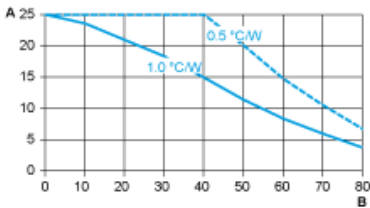
|                                  |                                                                                                                                              |
|----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| Sustainable offer status         | Green Premium product                                                                                                                        |
| REACH                            | Reference not containing SVHC above the threshold                                                                                            |
| Product environmental profile    | Available  <a href="#">Download Product Environmental</a> |
| Product end of life instructions | Available  <a href="#">Download End Of Life Manual</a>    |

## Dimensions



(1) 4 Mounting slots

Derating Curves



A : Load Current (Amperes)  
B : Ambient Temperature (°C)