

# SSM1A16BDR

solid state relay - DIN rail mount - input 4-32 V DC, output 24-280 V AC ,6A



Product availability: Stock - Normally stocked in distribution facility



## Main

|                           |                   |
|---------------------------|-------------------|
| Range of product          | Zelio Relay       |
| Product or component type | Solid state relay |
| Device short name         | SSM               |
| Number of channels        | 1                 |
| Phase                     | 1 phase           |

## Complementary

|                                     |                                                                                                                                                                 |
|-------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Mounting support                    | Symmetrical DIN rail                                                                                                                                            |
| Line Rated Current                  | 6 A                                                                                                                                                             |
| Output voltage                      | 24...280 V AC                                                                                                                                                   |
| [Uc] control circuit voltage        | 4...32 V DC                                                                                                                                                     |
| Contacts type and configuration     | 1 NO                                                                                                                                                            |
| Tightening torque                   | Input : 0.5...0.8 N.m<br>Output : 0.5...0.8 N.m                                                                                                                 |
| Connections - terminals             | Screw terminals : 1 x 0.3...1 x 1.5 mm <sup>2</sup> , (AWG 22...AWG 16) input<br>Screw terminals : 1 x 0.3...1 x 2.5 mm <sup>2</sup> , (AWG 22...AWG 14) output |
| Maximum capacitance                 | 10 pF input/output                                                                                                                                              |
| Insulation resistance               | 1000 MOhm at 500 V DC                                                                                                                                           |
| Local signalling                    | LED green input status                                                                                                                                          |
| Minimum switching voltage           | 4 V DC turn-on                                                                                                                                                  |
| Maximum switching voltage           | 1 V DC turn-off                                                                                                                                                 |
| Input current                       | 8...11 mA                                                                                                                                                       |
| Solid state output type             | SCR output<br>Random voltage switching                                                                                                                          |
| Load current                        | 0.15...6 A                                                                                                                                                      |
| Transient overvoltage               | 600 V                                                                                                                                                           |
| Surge current                       | 285 A for 16.6 ms<br>300 A for 20 ms                                                                                                                            |
| Voltage drop                        | <= 1.3 V on-state                                                                                                                                               |
| Motor power hp                      | 0.16 hp at <= 40 °C 240 V AC                                                                                                                                    |
| Maximum I <sup>2</sup> t for fusing | 375 A <sup>2</sup> .s 8.33 ms at 60 Hz half cycle<br>410 A <sup>2</sup> .s 10 ms at 50 Hz half cycle                                                            |
| Leakage current                     | <= 0.1 mA off-state                                                                                                                                             |
| DV/dt                               | 500 V/μs off-state at maximum voltage                                                                                                                           |
| Response time                       | 0.5 cycle turn-off<br>0.1 ms turn-on                                                                                                                            |
| Power factor                        | 0.5 with maximum load                                                                                                                                           |
| Overvoltage category                | III                                                                                                                                                             |
| Width                               | 0.43 in (11 mm)                                                                                                                                                 |
| Height                              | 90.3 mm                                                                                                                                                         |
| Depth                               | 83.7 mm                                                                                                                                                         |
| Product weight                      | 0.11 lb(US) (0.05 kg)                                                                                                                                           |

## Environment

|                                       |                                                         |
|---------------------------------------|---------------------------------------------------------|
| Flame retardance                      | V0 conforming to UL 94                                  |
| Dielectric strength                   | 4 kV AC input/output<br>4 kV AC input or output to case |
| Pollution degree                      | 2                                                       |
| Standards                             | IEC 61000<br>IEC 60950-1<br>IEC 62314                   |
| Product certifications                | CSA<br>UL<br>REACH                                      |
| Marking                               | CE                                                      |
| IP degree of protection               | IP20                                                    |
| Ambient air temperature for operation | -22...176 °F (-30...80 °C)                              |
| Ambient air temperature for storage   | -22...212 °F (-30...100 °C)                             |

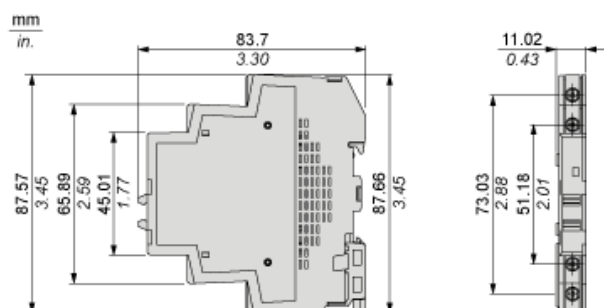
## Ordering and shipping details

|                       |                                   |
|-----------------------|-----------------------------------|
| Category              | 22375 - INTERFACE MODULE(ABA,R,S) |
| Discount Schedule     | CP2                               |
| GTIN                  | 00785901968399                    |
| Nbr. of units in pkg. | 1                                 |
| Package weight(Lbs)   | 0.17000000000000001               |
| Returnability         | Y                                 |
| Country of origin     | MX                                |

## Offer Sustainability

|                                  |                                                                                                                                    |
|----------------------------------|------------------------------------------------------------------------------------------------------------------------------------|
| Sustainable offer status         | Green Premium product                                                                                                              |
| RoHS (date code: YYWW)           | Compliant - since 1328 - Schneider Electric declaration of conformity <a href="#">Schneider Electric declaration of conformity</a> |
| REACH                            | Reference not containing SVHC above the threshold                                                                                  |
| Product environmental profile    | Available                                                                                                                          |
| Product end of life instructions | Available                                                                                                                          |
| California proposition 65        | WARNING: This product can expose you to chemicals including:                                                                       |
| - - - - - Substance 1            | Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm.   |
| - - - - - More information       | For more information go to <a href="http://www.p65warnings.ca.gov">www.p65warnings.ca.gov</a>                                      |

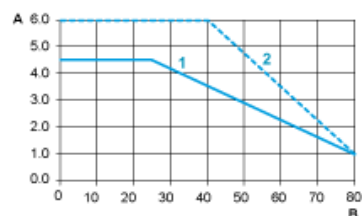
Dimensions



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Derating Curves

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A : Load Current (Amperes)

B : Ambient Temperature (°C)

1 : Multiple units, no minimum spacing between components

2 : Installed single unit, distance to adjacent components more than 11 mm

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