



Main

|                           |                   |
|---------------------------|-------------------|
| Range of product          | Zelio Relay       |
| Product or component type | Solid state relay |
| Device short name         | SSM1              |
| Phase                     | 1 phase           |

Complementary

|                                     |                                                                                                                                                                |
|-------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Mounting support                    | Symmetrical DIN rail                                                                                                                                           |
| Line Rated Current                  | 45 A                                                                                                                                                           |
| Output voltage                      | 48...660 V AC                                                                                                                                                  |
| [Uc] control circuit voltage        | 90...140 V AC                                                                                                                                                  |
| Contacts type and composition       | 1 NO                                                                                                                                                           |
| Tightening torque                   | Input : 0.6...0.7 N.m<br>Output : 1.36...1.7 N.m                                                                                                               |
| Connections - terminals             | Screw terminals : 1 x 0.2...1 x 3.3 mm <sup>2</sup> , (AWG 24...AWG 12) input<br>Screw terminals : 1 x 0.2...1 x 8.4 mm <sup>2</sup> , (AWG 24...AWG 8) output |
| Capacitance unbalance               | <= 8 pF input/output                                                                                                                                           |
| Insulation resistance               | 1000 MOhm at 500 V DC                                                                                                                                          |
| Local signalling                    | LED green input status                                                                                                                                         |
| Switching voltage                   | 90 V AC turn-on<br>10 V AC turn-off                                                                                                                            |
| Input current limits                | 15 mA at 120 Vrms                                                                                                                                              |
| Solid state output type             | Zero voltage switching<br>SCR output                                                                                                                           |
| Load current                        | 0.15...45 A                                                                                                                                                    |
| Absolute maximum voltage            | 1200 V                                                                                                                                                         |
| Surge current                       | <= 625 A for 16.6 ms                                                                                                                                           |
| Voltage drop                        | 1.7 V on-state                                                                                                                                                 |
| Maximum I <sup>2</sup> t for fusing | 1620 A <sup>2</sup> .s 8.3 ms                                                                                                                                  |
| Leakage current                     | <= 1 mA off-state                                                                                                                                              |
| DV/dt                               | 500 V/μs off-state at maximum voltage                                                                                                                          |
| Response time                       | 10 ms turn-on<br>40 ms turn-off                                                                                                                                |
| Overvoltage category                | III                                                                                                                                                            |
| Product weight                      | 1.05 lb(US) (0.476 kg)                                                                                                                                         |

Environment

|                        |                                                         |
|------------------------|---------------------------------------------------------|
| dielectric strength    | 4 kV AC input/output<br>4 kV AC input or output to case |
| pollution degree       | 2                                                       |
| standards              | UL 508<br>IEC 60950-1<br>CSA C22.2 No 14                |
| product certifications | CSA<br>UL<br>EAC                                        |

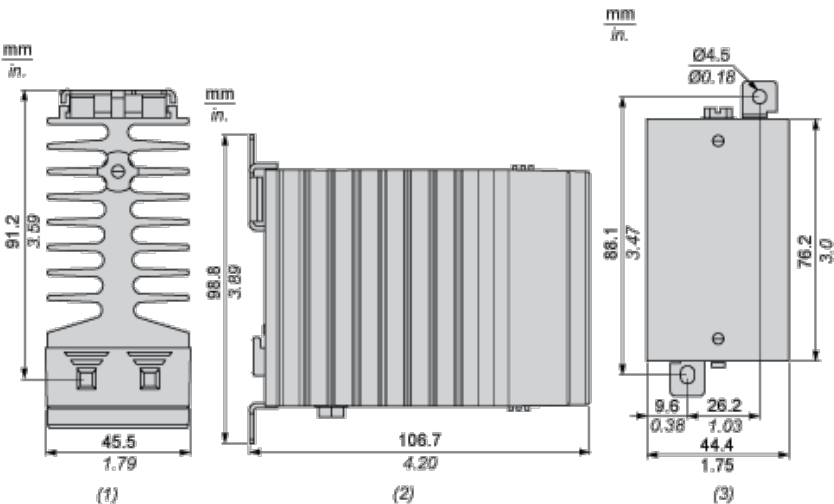
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|                                       |                             |
|---------------------------------------|-----------------------------|
| marking                               | CE<br>CSA<br>UL<br>EAC      |
| IP degree of protection               | IP20                        |
| ambient air temperature for operation | -40...176 °F (-40...80 °C)  |
| ambient air temperature for storage   | -40...257 °F (-40...125 °C) |

Offer Sustainability

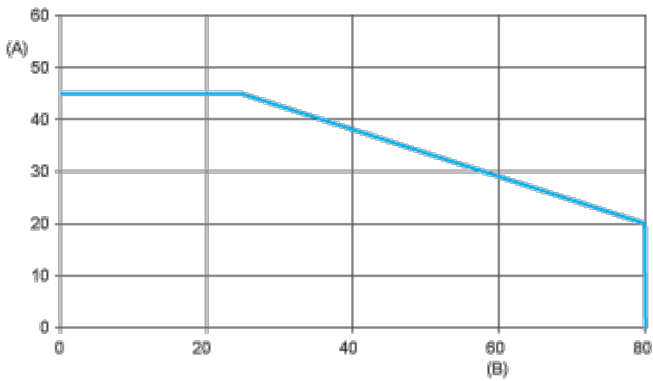
|                                                                                                                                  |                                                                                                                                  |
|----------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| Green Premium product                                                                                                            | Green Premium product                                                                                                            |
| Compliant - since 1522 - Schneider Electric declaration of conformity                                                            | Compliant - since 1522 - Schneider Electric declaration of conformity                                                            |
| Reference not containing SVHC above the threshold                                                                                | Reference not containing SVHC above the threshold                                                                                |
| Available                                                                                                                        | Available                                                                                                                        |
| Available                                                                                                                        | Available                                                                                                                        |
| WARNING: This product can expose you to chemicals including:                                                                     | WARNING: This product can expose you to chemicals including:                                                                     |
| Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. | Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. |
| For more information go to <a href="http://www.p65warnings.ca.gov">www.p65warnings.ca.gov</a>                                    | For more information go to <a href="http://www.p65warnings.ca.gov">www.p65warnings.ca.gov</a>                                    |

Dimensions



- (1) Top view
- (2) Side view
- (3) Front view

Derating Curves



A : Load Current (Amperes)

B : Ambient Temperature (°C)

## Данный компонент на территории Российской Федерации

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В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

### Офис по работе с юридическими лицами:

105318, г.Москва, ул.Щербаковская д.3, офис 1107, 1118, ДЦ «Щербаковский»

Телефон: +7 495 668-12-70 (многоканальный)

Факс: +7 495 668-12-70 (доб.304)

E-mail: [info@moschip.ru](mailto:info@moschip.ru)

Skype отдела продаж:

moschip.ru

moschip.ru\_4

moschip.ru\_6

moschip.ru\_9