### Main
- **Range of product**: Zelio Relay
- **Product or component type**: Solid state relay
- **Device short name**: SSM3
- **Number of channels**: 3
- **Network number of phases**: 3 phases

### Complementary
- **Mounting support**: Symmetrical DIN rail
- **Output voltage**: 48...600 V AC
- **Control circuit voltage**: 180...280 V AC
- **Contacts type and composition**: 3 NO
- **Tightening torque**: 1.36...1.7 N.m for output, 0.6...0.7 N.m for input
- **Connections - terminals**: Screw terminals: 0.2...1.3 mm² (AWG 24...AWG 16) for input, Screw terminals: 1.3...5.3 mm² (AWG 16...AWG 10) for output
- **Capacitance unbalance**: <= 8 pF for input/output
- **Insulation resistance**: 1000 MOhm
- **Local signalling**: LED green for input status
- **Switching voltage**: 10 V turn-off, 180 V turn-on
- **Input current limits**: 19...24 mA
- **Solid state output type**: Zero voltage switching
- **Load current**: 0.1...25 A
- **Absolute maximum voltage**: 1100 V
- **Surge current**: <= 286 A for 20 ms at 50 Hz, <= 300 A for 16.6 ms at 60 Hz
- **Voltage drop**: 1.35 V on-state
- **Motor power hp**: 1 hp at 40 °C 240 V AC, 3 hp at 40 °C 480 V AC
Maximum I^2t for fusing | 2 hp at 40 °C 380 V AC  
| 410 A^2.s for 10 ms at 50 Hz half cycle  
| 374 A^2.s for 8.3 ms at 60 Hz half cycle  

Leakage current | <= 0.25 mA off-state  

DV/DT | 500 V/μs off-state at maximum voltage  

Response time | 30 ms turn-off  
| 20 ms turn-on  

Cos phi | 0.5 with maximum load  

Overvoltage category | III  

Product weight | 0.74 kg  

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**Environment**

Dielectric strength | 4 kV AC for input/output  
| 4 kV AC for input or output to case  

Pollution degree | 2  

Standards | CSA C22.2 No 14  
| IEC 60950-1  
| UL 508  

Product certifications | EAC  
| CSA  
| UL  

Marking | CE  
| CSA  
| UL  
| EAC  

IP degree of protection | IP20  

Ambient air temperature for operation | -20...60 °C  

Ambient air temperature for storage | -40...100 °C  

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**Offer Sustainability**

Sustainable offer status | Not Green Premium product  

RoHS (date code: YYWW) | Compliant - since 1522 - Schneider Electric declaration of conformity  
[Schneider Electric declaration of conformity]  

Product environmental profile | Available  
[Product environmental]  

Product end of life instructions | Available  
[End of life manual]
Dimensions

(1) Side view
(2) Top view
(3) Front view
(A) Mounting hole
(B) Mounting hole / slot
Derating Curves

\[
\text{(A) Output Current (Arms)} \\
\text{(B) Ambient Temperature (°C)}
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