



Main

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| Range of product | Interface for discrete signals |
| Product or component type | Slim solid state output interface module |
| Contacts type and composition | 1 NC |
| [Uc] control circuit voltage | 24 V |
| Control circuit type | DC |
| Line Rated Current | <= 13.6 mA |
| Reverse polarity protection | Internal control circuit Internal output circuit |
| Short-circuit protection | 3.15 A external fuse fast blow (Ik <= 1 kA AC and Ik <= 100 A DC) |
| [Ith] conventional free air thermal current | 3 Aat 104 °F (40 °C) |
| Local signalling | Green mechanical indicator for position of contacts and 1 green LED control signal state |
| Sale per indivisible quantity | 1 |
| Width pitch dimension | 0.69 in (17.5 mm) |

Complementary

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|----------------------------------|--|
| Control circuit voltage limits | 28.8 V |
| Voltage state 1 guaranteed | 16.9 V |
| Current state 1 guaranteed | 8.3 mA |
| Voltage state 0 guaranteed | 5.3 V |
| Current state 0 guaranteed | 2 mA |
| [Ue] rated operational voltage | 24...240 V |
| Output circuit type | AC |
| Rated operational voltage limits | <= 264 V |
| [Ie] rated operational current | 1 A AC-15 vertical position, single product conforming to IEC 60947-5-1 1 A AC-15 vertical position, touching product conforming to IEC 60947-5-1 1.6 A AC-13 vertical position, single product conforming to IEC 60947-5-1 1.6 A AC-14 vertical position, single product conforming to IEC 60947-5-1 2.1 A AC-12 vertical position, single product conforming to IEC 60947-5-1 1.5 A AC-12 vertical position, touching product conforming to IEC 60947-5-1 1.5 A AC-13 vertical position, touching product conforming to IEC 60947-5-1 1.5 A AC-14 vertical position, touching product conforming to IEC 60947-5-1 |
| Minimum switching current | 10 mA |
| Residual current | <= 2.5 mA |
| Drop-out voltage | <= 3 V Ie >= 10 mA <= 1.5 V Ie >= 100 mA |
| DV/dt | 500 V/μs |
| 0 crossing voltage | 50 V peak |
| Response time | <= 10 ms from state 0 to state 1at 50 Hz <= 10 ms from state 1 to state 0at 50 Hz <= 8 ms from state 0 to state 1at 60 Hz <= 8 ms from state 1 to state 0at 60 Hz |
| Switching frequency | <= 0.7 Hz AC-13 module alone duty cycle: 40 % <= 0.7 Hz AC-14 module alone duty cycle: 40 % <= 0.7 Hz AC-15 module alone duty cycle: 40 % <= 50 Hz on resistive load duty cycle: 50 % |
| [Ui] rated insulation voltage | 250 V conforming to VDE 0110 group C 300 V conforming to IEC 60947-1 |
| Flame retardance | V0 conforming to UL 94 |
| Cable cross section | 0...0.01 in ² (0.27...4 mm ²), 1 wire rigid 0...0 in ² (0.34...2.5 mm ²), 1 or 2 wires flexible with cable end 0...0 in ² (0.6...2.5 mm ²), 1 or 2 wires flexible without cable end screw clamp terminal |

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| | |
|-----------------------|---|
| Operating position | Any position |
| Installation category | II conforming to IEC 60947-1 |
| Mounting support | Asymmetrical DIN rail Combination rail Symmetrical DIN rail |
| Product weight | 0.97 lb(US) (0.44 kg) |

Environment

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|---------------------------------------|--|
| dielectric strength | 2500 V between wired interface and earth for 1 minute 4000 V between I/O for 1 minute |
| standards | IEC 60947-5-1 |
| product certifications | BV CSA DNV LROS (Lloyds register of shipping) UL |
| IP degree of protection | IP20 conforming to IEC 60529 |
| protective treatment | TC |
| fire resistance | 1760 °F (960 °C) conforming to IEC 60695-2-1 |
| shock resistance | 30 gn 11 ms conforming to IEC 60068-2-27 |
| vibration resistance | 5 gn (f = 10...150 Hz) conforming to IEC 60068-2-6 |
| electromagnetic compatibility | 1.2/50 µs shock waves immunity test, 0.5 kV for U < 50 V conforming to IEC 60947-1 1.2/50 µs shock waves immunity test, 1.5 kV for U < 150 V conforming to IEC 60947-1 1.2/50 µs shock waves immunity test, 2.5 kV for U < 300 V conforming to IEC 60947-1 Electromagnetic field immunity test level 3, 10 V/m between 27...1000 MHz conforming to IEC 61000-4-3 Electrostatic discharge immunity test level 3, 8 kV conforming to IEC 61000-4-2 Fast transients immunity test level 3, on input/output 1 kV conforming to IEC 61000-4-4 Fast transients immunity test level 3, on power supply 2 kV conforming to IEC 61000-4-4 |
| ambient air temperature for operation | -13...158 °F (-25...70 °C) at Us 23...131 °F (-5...55 °C) unrestricted operation |
| ambient air temperature for storage | -40...176 °F (-40...80 °C) |
| operating altitude | <= 9842.52 ft (3000 m) |
| pollution degree | 2 conforming to IEC 60947-1 |

Offer Sustainability

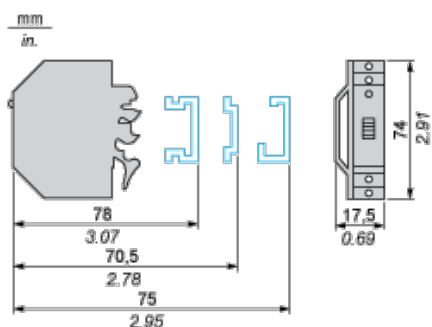
| | |
|--|--|
| WARNING: This product can expose you to chemicals including: | WARNING: This product can expose you to chemicals including: |
| Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. | Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. |
| For more information go to www.p65warnings.ca.gov | For more information go to www.p65warnings.ca.gov |

Contractual warranty

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|-----------------|-----------|
| Warranty period | 18 months |
|-----------------|-----------|

Slim Solid-State Interface Module

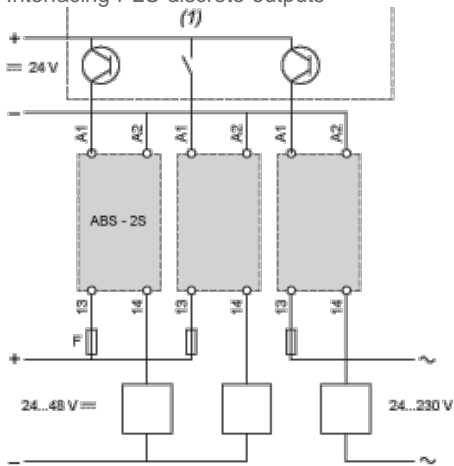
Dimensions



Slim Solid-State Interface Module

Example of Application with PLC

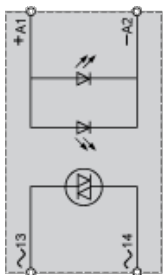
Interfacing PLC discrete outputs



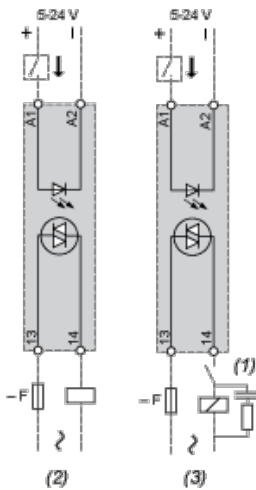
(1) PLC positive logic transistor (or relay) outputs

Solid-State Output Module

Circuit Diagram



Wiring Diagrams

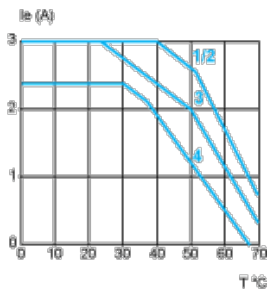


F fuse DF1 SS133.2

- (1) or peak limiter
- (2) Resistive load
- (3) Inductive load

Temperature Derating Curves - $U_c = U_s = 24\text{ V}$

AC Loads



- (1) Vertical module alone or adjacent to modules with low heat dissipation
- (2) Horizontal module alone or adjacent to modules with low heat dissipation
- (3) Vertical module mounted with 2 modules with identical heat dissipation on both sides
- (4) Horizontal module mounted with 2 modules with identical heat dissipation on both sides

NOTE: T°C is the ambient temperature.



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Наши контакты:

Телефон: +7 812 627 14 35

Электронная почта: sales@st-electron.ru

Адрес: 198099, Санкт-Петербург,
Промышленная ул, дом № 19, литера Н,
помещение 100-Н Офис 331