# Product data sheet
## Characteristics

# 6312AXXMDS-DC3
Relay, SE Relays, solid state, SPST NO, 12A, 3… 200 VDC, 3...32 VDC Uc, MOSFET DC switching, screw terminal




## Main

| | |
|---|---|
| Range | Legacy |
| Product Type | Solid state relay |
| Maximum output current | 12 A DC |
| Mounting Support | Panel |
| Network Number of Phases | 1 phase |
| Output Voltage | 3...200 V DC |
| Control Circuit Voltage | 3.5...32 V DC |

## Complementary

| | |
|---|---|
| Input Impedance | 1 kOhm |
| Holding Current | 20 mA |
| Input Current Limits | 10 mA DC typical |
| Switch Function | SPST |
| Contacts Type and Composition | NO |
| Protection Technology | Current limiter |
| Tightening Torque | 10 lb.in for input<br>20 lb.in for output |
| Connections Terminals | Input screw clamp terminal, 1<br>Output screw clamp terminals, 1 |
| Screw Type | M3.5<br>M4 |
| Local Signalling | for input status 1 LED (green) |
| Switching Device | Mosfet output<br>DC switching |
| Maximum Peak Voltage | 200 V |
| Surge Current | 27 A 16.6 ms |
| Must Release Voltage | 1 V |
| Voltage Drop | <2.8 V on-state DC |
| Power Factor | with maximum load |
| Insulating Resistance | 1 GΩ |

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

| | |
|---|---|
| Thermal Resistance | 1.06 °C/W |
| Leakage Current | 8 mA at off-state |
| Response Time | 300 ms (turn-on)<br>1 ms (turn-off) |
| Dielectric Strength | 2500 V between input and ground<br>2500 V between output and ground<br>2500 V between input and output |
| Height | 1.39 in (35.3 mm) |
| Width | 1.85 in (47.1 mm) |
| Depth | 2.30 in (58.4 mm) |
| Product Weight | 3.05 oz (86.5 g) |

## Environment

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|---|---|
| Product Certifications | UL<br>CSA<br>CE |
| IP Degree of Protection | IP20 |
| Ambient Air Temperature for Operation | -40…176 °F (-40…80 °C) |
| Ambient Air Temperature for Storage | -40…212 °F (-40…100 °C) |

## Ordering and shipping details

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|---|---|
| GTIN | 03606480277399 |

## Offer Sustainability

| | |
|---|---|
| California proposition 65 | 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. For more information go to www.P65Warnings.ca.gov |
| REACh Regulation | REACh Declaration |
| EU RoHS Directive | Pro-active compliance (Product out of EU RoHS legal scope)<br>EU RoHS Declaration |
| Mercury free | Yes |
| RoHS exemption information | Yes |
| China RoHS Regulation | China RoHS declaration |
| WEEE | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins. |

## Connections and Wiring Diagrams

