Product datasheet

Characteristics

SSM3A325BD
solid state relay - DIN rail mount - input 4-32Vdc, output 48-600Vac, 25A

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
(Uc) control circuit voltage 4...32 V DC
Contacts type and composition 3 NO
Tightening torque Input : 0.6...0.7 N.m
Output : 1.36...1.7 N.m
Connections - terminals Screw terminals : 0.2...1.3 mm², (AWG 24...AWG 16) for input
Screw terminals : 1...5.3 mm², (AWG 16...AWG 10) for output
Capacitance unbalance <= 8 pF for input/output
Insulation resistance 1000 MΩhm
Local signalling LED green for input status
Switching voltage 4 V DC turn-on
1 V DC turn-off
Input current limits 22...28 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
2 hp at 40 °C 380 V AC
Maximum Pt for fusing 410 A².s for 10 ms at 50 Hz half cycle
374 A².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 0.5 cycle turn-on
0.5 cycle turn-off
Cos phi 0.5 with maximum load
Overvoltage category III
Product weight 0.74 kg

Environment
dielectric strength 4 kV AC for input/output
4 kV AC for input or output to case
pollution degree 2
standards
UL 508
IEC 60950-1
CSA C22.2 No 14

product certifications
CSA
UL
EAC

marking
CE
CSA
UL
EAC

IP degree of protection
IP20

ambient air temperature for operation
-20...80 °C

ambient air temperature for storage
-40...100 °C

Offer Sustainability
Sustainable offer status
Green Premium product

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

REACH
Reference not containing SVHC above the threshold

Product environmental profile
Available

Product end of life instructions
Available

Dimensions

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

Derating Curves

A: Output Current (Arms)
B: Ambient Temperature (°C)