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Product data sheet
Characteristics

SSM3A325BDR
Solid state modular relay, Harmony, 25A, DIN rail mount, random switching, input 4…32V DC, output 48…600V AC



Main

Range of product	Harmony Solid State Relays
Product or component type	Solid state relay up to 30 A
Device short name	SSM3
Number of channels	3
Network number of phases	3 phases
Output switching mode	Random voltage switching

Complementary

Mounting support	Symmetrical DIN rail
[In] rated current	25 A
Output voltage	48...600 V AC
[Uc] control circuit voltage	4...32 V DC
Tightening torque	0.6...0.7 N.m for input 1.36...1.7 N.m for output
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	4 V DC turn-on 1 V DC turn-off
Input current limits	22…28 MA
Solid state output type	Random 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
Maximum voltage drop	<1.35 V on-state
Motor power hp	1 Hp 40 °C 240 V AC 2 Hp 40 °C 380 V AC 3 Hp 40 °C 480 V AC
Maximum I²t for fusing	410 A².S for 10 ms at 50 Hz 374 A².S for 8.3 ms at 60 Hz
Maximum leakage current	0.25 MA off-state
DV/dt	500 V/µs off-state at maximum voltage

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Response time	0.5 cycle (turn-off) 0.02 ms (turn-on)
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	UL EAC CSA
Marking	CSA EAC CE UL
IP degree of protection	IP20
Ambient air temperature for operation	-20…80 °C
Ambient air temperature for storage	-40…100 °C

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	14.0 Cm
Package 1 Width	11.0 Cm
Package 1 Length	11.0 Cm
Package 1 Weight	803.0 G
Unit Type of Package 2	S02
Number of Units in Package 2	5
Package 2 Height	15.0 Cm
Package 2 Width	30.0 Cm
Package 2 Length	40.0 Cm
Package 2 Weight	4.362 Kg

Offer Sustainability

Sustainable offer status	Green Premium product
REACh Regulation	REACh Declaration
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration
Mercury free	Yes
China RoHS Regulation	China RoHS Declaration
RoHS exemption information	Yes
Environmental Disclosure	Product Environmental Profile
Circularity Profile	End Of Life Information
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

Product Life Status : Commercialised