HS1A2NN025D024

MINIATURE SOLID STATE RELAY, SINGLE-PHASE, 25A, 4…30VDC, FASTON TERMINALS



Product designation			Solid state relay
Product type designation			HS1A
Type			single-phase
Input characteristics			
Control voltage			4...30VDC
Operating voltage limits			
	Operating voltage pick-up	V	4
	Operating voltage drop-out	V	1
Input current at min…max voltage		mA	3...29
Input reverse voltage		V	30
Operating times			
Switching-on			Half cycle max
Switching-off			Half cycle max
Output characteristics			
Switching mode			Zero crossing
Rated operating voltage		VAC	12...280
Blocking voltage		V	600
Operational frequency (min…max)		Hz	45...65
Rated operating current AC-51 (resistive load) at 40°C		A	25
Rated operating current AC-51 (resistive load) at 55°C		A	22
Heatsink for use at 40°C and 55°C at rated current AC-51		K/W	≤1.2
Rated operating current AC-53 (motor load) at 40°C		A	7
Operational current min		A	0.005
Non repetitive surge peak on state current t=10ms		A	250
Off state leakage current		mA	3
On state output voltage drop		V	1.3
Critical rate of rise of off-state voltage dv/dt		V/µs	500
Input - Output isolation		V	4000
Input - Output to metal base		V	2500
I2t		A2s	340
Terminal characteristics			
Control terminals		Type	Faston 4.8x0.8
Conductor section connectable (control terminals) with 1 or 2 wires min…max			
	AWG stranded	n°	16...14 (Faston lug)
	Flexible c/w insulated spade lug	mm2	0.75...6 (Faston lug)
Load terminals		Type	Faston 6.3x0.8
Conductor section connectable (load terminals) with 1 or 2 wires min…max			
	AWG stranded	n°	16...10 (Faston lug)
	Flexible c/w insulated spade lug	mm2	0.75...6 (Faston lug)
Operating position			
	allowable		Any

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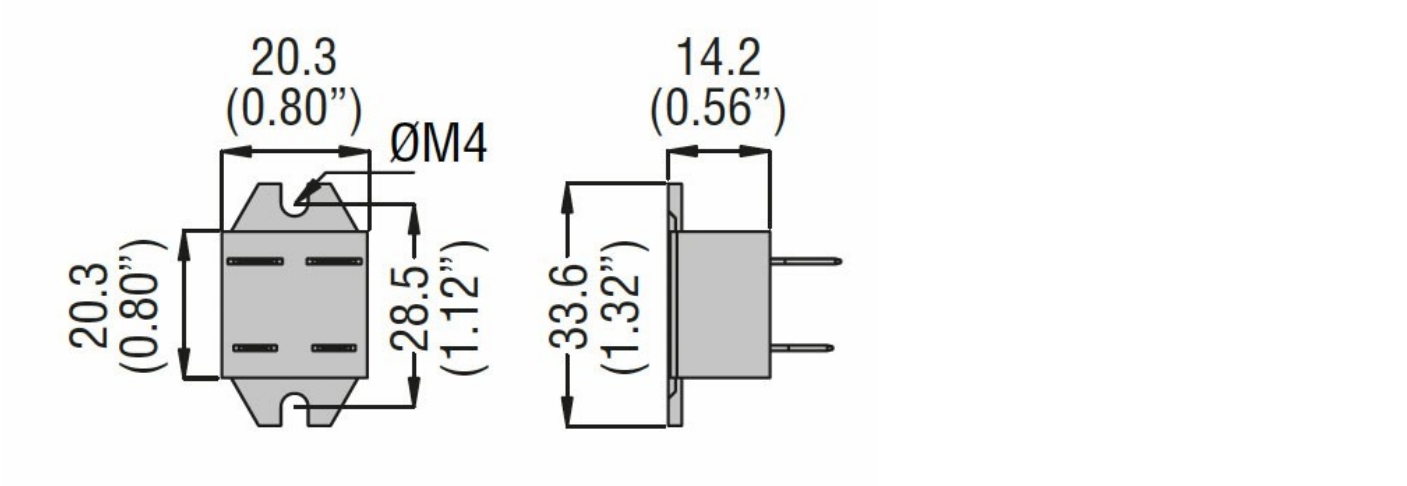
Fixing			Screw
Weight		g	13

Ambient conditions

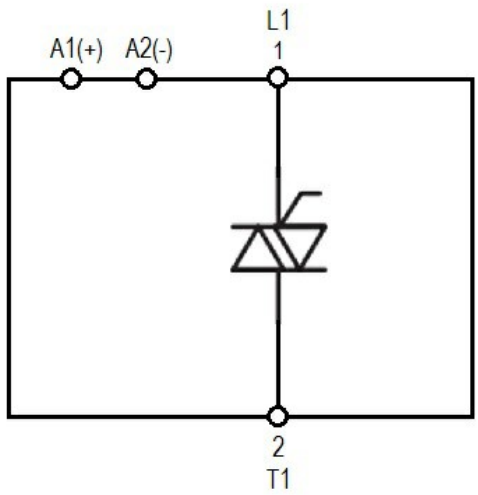
Temperature

Operating temperature			
	min	°C	-40
	max	°C	+90
Storage temperature			
	min	°C	-40
	max	°C	+100

Dimensions



Wiring diagrams



Certifications and compliance

Certifications

IEC/EN/BS 60335-1
IEC/EN/BS 60947-4-2
IEC/EN/BS 60947-4-3
IEC/EN/BS 62314

Compliance

cURus
VDE

ETIM classification

EC000066 - Power contactor, AC switching

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