HS1B6NN050D024

HOCKEY PUCK, SINGLE-PHASE, 50A, 3,5...32VDC, SCREW TERMINALS



Product designation			Solid state relay
Product type designation			HS1B
Type			single-phase
Input characteristics			
Control voltage			3.5...32VDC
Operating voltage limits			
	Operating voltage pick-up	V	3.5
	Operating voltage drop-out	V	2
Input current at min…max voltage		mA	10...13
Input reverse voltage		V	32
Operating times			
Switching-on			Half cycle max
Switching-off			Half cycle max
Output characteristics			
Switching mode			Zero crossing
Rated operating voltage		VAC	24…600
Blocking voltage		V	1200
Operational frequency (min…max)		Hz	45...65
Rated operating current AC-51 (resistive load) at 40°C		A	50
Rated operating current AC-51 (resistive load) at 55°C		A	42
Thermal resistance between junction to case		K/W	0.55
Heatsink for use at 40°C and 55°C at rated current AC-51		K/W	≤0.9
Operational current min		A	0.05
Non repetitive surge peak on state current t=10ms		A	580
Off state leakage current		mA	1
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	4000
I2t		A2s	1680
Terminal characteristics			
Control terminals		Type	Screw M4
Terminals tool			PZ2
Tightening torque control terminals			
		Nm	1.2…2
		lbin	10.6…17.7
Conductor section connectable (control terminals) with 1 or 2 wires min…max			
	AWG stranded	n°	18…14
	Flexible w/o lug	mm2	0.75…2.5
	Flexible c/w insulated spade lug	mm2	0.75…2.5
Load terminals		Type	Screw M5
Load terminals tool			PZ2
Tightening torque load terminals			
		Nm	2…3
		lbin	20.4

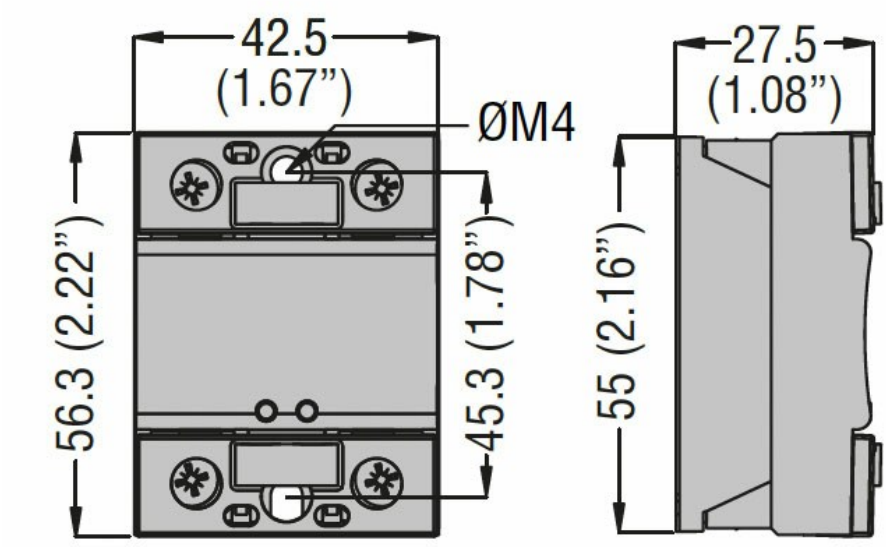
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Conductor section connectable (load terminals) with 1 or 2 wires min…max			
	AWG stranded	n°	16…10
	Flexible w/o lug	mm2	1.5…6
	Flexible c/w insulated spade lug	mm2	1.5…6
Operating position			
	allowable		Any
Fixing			Screw

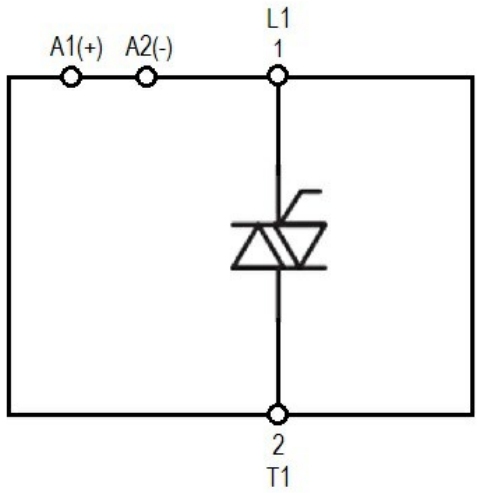
Ambient conditions

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

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	IEC/EN/BS 60947-4-3
	IEC/EN/BS 62314
Compliance	
	CSA
	cURus
	VDE

ETIM classification

EC000066 - Power contactor, AC switching

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