HS1B6NT090E230

HOCKEY PUCK, SINGLE-PHASE, 90A, 18...280VAC/DC, SCREW TERMINALS



Product designation			Solid state relay
Product type designation			HS1B
Type			single-phase
Input characteristics			
Control voltage			18...280VAC/DC
Operating voltage limits			
	Operating voltage pick-up	V	18
	Operating voltage drop-out	V	8
Input current at min…max voltage		mA	4.5...6
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	12300
Operational frequency (min…max)		Hz	45...65
Rated operating current AC-51 (resistive load) at 40°C		A	90
Rated operating current AC-51 (resistive load) at 55°C		A	80
Thermal resistance between junction to case		K/W	0.4
Heatsink for use at 40°C and 55°C at rated current AC-51		K/W	≤0.3
Operational current min		A	0.05
Non repetitive surge peak on state current t=10ms		A	1200
Off state leakage current		mA	1
On state output voltage drop		V	1.4
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
Output protection type			TVS
I2t		A2s	7200
Terminal characteristics			
Control terminals		Type	Screw M4
Terminals tool			PZ2
Tightening torque control terminals			
		Nm	1.2…2
		Ibin	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
		Ibin	20.4

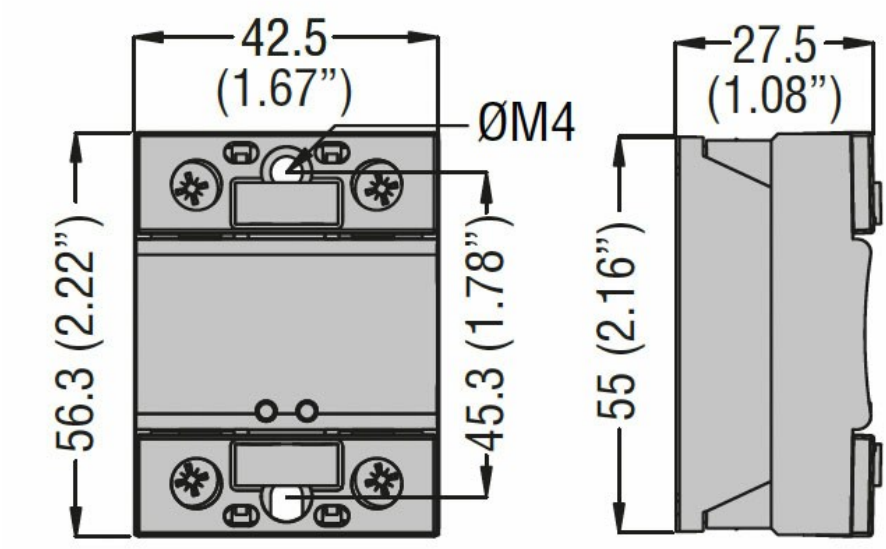
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Conductor section connectable (load terminals) with 1 or 2 wires min…max			
	AWG stranded	n°	16…10
	Flexible w/o lug	mm2	1.5…6
	Flexible c/w insulated spade lug	mm2	1.5…6
Operating position			
	allowable		Any
Fixing			Screw

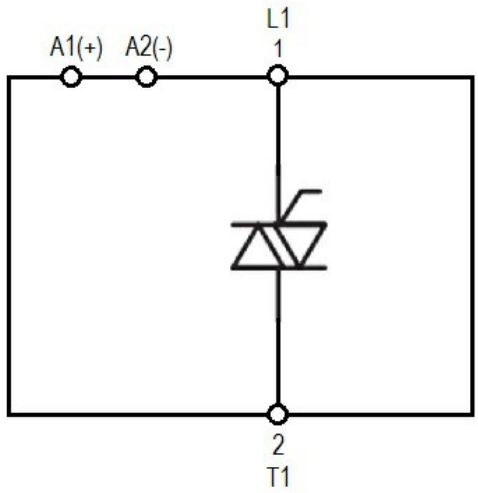
Ambient conditions

Temperature			
Operating temperature			
	min	°C	-55
	max	°C	+90
Storage temperature			
	min	°C	-55
	max	°C	+125

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	
	cURus
	VDE

ETIM classification

EC000066 - Power contactor, AC switching

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