



Product designation			Solid state relay
Product type designation			HS1B
Туре			single-phase
Input characteristics			
Control voltage			3.532VDC
Operating voltage limits			
	Operating voltage pick-up	V	3.5
	Operating voltage drop-out	V	2
Input current at minmax voltage		mA	1013
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	24600
Blocking voltage		V	1200
Operational frequency (minmax)		Hz	4565
Rated operating current AC-51 (resistive load) at 40°C		Α	50
Rated operating current AC-51 (resistive load) at 55°C		Α	42
Heatsink for use at 40°C and 55°C at rated current AC-51		K/W	≤0.9
Operational current min		Α	0.05
Non repetitive surge peak on state current t=10ms		Α	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	1.22
		Ibin	10.617.7
Conductor section connectable (control terminals) with 1 or 2 v	vires minmax		
,	AWG stranded	n°	1814
	Flexible w/o lug	mm2	0.752.5
Flex	kible c/w insulated spade lug	mm2	0.752.5
Load terminals		Туре	Screw M5
Load terminals tool		•	PZ2
Tightening torque load terminals			
		Nm	23
		lbin	20.4
Conductor section connectable (load terminals) with 1 or 2 wire	es minmax		_



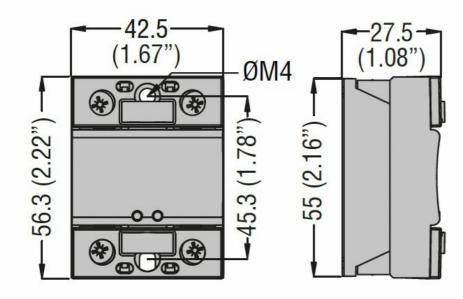
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AWG stranded	n°	1610
Flexible w/o lug	mm2	1.56
Flexible c/w insulated spade lug	mm2	1.56

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Operating	nosition
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



## Certifications and compliance

Certifications

IEC/EN/BS 60947-4-2 IEC/EN/BS 60947-4-3 IEC/EN/BS 62314 IEC/EN/BS 6335-1

Compliance

CSA cURus VDE

## ETIM classification

EC000066 - Power contactor, AC switching