HS1C2HV020D024

SOLID STATE RELAY COMPLETE WITH HEATSINK, SINGLE-PHASE, 20A, 3...32VDC, SCREW TERMINALS



Product designation			Solid state relay
Product type designation			HS1C
Type			single-phase
Input characteristics			
Control voltage			3...32VDC
Operating voltage limits			
	Operating voltage pick-up	V	3
	Operating voltage drop-out	V	2
Input current at min…max voltage		mA	3...32VDC
Operating times			
Switching-on			Half cycle max
Switching-off			Half cycle max
Output characteristics			
Switching mode			Zero crossing
Rated operating voltage		VAC	12…275
Blocking voltage		V	600
Operational frequency (min…max)		Hz	45...65
Rated operating current AC-51 (resistive load) at 40°C		A	20
Rated operating current AC-51 (resistive load) at 55°C		A	17
Operational current min		A	0.165
Non repetitive surge peak on state current t=10ms		A	400
Off state leakage current		mA	1
On state output voltage drop		V	1.2
Critical rate of rise of off-state voltage dv/dt		V/µs	500
Input - Output isolation		V	5000
Input - Output to metal base		V	5000
Output protection type			VDR
I2t		A2s	792
Terminal characteristics			
Control terminals		Type	Screw
Terminals tool			Blade 3.5mm
Tightening torque control terminals			
		Nm	0.5Nm
		Ibin	4.5
Conductor section connectable (control terminals) with 1 or 2 wires min…max			
	AWG stranded	n°	28…12
	Flexible w/o lug	mm2	0.75…2.5
	Flexible c/w insulated spade lug	mm2	0.75…2.5
Load terminals		Type	Screw
Load terminals tool			PH2
Tightening torque load terminals			
		Nm	1.5
		Ibin	13.3
Conductor section connectable (load terminals) with 1 or 2 wires min…max			
	AWG stranded	n°	18…10

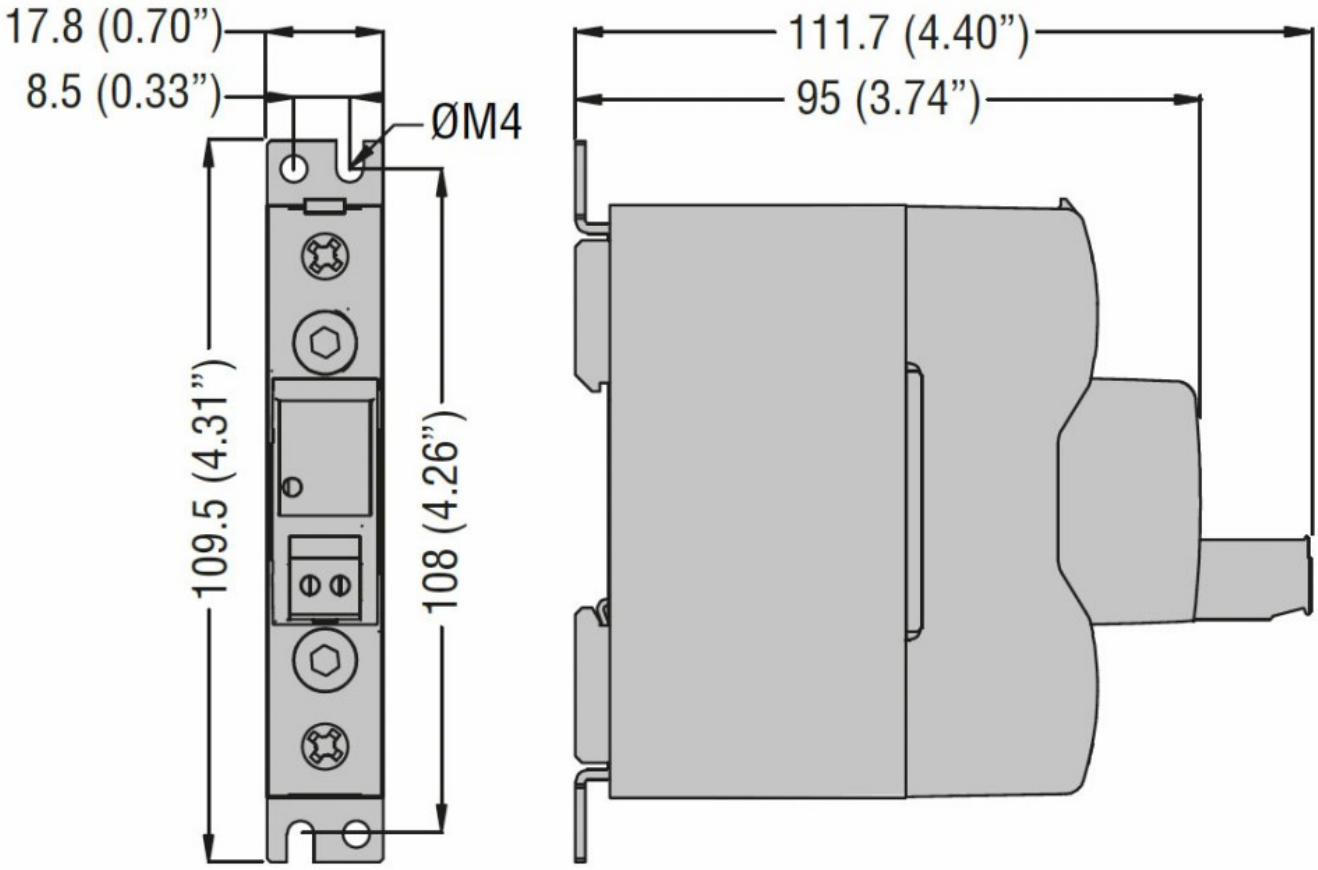
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	Flexible w/o lug	mm2	1…6
	Flexible c/w insulated spade lug	mm2	1…16
Operating position			
	allowable		On vertical plane
Fixing			Screw or on 35mm DIN rail

Ambient conditions

Temperature				
	Operating temperature			
		min	°C	-40
		max	°C	+80
	Storage temperature			
		min	°C	-40
		max	°C	+130

Dimensions

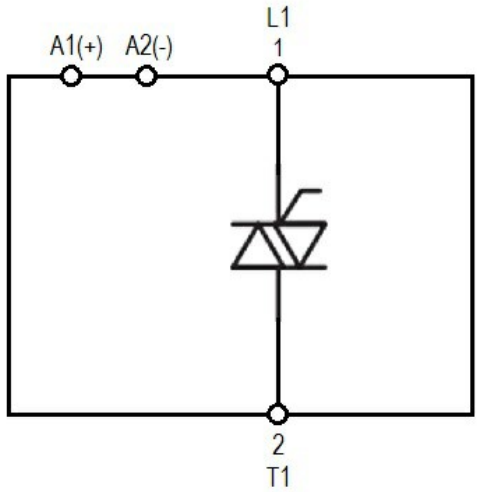


Wiring diagrams

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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

cULus

ETIM classification

EC000066 - Power contactor, AC switching

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