



Product designation	Solid state relay
Product type designation	HS1C
Type	single-phase

Input characteristics

Control voltage	90...280VAC
Operating voltage limits	

Operating voltage pick-up	V	45
Operating voltage drop-out	V	20

Input current at min...max voltage	mA	90...280VAC
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Operating times

Switching-on	Half cycle max
Switching-off	Half cycle max

Output characteristics

Switching mode		Zero crossing
Rated operating voltage	VAC	48...600
Blocking voltage	V	1200
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
Operational current min	A	0.165
Non repetitive surge peak on state current t=10ms	A	520
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	1000
Input - Output isolation	V	5000
Input - Output to metal base	V	5000
Output protection type		VDR
I2t	A2s	1350

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	mm ²	0.75...2.5
Flexible c/w insulated spade lug	mm ²	0.75...2.5

Load terminals	Type	Screw
Load terminals tool		PH2

Tightening torque load terminals

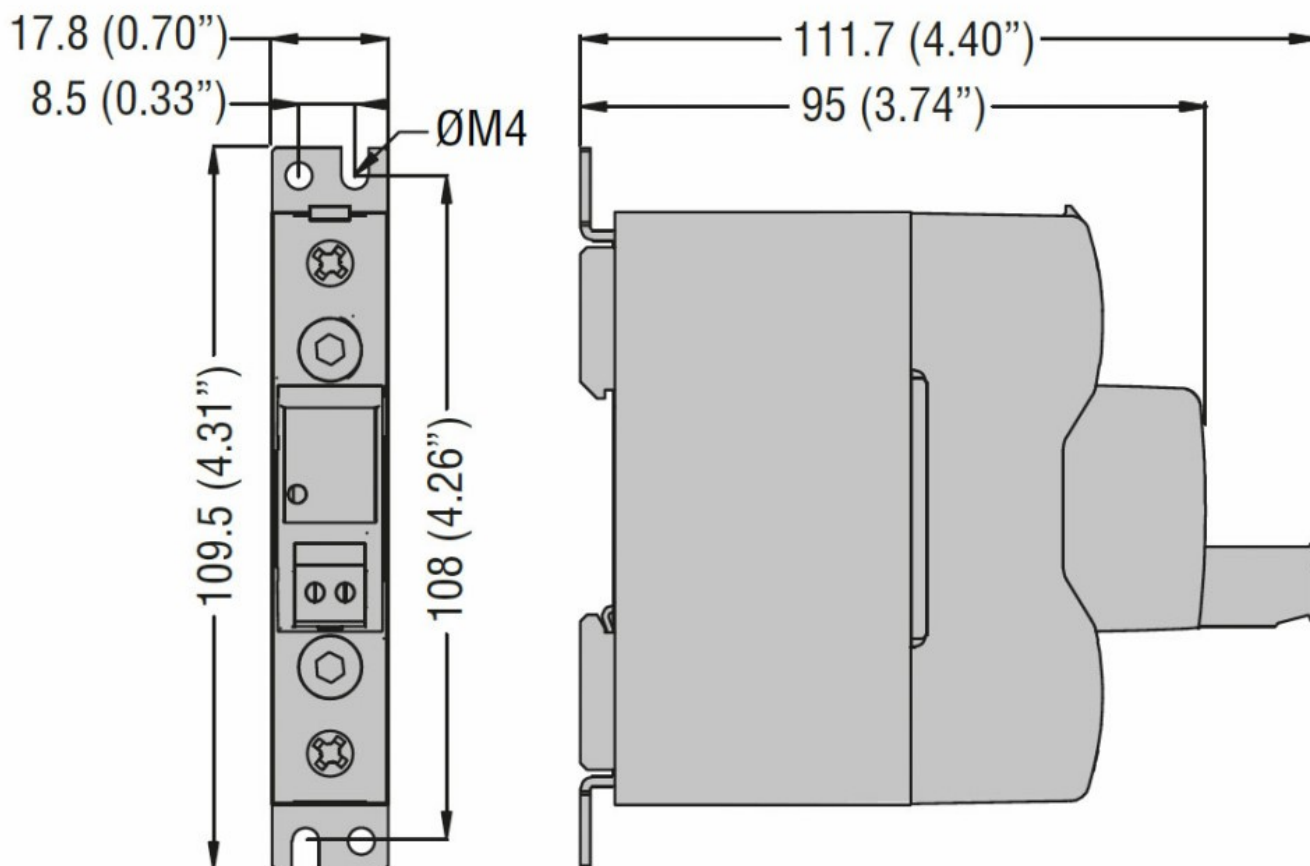
Nm	1.5
Ibin	13.3

Conductor section connectable (load terminals) with 1 or 2 wires min...max

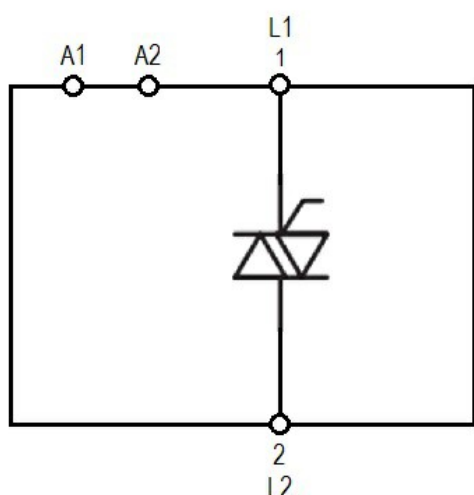
AWG stranded	n°	18...10
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	Flexible w/o lug	mm2	1...6
	Flexible c/w insulated spade lug	mm2	1...16
Operating position		allowable	On vertical plane
Fixing			Screw or on 35mm DIN rail
Ambient conditions			
Temperature	Operating temperature		
		min	°C -40
		max	°C +80
	Storage temperature		
		min	°C -40
		max	°C +130

Dimensions



Wiring diagrams



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