



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	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	1000
Input - Output isolation	V	5000
Input - Output to metal base	V	5000
Output protection type		VDR
I ² t	A ² s	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	mm ²	0.75...2.5
Flexible c/w insulated spade lug	mm ²	0.75...2.5

Load terminals	Type	Screw
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Load terminals tool		PH2
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Tightening torque load terminals

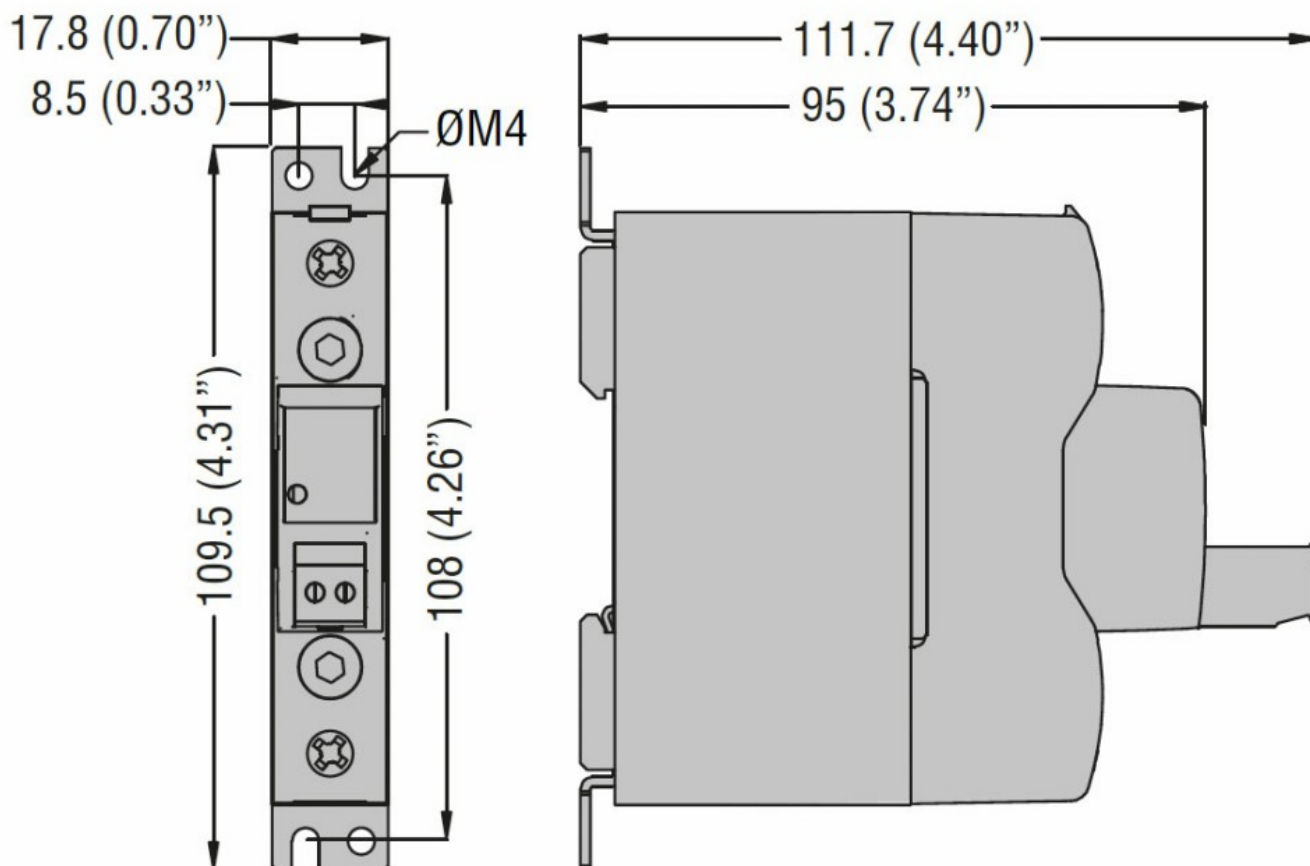
Nm	1.5
Ibin	13.3

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

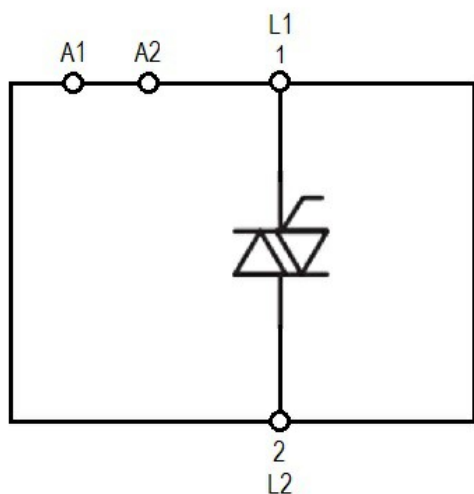
AWG stranded	n°	18...10
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	Flexible w/o lug	mm2	1...6
	Flexible c/w insulated spade lug	mm2	1...16
Operating position			
	allowable		On vertical plane
Fixing			Screw or on 35mm DIN rail
Ambient conditions			
Temperature			
	Operating temperature		
	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