



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
I ² t	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

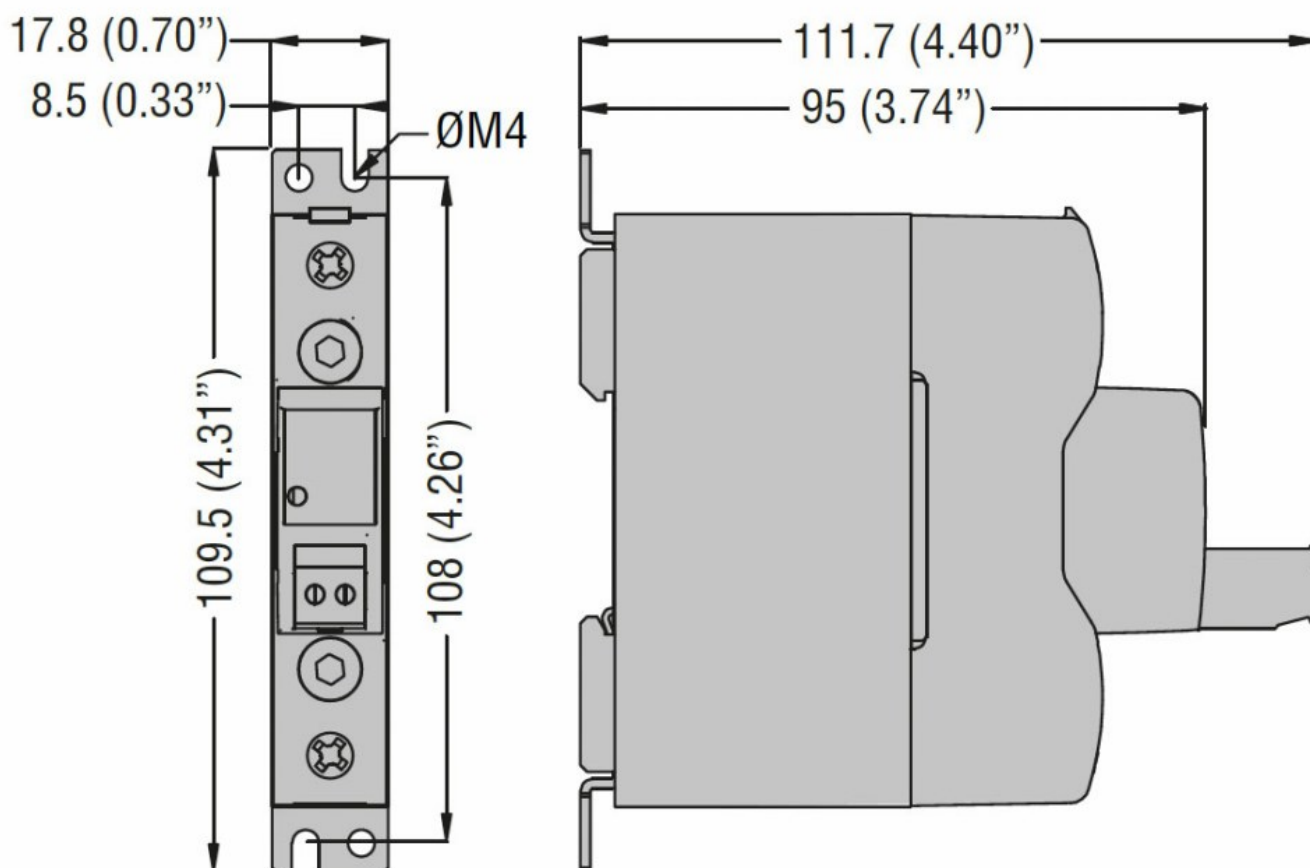
Load terminals	Type Screw
Load terminals tool	PH2

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

	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



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

cULus

ETIM classification

EC000066 - Power contactor, AC switching

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