



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

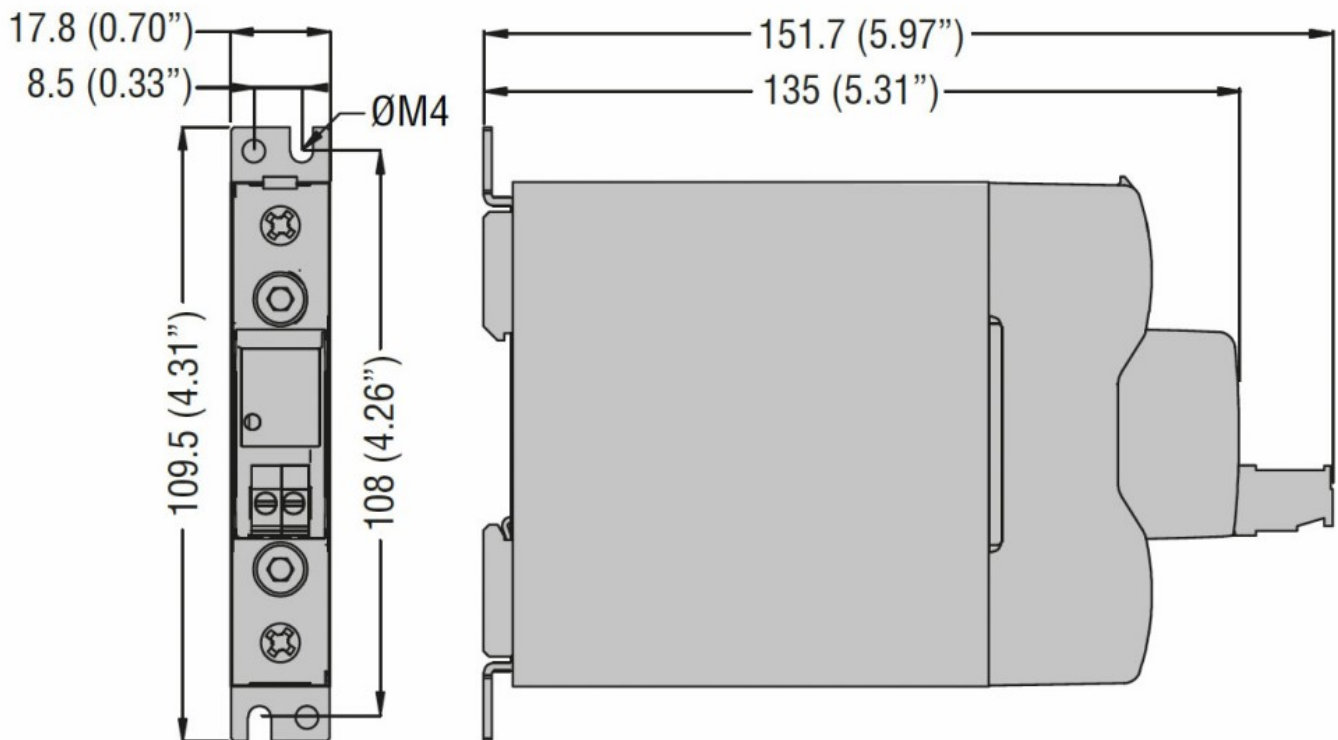
Switching mode	Zero crossing		
Rated operating voltage	VAC	12...275	
Blocking voltage	V	600	
Operational frequency (min...max)	Hz	45...65	
Rated operating current AC-51 (resistive load) at 40°C	A	30	
Rated operating current AC-51 (resistive load) at 55°C	A	25	
Operational current min	A	0.165	
Non repetitive 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	500	
Input - Output isolation	V	5000	
Input - Output to metal base	V	5000	
Output protection type	VDR		
I ² t	A ² s	1350	

Terminal characteristics

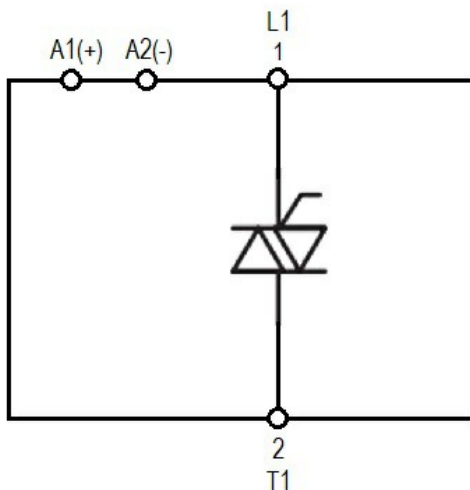
Control terminals	Type	Screw
Terminals tool	Blade 3.5mm	
Tightening torque control terminals	Nm	0.5Nm
	Ibin	4.5
Conductor section connectable (control terminals) with 1 or 2 wires min...max		
AWG stranded	n°	28...12
Flexible w/o lug	mm2	0.75...2.5
Flexible c/w insulated spade lug	mm2	0.75...2.5
Load 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



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