HS1C6HV025A230

SOLID STATE RELAY COMPLETE WITH HEATSINK, SINGLE-PHASE, 25A, 90...280VAC, SCREW TERMINALS



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	5...22
Operating times		
Switching-on		Half cycle max
Switching-off		Half cycle max
Output characteristics		
Static output type		SCR (silicon controlled rectifier)
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
	lbin	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

The characteristics described in this document are subject to updates or modifications at any time. The descriptions, technical and functional information, illustrations and instructions in this brochure are purely illustrative, and are consequently not contractually binding

		lbin	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

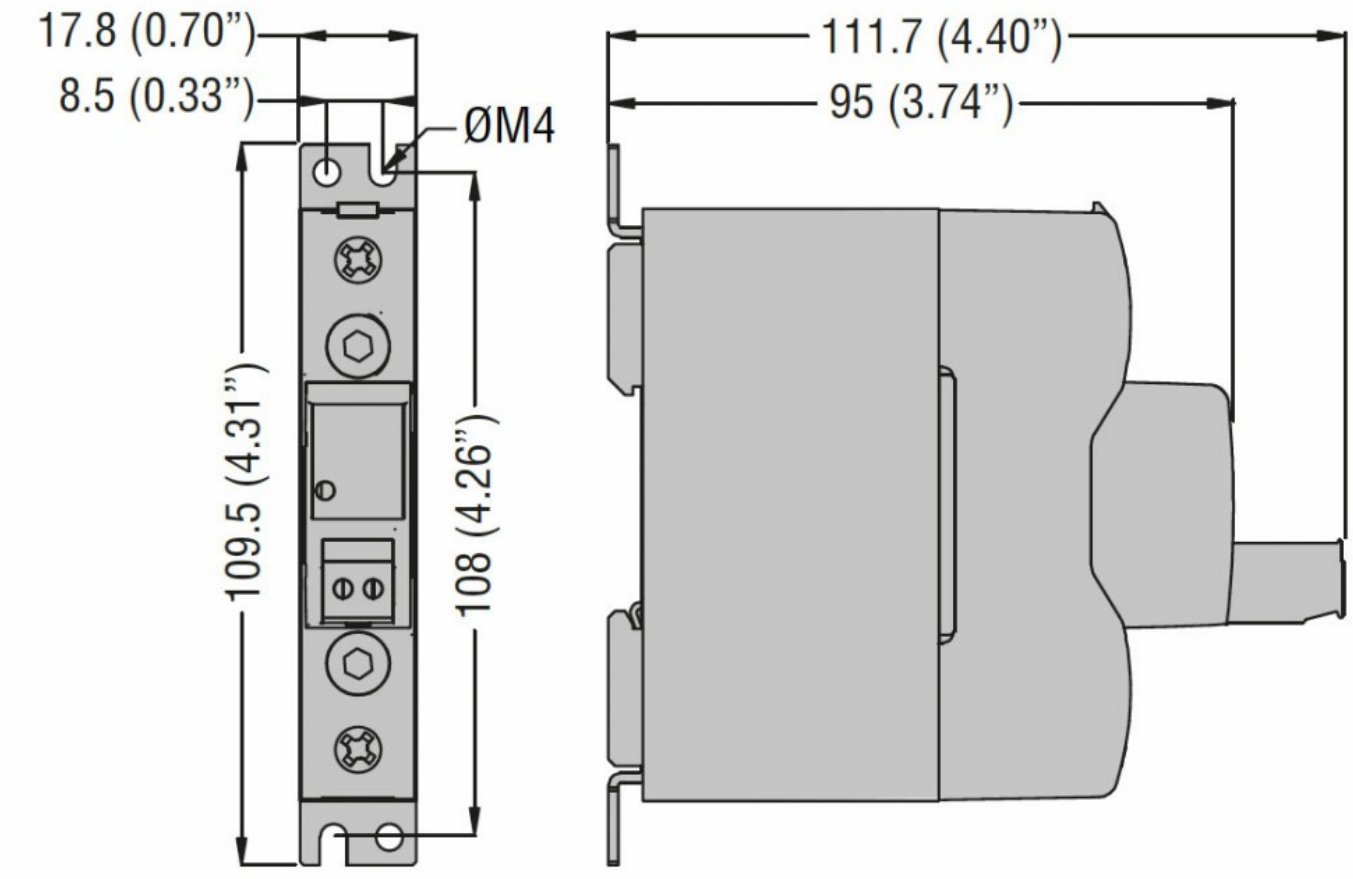
Ambient conditions

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

Resistance & Protection

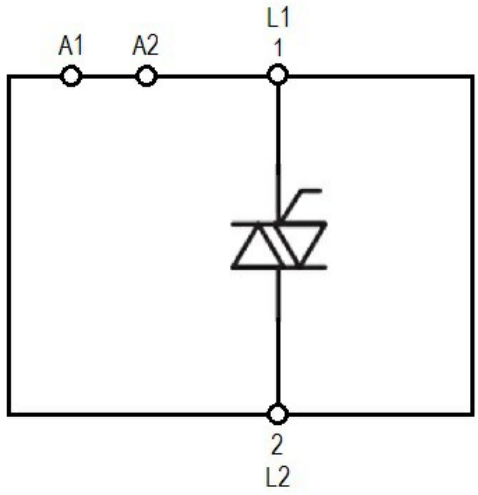
Protection degree	IP20 (on front)

Dimensions



Wiring diagrams

The characteristics described in this document are subject to updates or modifications at any time. The descriptions, technical and functional information, illustrations and instructions in this brochure are purely illustrative, and are consequently not contractually binding



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

The characteristics described in this document are subject to updates or modifications at any time. The descriptions, technical and functional information, illustrations and instructions in this brochure are purely illustrative, and are consequently not contractually binding