Lovato electric
ENERGY AND AUTOMATION

HS1C6HV040A230

SOLID STATE RELAY COMPLETE WITH HEATSINK, SINGLE-PHASE, 40A, 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	90...280VAC
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	40
Rated operating current AC-51 (resistive load) at 55°C	A	32
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	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

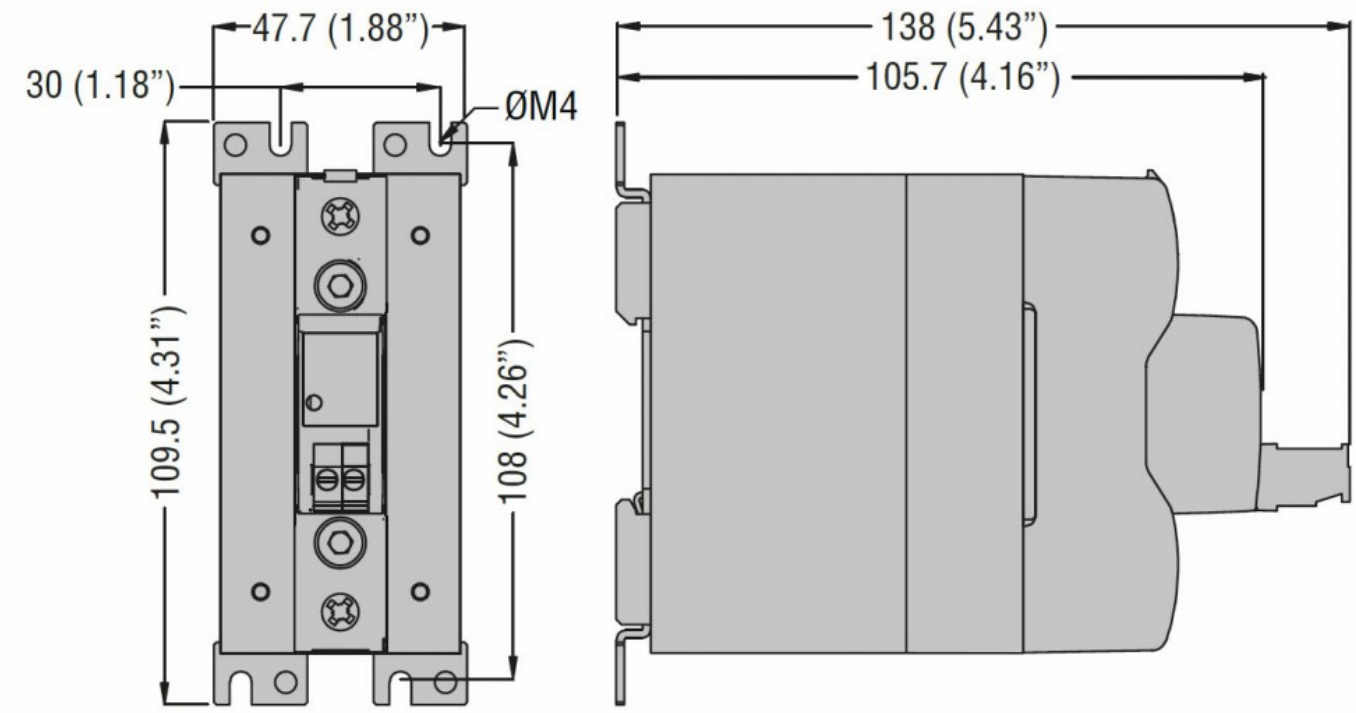
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	Flexible w/o lug	mm2	1…6
	Flexible c/w insulated spade lug	mm2	1…16
Operating position			
	allowable		On vertical plane
Fixing			Screw or on 35mm DIN rail

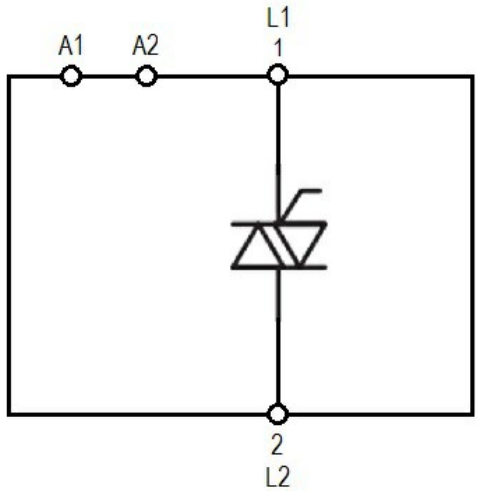
Ambient conditions

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

Dimensions



Wiring diagrams



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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

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