HS3D5HV048E230

SOLID STATE RELAY COMPLETE WITH HEATSINK, THREE-PHASE (3 CONTROLLED), 48A, 24…255VAC/DC, SCREW TERMINALS



Product designation			Solid state relay
Product type designation			HS3D
Type			Three-phase (3 controlled)
Input characteristics			
Control voltage			24...255VAC/DC
Operating voltage limits			
	Operating voltage pick-up	V	24
	Operating voltage drop-out	V	2
Input current at min…max voltage		mA	4.5...6
Operating times			
Switching-on			Half cycle max
Switching-off			Half cycle max
Output characteristics			
Switching mode			Zero crossing
Rated operating voltage		VAC	24…520
Blocking voltage		V	1600
Operational frequency (min…max)		Hz	45...65
Rated operating current AC-51 (resistive load) at 40°C		A	48
Rated operating current AC-51 (resistive load) at 55°C		A	38
Rated operating current AC-53 (motor load) at 40°C		A	12
Operational current min		A	0.05
Non repetitive surge peak on state current t=10ms		A	2100
Off state leakage current		mA	1
On state output voltage drop		V	1
Critical rate of rise of off-state voltage dv/dt		V/µs	500
Input - Output isolation		V	4000
Input - Output to metal base		V	4000
Output protection type			VDR
I2t		A2s	22000
Terminal characteristics			
Control terminals		Type	Screw M4
Terminals tool			PZ2
Tightening torque control terminals			
		Nm	1.2…2
		lbin	10.6…17.7
Conductor section connectable (control terminals) with 1 or 2 wires min…max			
	AWG stranded	n°	18…14
	Flexible w/o lug	mm2	0.75…2.5
	Flexible c/w insulated spade lug	mm2	0.75…2.5
Load terminals		Type	Screw M5
Load terminals tool			PZ2
Tightening torque load terminals			
		Nm	2…3
		lbin	20.4

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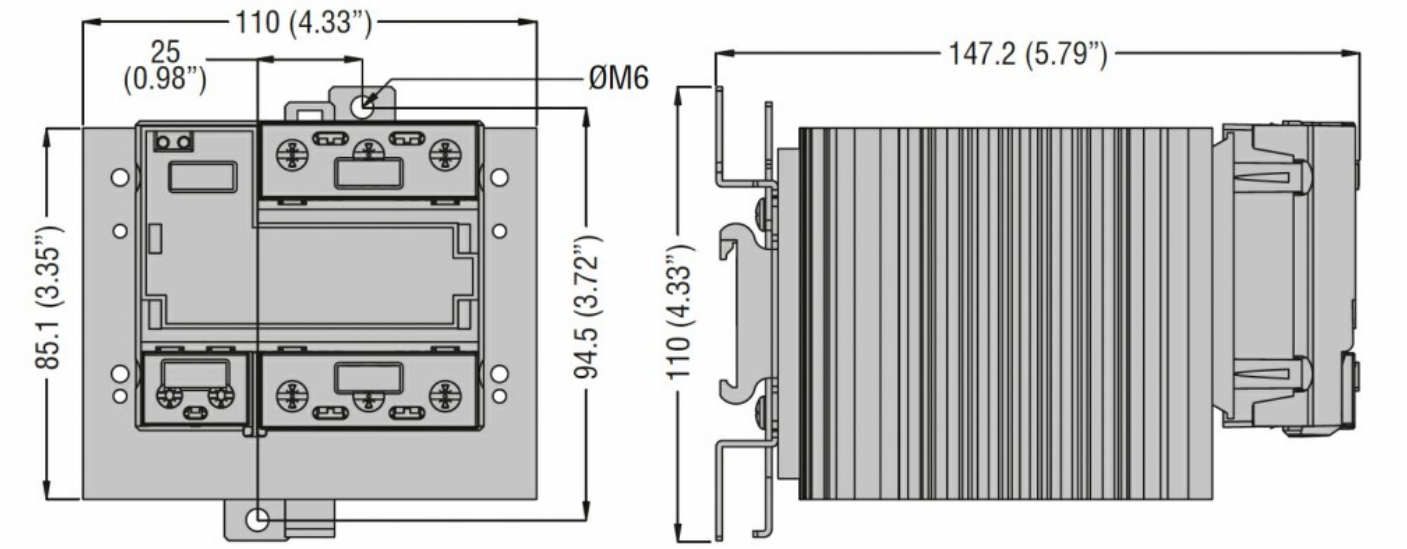
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Conductor section connectable (load terminals) with 1 or 2 wires min…max			
	AWG stranded	n°	16…10
	Flexible w/o lug	mm2	1.5…6
	Flexible c/w insulated spade lug	mm2	1.5…6
Operating position			
	allowable		Any
Fixing			Screw

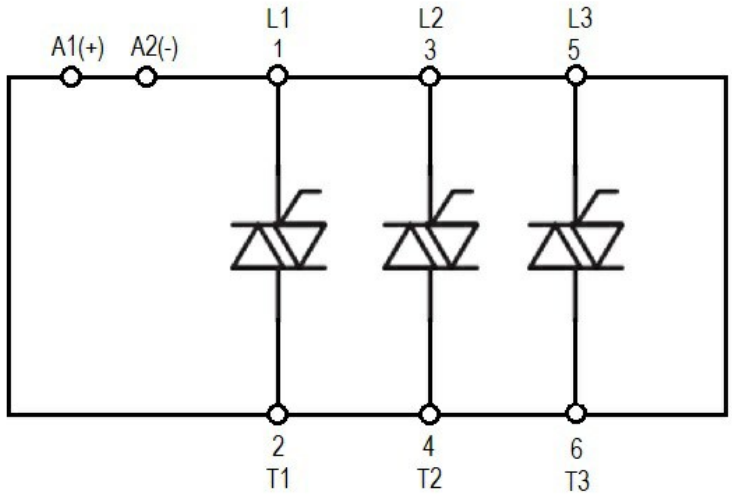
Ambient conditions

Temperature			
Operating temperature			
	min	°C	-40
	max	°C	+90
Storage temperature			
	min	°C	-40
	max	°C	+125

Dimensions



Wiring diagrams



Certifications and compliance

Certifications

IEC/EN/BS 60335-1

IEC/EN/BS 60947-4-2

IEC/EN/BS 60947-4-3

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	IEC/EN/BS 62314
Compliance	
	cULus

ETIM classification

EC000066 - Power contactor, AC switching

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