



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
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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
I ² t	A ² s	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	mm ²	0.75...2.5
	Flexible c/w insulated spade lug	mm ²	0.75...2.5

Load terminals	Type	Screw M5
Load terminals tool		PZ2

Tightening torque load terminals		Nm	2...3
		lbin	20.4

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

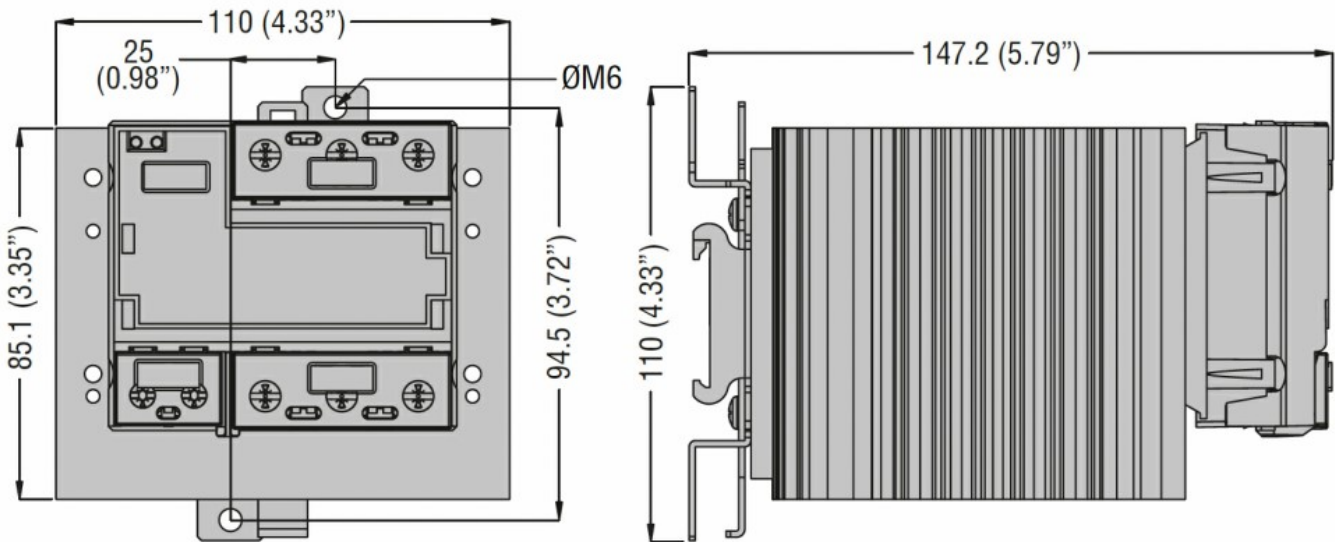
Operating temperature

min	°C	-40
max	°C	+90

Storage temperature

min	°C	-40
max	°C	+125

Dimensions



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