



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		
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	
	Ibin	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	
	Ibin	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

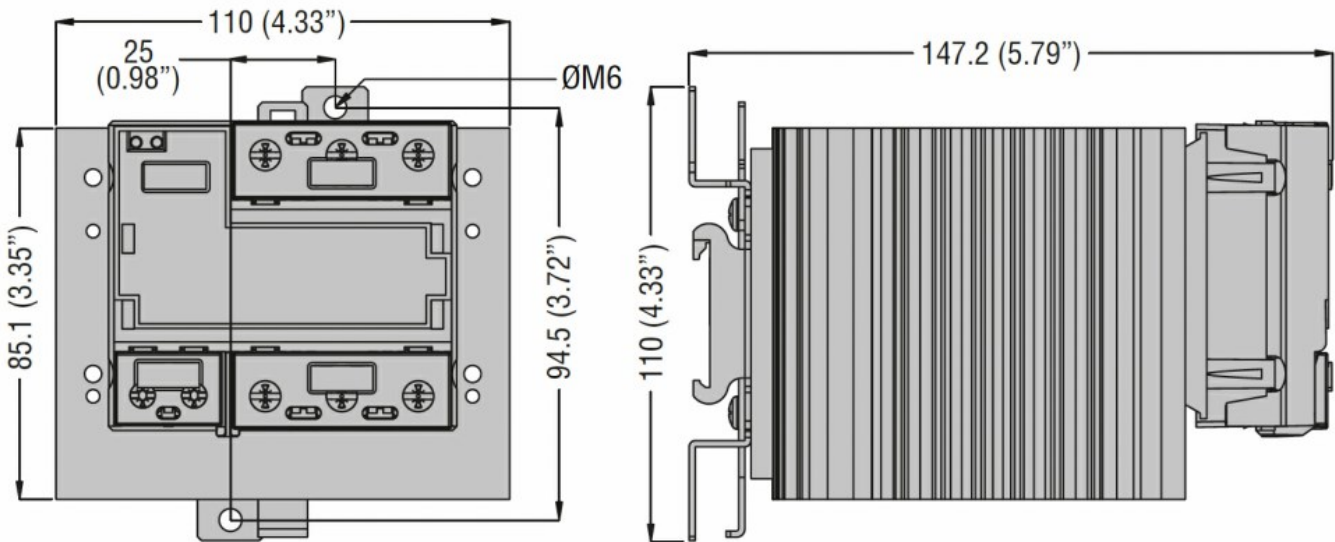
Operating temperature

min	°C	-40
max	°C	+90

Storage temperature

min	°C	-40
max	°C	+125

Dimensions



Certifications and compliance

Certifications

IEC/EN/BS 60947-4-2

IEC/EN/BS 60947-4-3

IEC/EN/BS 62314

IEC/EN/BS 6335-1

Compliance

cULus

ETIM classification

EC000066 - Power contactor, AC switching