



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 24
Rated operating current AC-51 (resistive load) at 55°C	A 18
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 750
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	A2s 2800

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

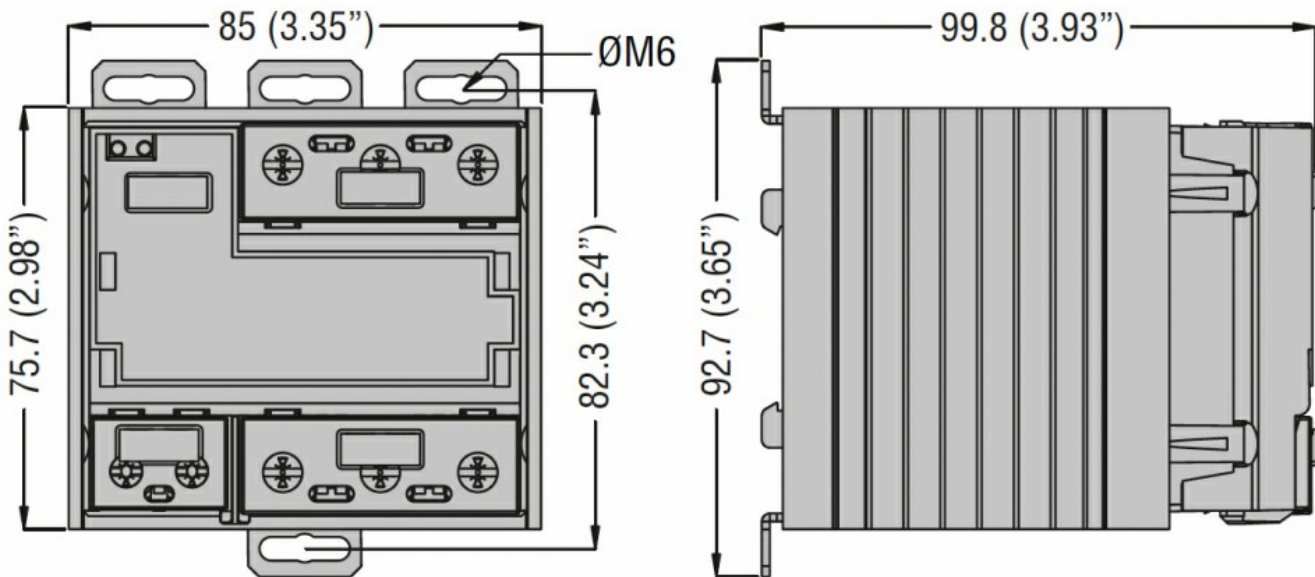
Operating temperature

min	°C	-40
max	°C	+90

Storage temperature

min	°C	-40
max	°C	+125

Dimensions



Certifications and compliance

Certifications

- IEC/EN/BS 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