



Input characteristics

Control voltage		10...30VDC
Operating voltage limits		
	Operating voltage pick-up	V 10
	Operating voltage drop-out	V 2
Input current at min...max voltage	mA	6...24
Input reverse voltage	V	32

Operating times

Switching-on	Half cycle max
Switching-off	Half cycle max

Output characteristics

Static output type		SCR (silicon controlled rectifier)
Switching mode		Zero crossing
Rated operating voltage	VAC	24...600
Blocking voltage	V	1200
Operational frequency (min...max)	Hz	45...65
Rated operating current AC-51 (resistive load) at 40°C	A	50
Rated operating current AC-51 (resistive load) at 55°C	A	50
Thermal resistance between junction to case	K/W	0.3
Heatsink for use at 40°C and 55°C at rated current AC-51	K/W	≤0.3
Operational current min	A	0.05
Non repetitive surge peak on state current t=10ms	A	1200
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	500
Input - Output isolation	V	4000
Input - Output to metal base	V	4000
I2t	A2s	7200

Terminal characteristics

Control terminals	Type	Screw
Terminals tool		Blade 3.5mm
Tightening torque control terminals	Nm	0.5Nm
	lbin	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 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

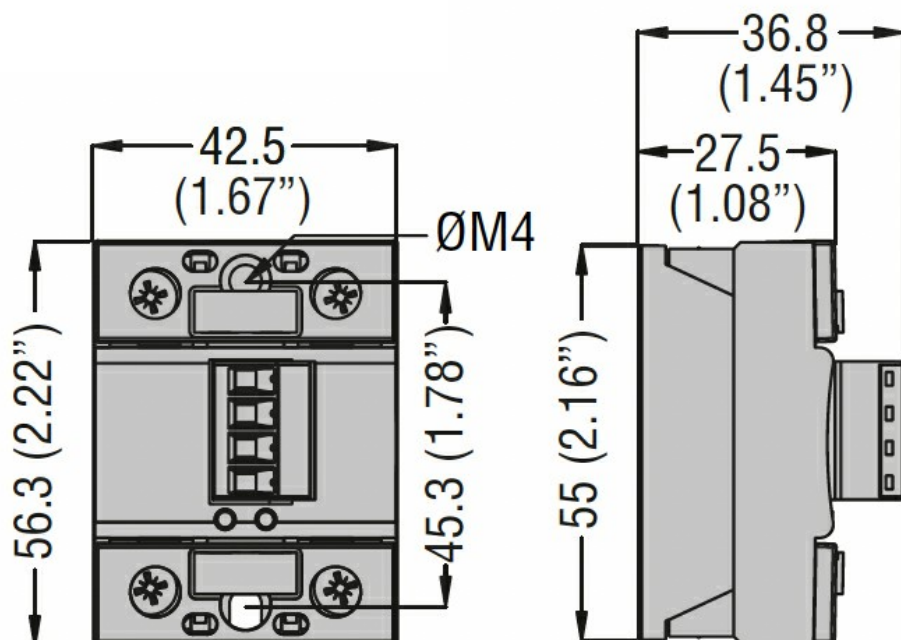
Operating temperature

min	°C	-55
max	°C	+90

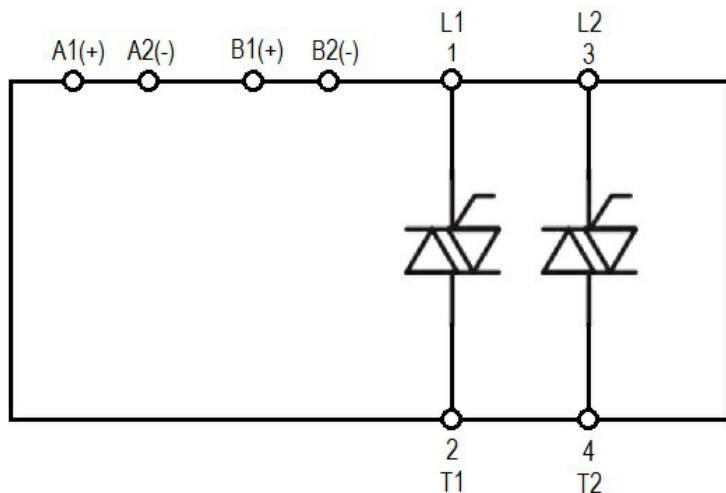
Storage temperature

min	°C	-55
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

IEC/EN/BS 62314

Compliance

CSA

cURus

VDE

ETIM classification

EC000066 - Power contactor, AC switching