



Input characteristics

Control voltage	3.5...32VDC		
Operating voltage limits			
	Operating voltage pick-up	V	3.5
	Operating voltage drop-out	V	2
Input current at min...max voltage	mA	10...13	
Input reverse voltage	V	32	

Operating times

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

Output characteristics

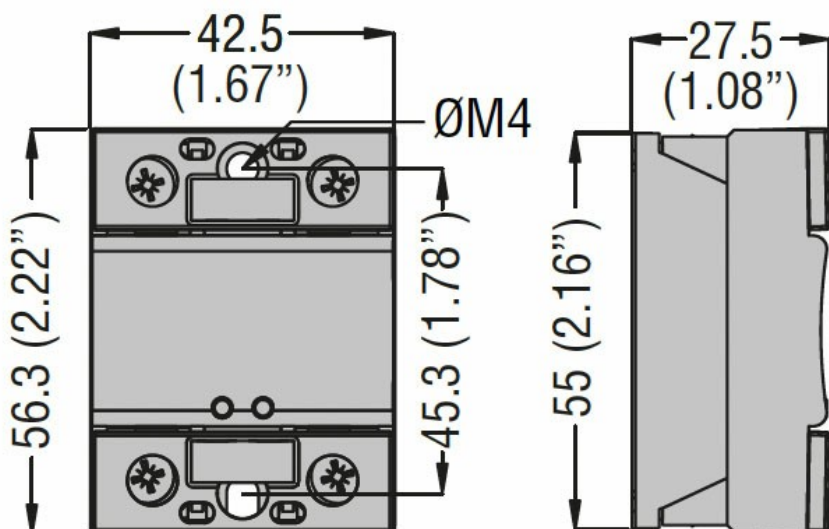
Static output type	SCR (silicon controlled rectifier)	
Switching mode	Zero crossing	
Rated operating voltage	VAC	24...600
Blocking voltage	V	1200
Operational frequency (min...max)	Hz	45...65
Rated operating current AC-51 (resistive load) at 40°C	A	90
Rated operating current AC-51 (resistive load) at 55°C	A	80
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	1.4
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	TVS	
I2t	A2s	7200

Terminal characteristics

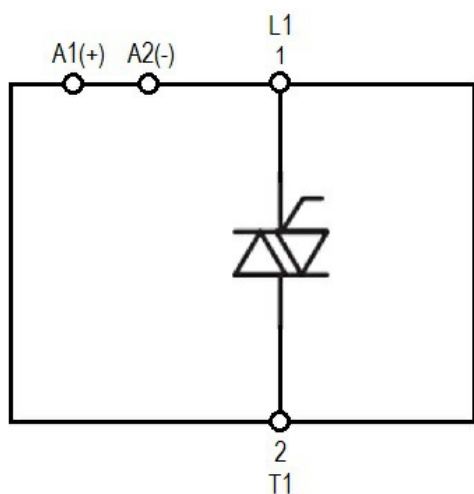
Control terminals	Type	Screw M4
Terminals tool	PZ2	
Tightening torque control terminals	Nm	1.2...2
	Ibin	10.6...17.7
Conductor section connectable (control terminals) with 1 or 2 wires min...max		
AWG stranded	n°	18...14
Flexible w/o lug	mm2	0.75...2.5
Flexible c/w insulated spade lug	mm2	0.75...2.5
Load terminals	Type	Screw M5
Load terminals tool	PZ2	
Tightening torque load terminals	Nm	2...3

		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 -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