



Contact characteristics

Number of poles	Nr.	4
Rated insulation voltage U_i IEC/EN	V	1000 (power circuit)
Rated impulse withstand voltage U_{imp}	kV	8
Operational frequency	min	Hz 25
	max	Hz 400
IEC Conventional free air thermal current $I_{th} \leq 40^\circ\text{C}$	A	1600
Operational current I_e	AC-1 ($\leq 40^\circ\text{C}$)	A 1600
	AC-1 ($\leq 55^\circ\text{C}$)	A 1360
	AC-1 ($\leq 70^\circ\text{C}$)	A 1120
Rated operational power AC-1 ($T \leq 40^\circ\text{C}$)	230V	kW 550
	400V	kW 950
	500V	kW 1200
	690V	kW 1650
	1000V	kW 2600
Short-time allowable current for 10s (IEC/EN60947-1)	A	8300
Protection fuse	gG (IEC)	A 1600
		A 6300
Making capacity (RMS value)		
Breaking capacity at voltage	440V	A 6300
	500V	A 5600
	690V	A 5000
Resistance per pole (average value)	m Ω	7
Power dissipation per pole (average value)	I_{th}	W 180
Tightening torque for terminals	min	Nm 35
	max	Nm 35
	min	lbin 25.8
	max	lbin 25.8
Max number of wires simultaneously connectable	Nr.	2
Power terminal protection according to IEC/EN 60529		IP00

Mechanical features

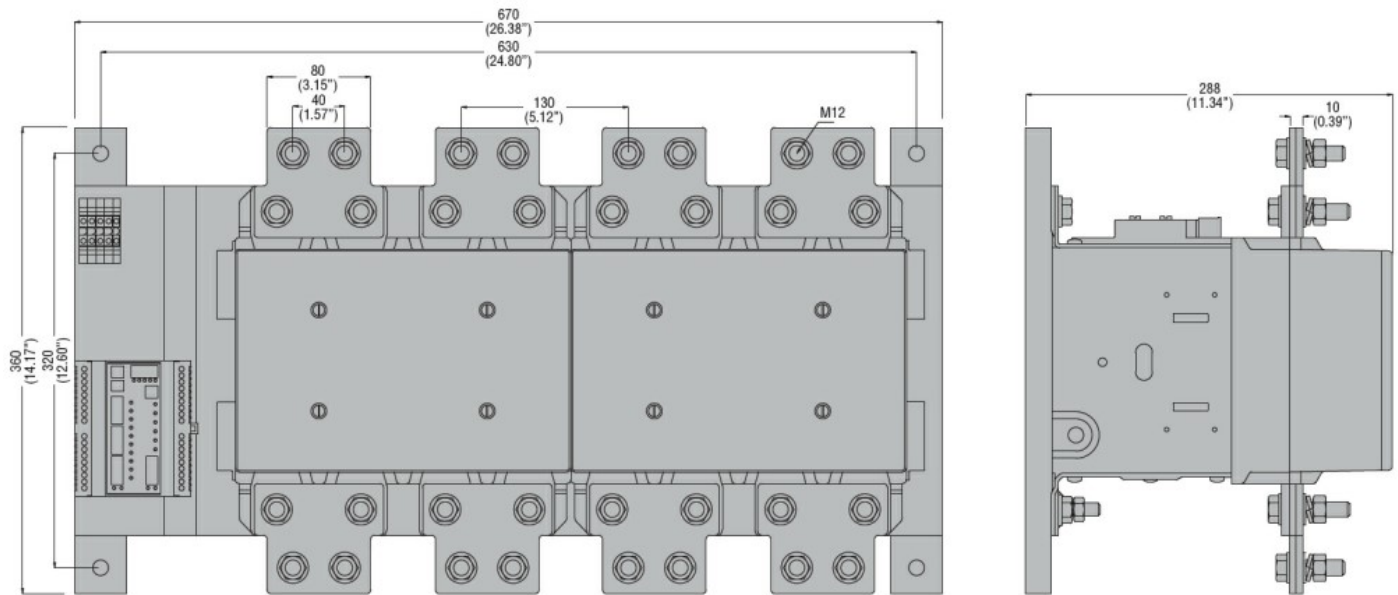
Operating position	normal	Vertical plan
	allowable	$\pm 30^\circ$
Fixing		Screw
Weight	g	5890

Auxiliary contact characteristics

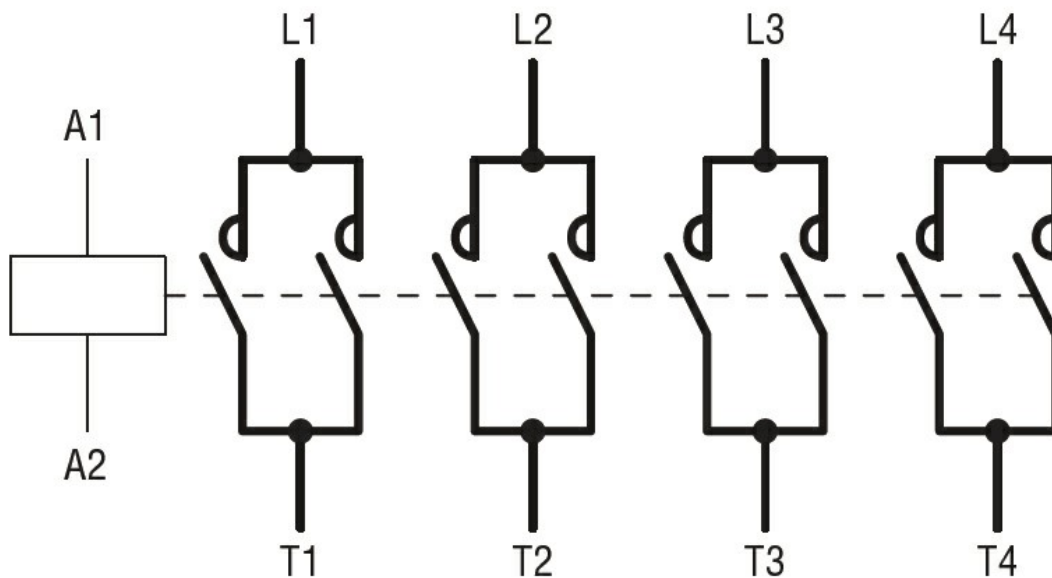
Thermal current I_{th}	A	16
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IEC/EN 60947-5-1 designation		A600 - P600		
Operating current AC15		230V	A	3
		400V	A	1.9
		500V	A	1.4
Operating current DC12		110V	A	5.7
Operating current DC13		24V	A	5.7
		48V	A	2.9
		60V	A	2.3
		125V	A	0.6
		220V	A	0.2
		600V	A	1.2
Operations				
Mechanical life			cycles	5000000
Electrical life			cycles	700000
Safety related data				
Performance level B10d according to EN/ISO 13489-1			rated load mechanical load	cycles cycles
				700000 5000000
Mirror contats according to IEC/EN 609474-4-1 annex F			Yes	
EMC compatibility			yes	
AC coil operating				
Rated AC voltage at 50/60Hz, 60Hz		min	V	110
		max	V	125
AC operating voltage				
of 50/60Hz coil powered at 50Hz				
pick-up		min	%Us	80
		max	%Us	110
drop-out		min	%Us	20
		max	%Us	60
of 50/60Hz coil powered at 60Hz				
pick-up		min	%Us	80
		max	%Us	110
drop-out		min	%Us	20
		max	%Us	60
of 60Hz coil powered at 60Hz				
pick-up		min	%Us	80
		max	%Us	110
drop-out		min	%Us	20
		max	%Us	60
AC average coil consumption at 20°C				
of 50/60Hz coil powered at 50Hz		in-rush	VA	800
		holding	VA	45
of 50/60Hz coil powered at 60Hz				

	in-rush holding	VA VA	800 45
Dissipation at holding ≤20°C 50Hz		W	40
DC coil operating			
DC rated control voltage			
	min	V	110
	max	V	125
max		V	125
DC operating voltage			
pick-up			
	min	%Us	80
Max cycles frequency			
Mechanical operation		cycles/h	1200
Operating times			
Average time for Us control			
in AC			
	Closing NO		
	min	ms	300
	max	ms	450
	Opening NO		
	min	ms	70
	max	ms	130
in DC			
	Closing NO		
	min	ms	300
	max	ms	450
	Opening NO		
	min	ms	70
	max	ms	130
UL technical data			
Rated operational voltage AC (UL)		V	600
Contact rating of auxiliary contacts according to UL			A600 - P600
Ambient conditions			
Temperature			
Operating temperature			
	min	°C	-50
	max	°C	60
Storage temperature			
	min	°C	-60
	max	°C	80
Max altitude		m	3000
Resistance & Protection			
Pollution degree			3
Dimensions			



Wiring diagrams



Certifications and compliance

Compliance

CSA C22.2 n° 60947-1

CSA C22.2 n° 60947-4-1

IEC/EN 60947-1

IEC/EN 60947-4-1

UL 60947-1

UL 60947-4-1

Certificates

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ETIM classification

ETIM 8.0

EC000066 -
Power contactor,
AC switching