



Contact characteristics

Number of poles	Nr.	3
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	1250
Operational current I_e	AC-1 ($\leq 40^\circ\text{C}$)	A 1250
	AC-1 ($\leq 55^\circ\text{C}$)	A 1050
	AC-1 ($\leq 70^\circ\text{C}$)	A 880
Rated operational power AC-1 ($T \leq 40^\circ\text{C}$)	230V	kW 480
	400V	kW 830
	500V	kW 1100
	690V	kW 1450
Short-time allowable current for 10s (IEC/EN60947-1)	A	6500
Protection fuse	gG (IEC)	A 1250
Making capacity (RMS value)	A	6300
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 110
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
Conductor section	AWG/Kcmil	
	max	2x 1500kcmil
Power terminal protection according to IEC/EN 60529		IP00

Mechanical features

Operating position	normal	Vertical plan
	allowable	$\pm 30^\circ$
Fixing		Screw
Weight	g	4790

Auxiliary contact characteristics

Thermal current Ith	A	16
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

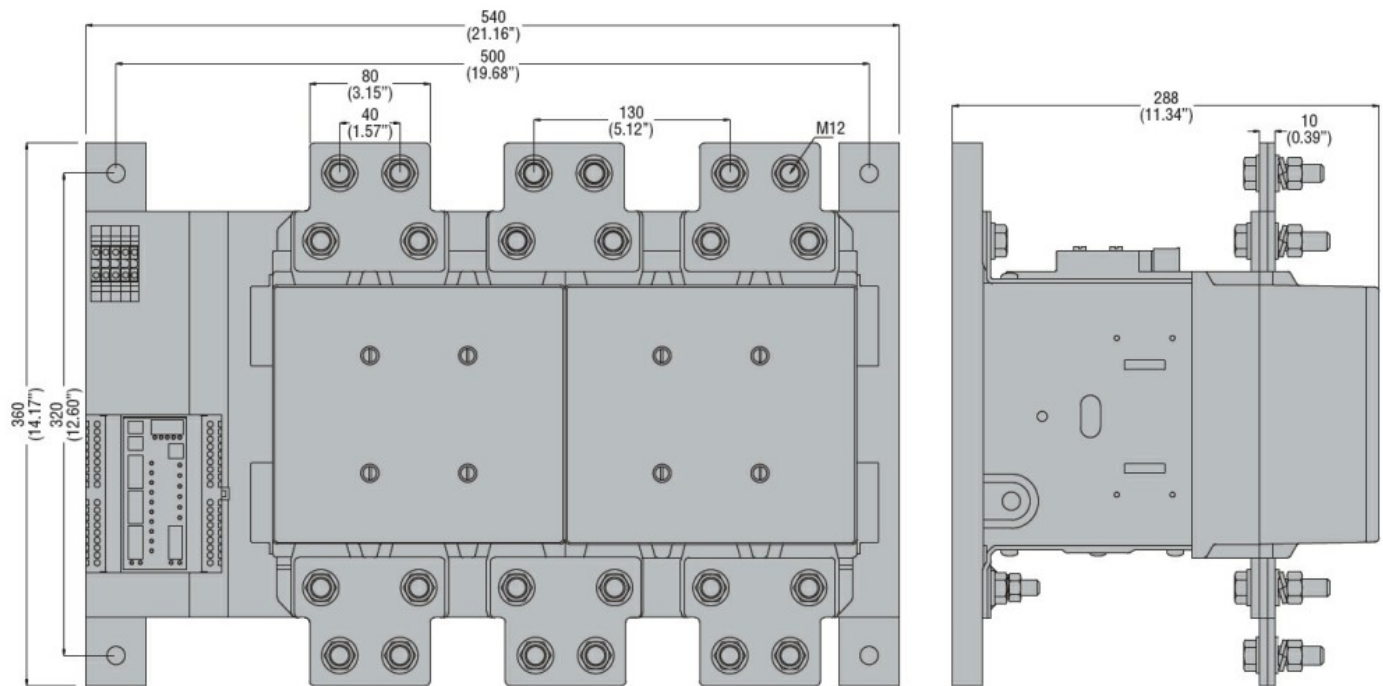
Performance level B10d according to EN/ISO 13489-1	rated load mechanical load	cycles cycles	700000 5000000
Mirror contacts according to IEC/EN 60947-4-1 annex F	Yes		
EMC compatibility	yes		

AC coil operating

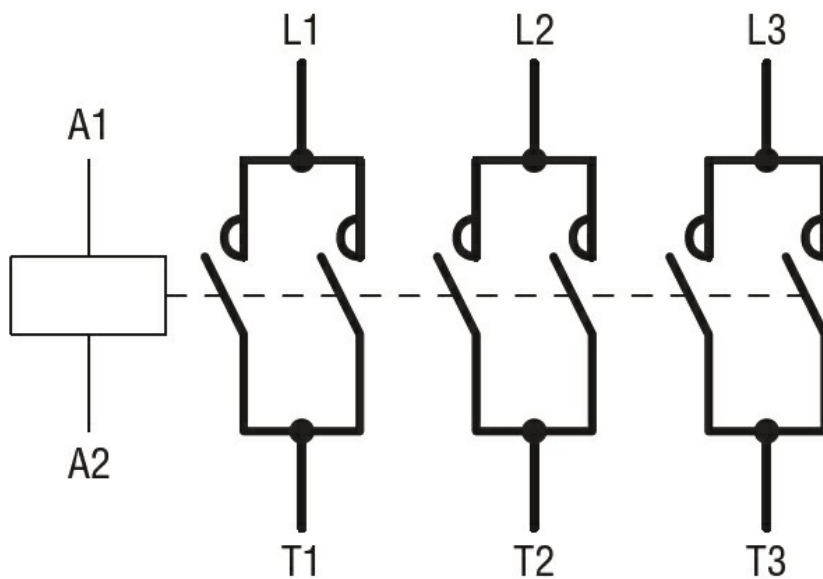
Rated AC voltage at 50/60Hz, 60Hz			
	min	V	110
	max	V	125
AC operating voltage			
of 50/60Hz coil powered at 50Hz			
pick-up			
	min	%Us	80
	max	%Us	110
drop-out			
	min	%Us	20
	max	%Us	60
of 50/60Hz coil powered at 60Hz			
pick-up			
	min	%Us	80
	max	%Us	110
drop-out			
	min	%Us	20
	max	%Us	60
of 60Hz 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	VA	800
		holding	VA	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