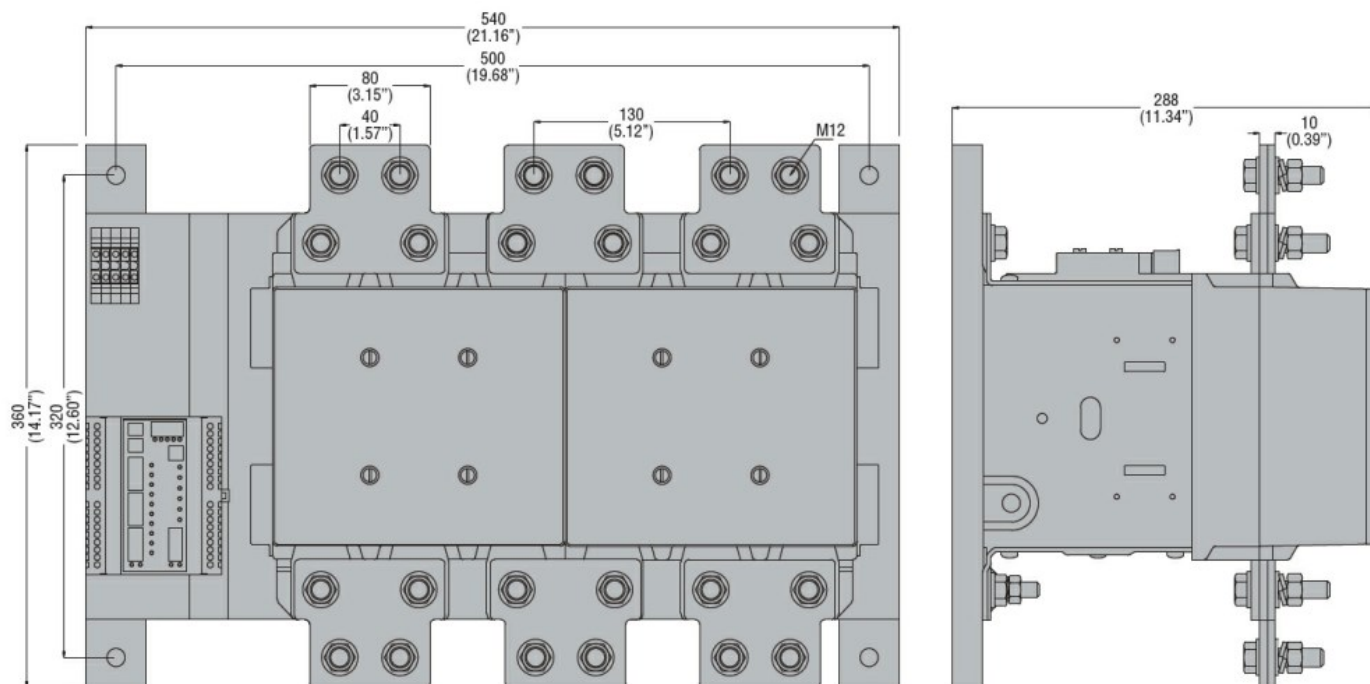




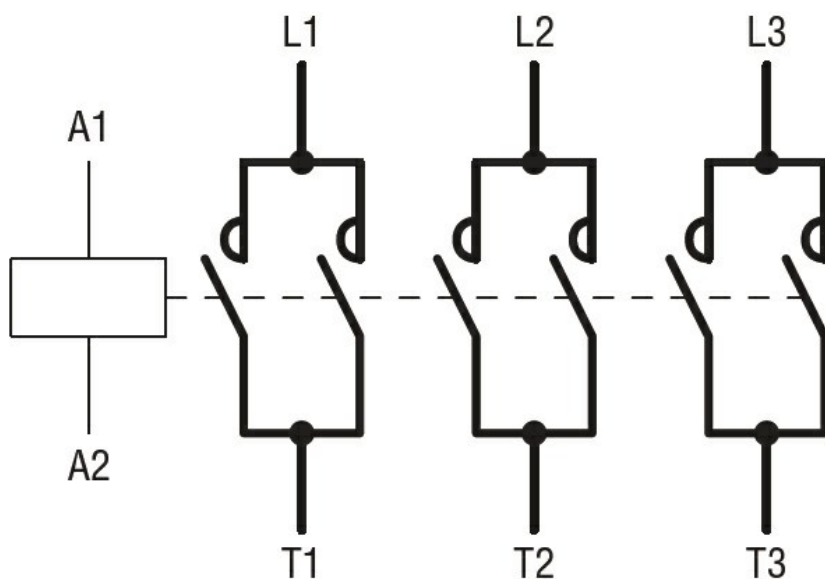
Product designation			Power contactor
Product type designation			B1600
Contact characteristics			
Number of poles		Nr.	3
Rated insulation voltage Ui IEC/EN		V	690
Rated impulse withstand voltage Uimp		kV	8
Operational frequency			
	min	Hz	25
	max	Hz	400
IEC Conventional free air thermal current Ith		A	1600
Operational current Ie			
	AC-1 (≤40°C)	A	1600
	AC-1 (≤55°C)	A	1360
	AC-1 (≤70°C)	A	1120
Rated operational power AC-1 (T≤40°C)			
	230V	kW	550
	400V	kW	950
	500V	kW	1200
	690V	kW	1650
Short-time allowable current for 10s (IEC/EN60947-1)		A	8300
Protection fuse			
	gG (IEC)	A	1600
Making capacity (RMS value)		A	6300
Breaking capacity at voltage			
	440V	A	6300
	500V	A	5600
	690V	A	5000
Resistance per pole (average value)		mΩ	7
Power dissipation per pole (average value)			
	Ith	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		±30°
Fixing			Screw
Weight		g	4915
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	cycles	700000
			mechanical load	cycles	5000000
Mirror contats according to IEC/EN 609474-4-1				Yes	
EMC compatibility				yes	
AC coil operating					
Rated AC voltage at 50/60Hz, 60Hz					
			min	V	220
			max	V	240
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 $\leq 20^{\circ}\text{C}$ 50Hz			W	40
DC coil operating				
DC rated control voltage		min max	V V	220 240
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	$^{\circ}\text{C}$	-50
		max	$^{\circ}\text{C}$	60
	Storage temperature			
		min	$^{\circ}\text{C}$	-60
		max	$^{\circ}\text{C}$	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