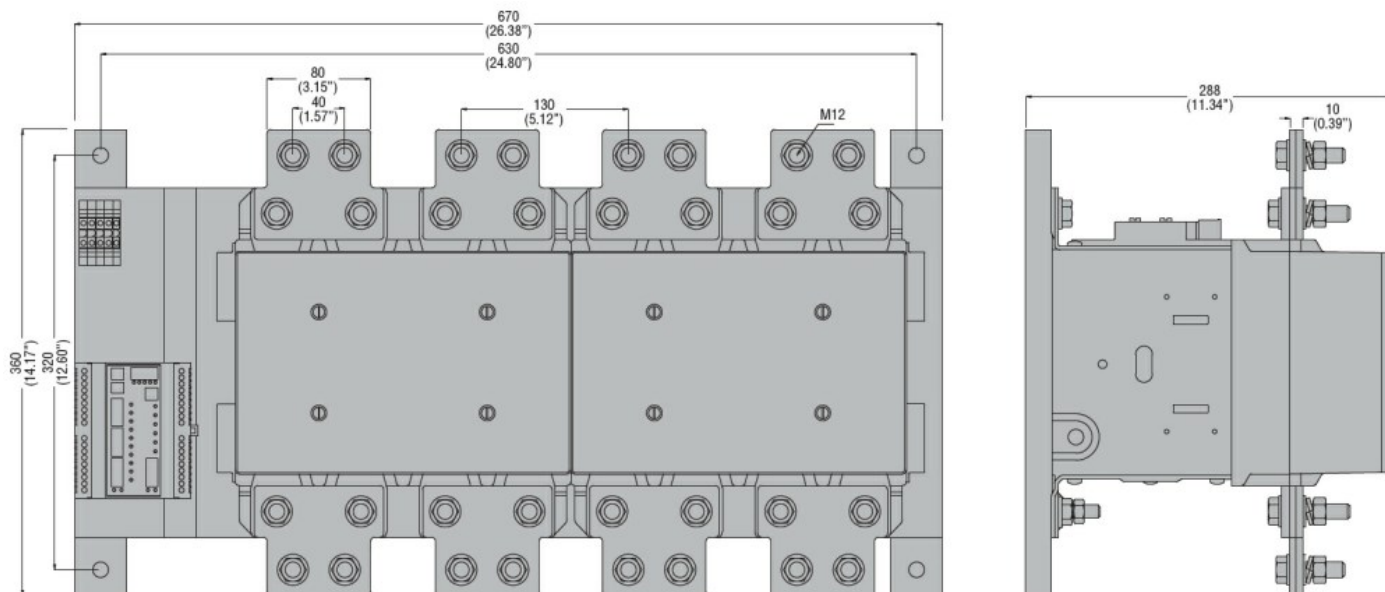




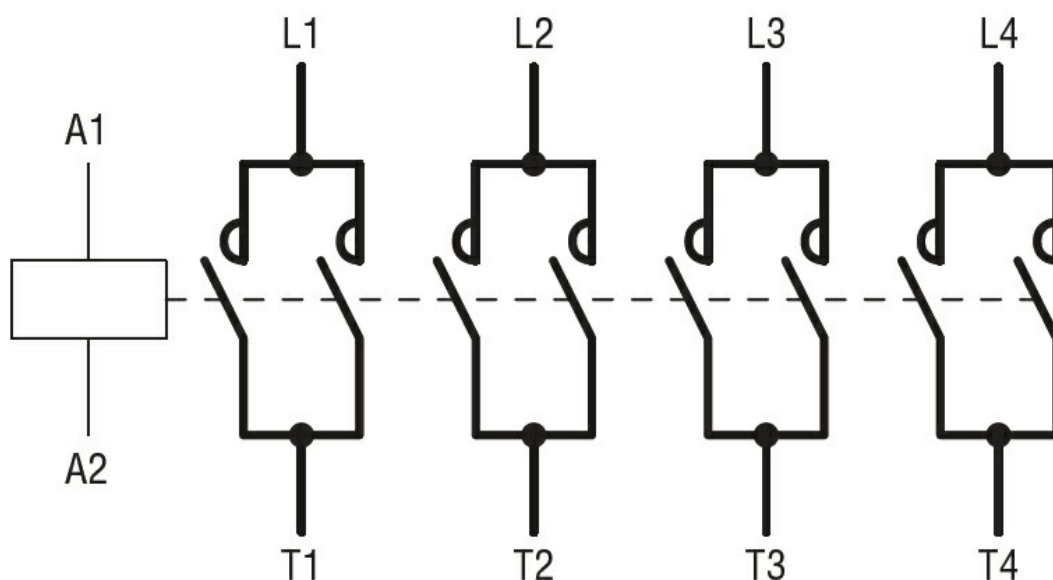
Product designation			Power contactor
Product type designation			B1600
Contact characteristics			
Number of poles		Nr.	4
Rated insulation voltage Ui IEC/EN		V	690
Rated impulse withstand voltage Uimp		kV	8
Operational frequency			
	min	Hz	25
	max	Hz	400
IEC Conventional free air thermal current Ith		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	5840
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 ≤20°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 max	ms ms	300 450
		Opening NO	min max	ms ms	70 130
	in DC				
		Closing NO	min max	ms ms	300 450
		Opening NO	min max	ms ms	70 130
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 max	°C °C	-50 60
	Storage temperature		min max	°C °C	-60 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