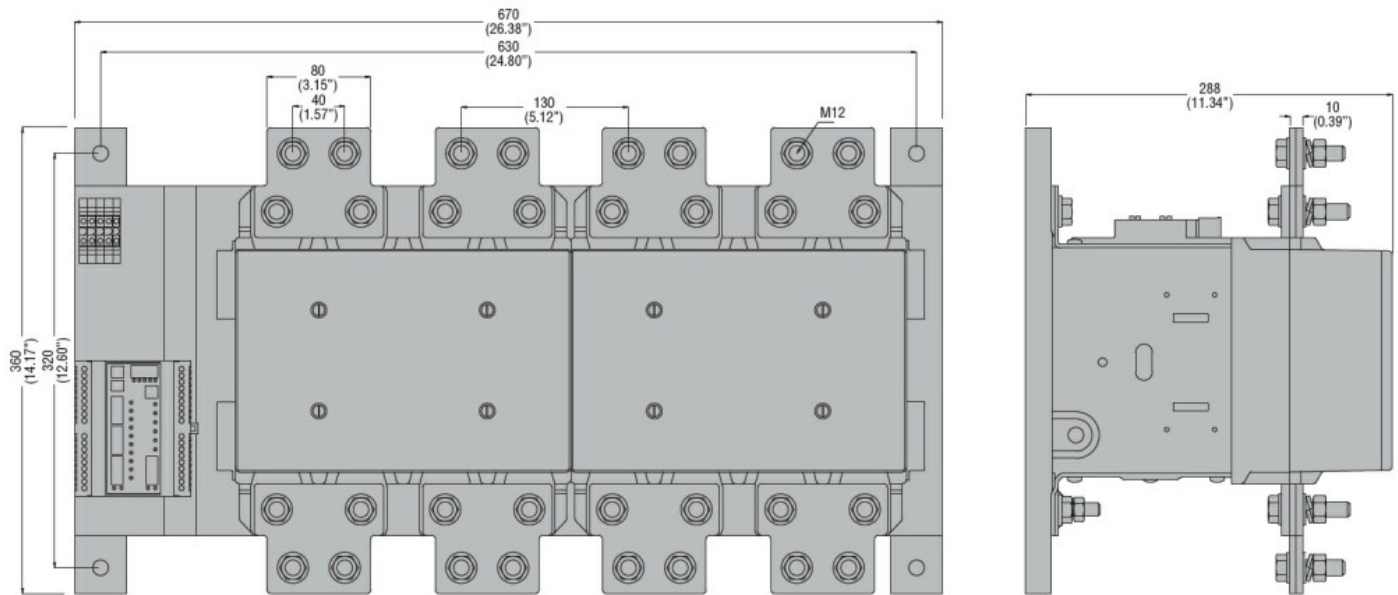




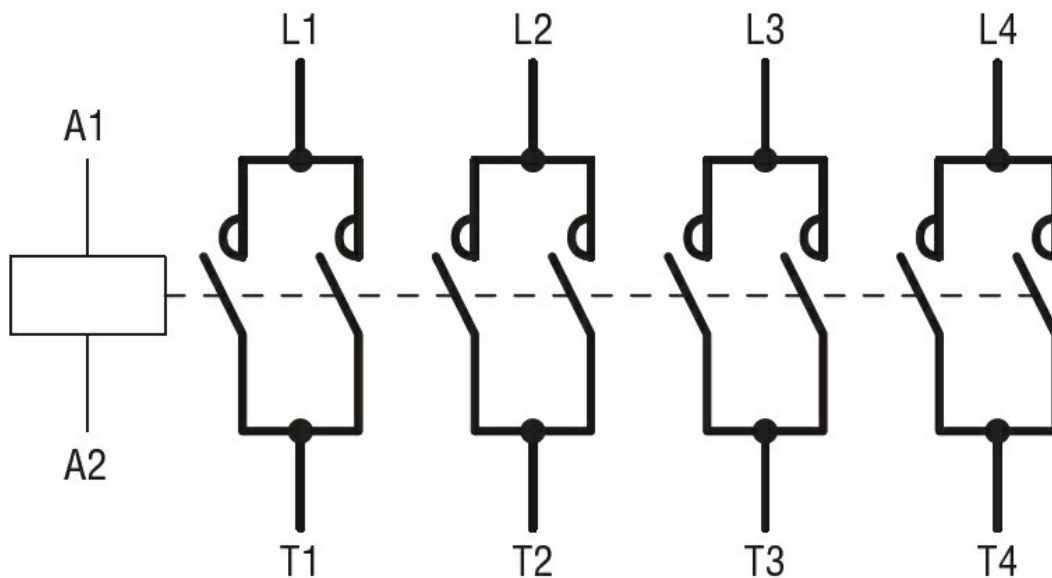
Product designation			Power contactor
Product type designation			B1600
Contact characteristics			
Number of poles	Nr.	4	
Rated insulation voltage Ui IEC/EN	V	690	
Rated impulse withstand voltage Uimp	kV	8	
Operational frequency	min	Hz	25
	max	Hz	400
IEC Conventional free air thermal current Ith	A	1600	
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
		A	6300
Making capacity (RMS value)			
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	Ibin	25.8
	max	Ibin	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	5890	
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 contats according to IEC/EN 609474-4-1			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 $\leq 20^{\circ}\text{C}$ 50Hz			W	40
DC coil operating				
DC rated control voltage		min max	V V	110 125
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	$^{\circ}\text{C}$	-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