11B63000380

THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 630A, AC/DC COIL, 380… 415VAC/DC

Product designation			Power contactor
Product type designation			B630
Contact characteristics			
Number of poles		nr.	3
Rated insulation voltage Ui		V	1000
Rated impulse withstand voltage Uimp		kV	8
Operating frequency			
	Operational frequency min	Hz	25
	Operational frequency max	Hz	400
Conventional free air thermal current Ith		A	800
Operating current			
	Operational current AC1 (≤40°C)	A	800
	Operational current AC3 (≤440V ≤55°C)	A	630
	Operational current AC4 (400V)	A	210
Rated operational power AC1 (T≤40°C)			
	230V	kW	288
	400V	kW	500
	500V	kW	655
	690V	kW	860
Rated operational power AC3 (T≤55°C)			
	230V	kW	198
	400V	kW	335
	415V	kW	368
	440V	kW	368
	500V	kW	368
	690V	kW	440
	1000V	kW	360
Short-time allowable current for 10s (IEC/EN60947-1)		A	5040
Protection fuse			
	gG (IEC)	A	1000
	aM (IEC)	A	630
Making capacity (RMS value)		A	6300
Breaking capacity at voltage			
	Breaking capacity 440V	A	6300
	Breaking capacity 500V	A	5600
	Breaking capacity 690V	A	5000
Resistance per pole (average value)		mΩ	0.14
Power dissipation per pole (average value)			
	Power dissipation pole (average value) Ith	W	90
	AC3	W	56
Tightening torque for terminals			
	min	Nm	55
	max	Nm	55
	min	lbft	40.6
	max	lbft	40.6

max number of wires simultaneously connectable			nr.	2
Conductor section				
	AWG			
		max		2x 600 kcmil
Power terminal protection according to IEC/EN 60529				IP00
Auxiliary contact characteristics				
Operational current AC1 (≤40°C)			A	800
Operating current DC13				
		110V	A	Screw
Ambient conditions				
Temperature				
	Operating temperature			
		min	°C	-50
		max	°C	70
	Storage temperature			
		min	°C	-60
		max	°C	80
Max altitude			m	3000
Operating position				
		normal		Vertical plan
		allowable		±30°
Mounting				Screw
Weight			g	18.88
Operations				
Mechanical life			Cycles	5000000
Electrical life			Cycles	700000
Safety related data				
Performance level B10d according to EN/ISO 13489-1				
		rated load	Cicli	700000
		mechanical load	Cicli	5000000
Mirror contats according to IEC/EN 609474-4-1				yes
EMC compatibility				yes
AC coil operating				
AC operating voltage				
	of 50/60Hz coil powered at 50Hz			
	pick-up			
		min	%Us	0.8
		max	%Us	1.1
	drop-out			
		min	%Us	0.2
		max	%Us	0.6
	of 50/60Hz coil powered at 60Hz			
	pick-up			
		min	%Us	0.8
		max	%Us	1.1
	drop-out			
		min	%Us	0.2
		max	%Us	0.6
AC operating voltage				
	of 50/60Hz coil powered at 50Hz			
		in-rush	VA	400
		holding	VA	18
	of 50/60Hz coil powered at 60Hz			

			in-rush	VA	400
			holding	VA	18
Dissipation at holding ≤20°C 50Hz				W	18
DC coil operating					
DC rated control voltage					
			min	V	24
DC operating voltage					
	pick-up				
			min	%Us	0.8
			max	%Us	1.10
	drop-out				
			min	%Us	0.2
			max	%Us	0.60
Average coil consuption ≤20°C					
			in-rush	W	400
			holding	W	18
Max cycles frequency					
Mechanical operations				Cycles/h	1200
Operating times					
Average time for Us control					
	in AC				
		Closing NO			
			min	ms	110
			max	ms	180
		Opening NO			
			min	ms	60
			max	ms	100
	in DC				
		Closing NO			
			min	ms	110
			max	ms	180
		Opening NO			
			min	ms	60
			max	ms	100
UL technical data					
General USE					
	Contactor				
			AC current	A	800
Other features					
Pollution degree					3
Dimensions					

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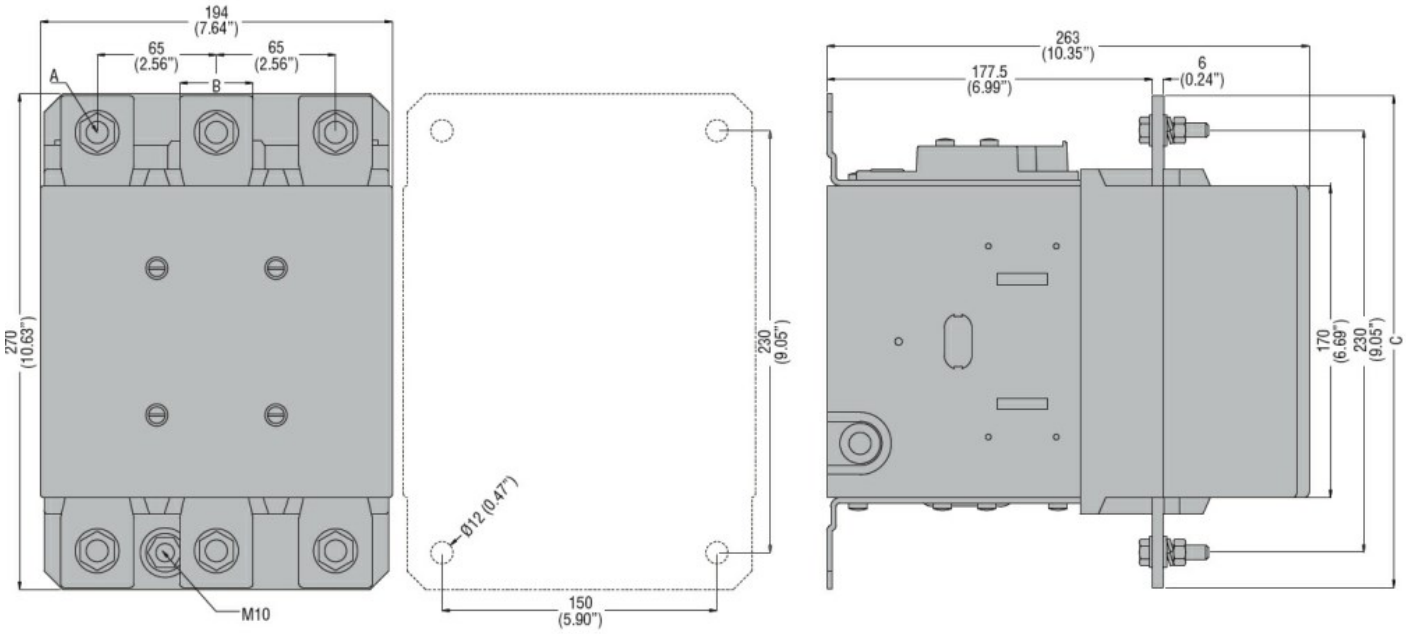
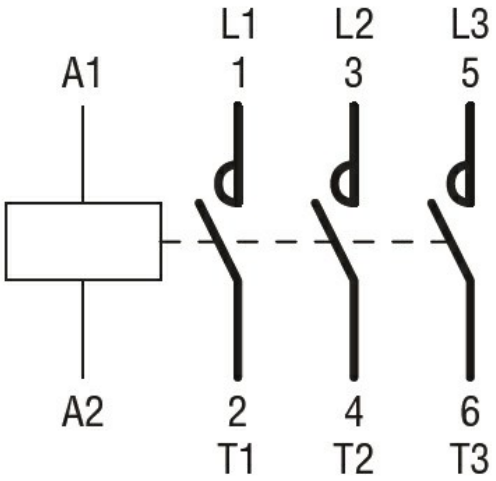


CONTACTOR TYPE	A	B	C
B500	M10	35 (1.38")	265 (10.43")
B630	M12	40 (1.57")	270 (10.63")

Wiring diagrams



Certifications and compliance

Certifications

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

Compliance

CCC
cULus
EAC

ETIM 6 classification

EC000066 - Power contactor, AC switching