



Product designation Product type designation			Power contactor B630
Contact characteristics			B030
Number of poles		Nr.	4
Rated insulation voltage Ui IEC/EN		V	1000
Rated impulse withstand voltage Uimp		kV	8
Operational frequency			
	min	Hz	25
	max	Hz	400
IEC Conventional free air thermal current Ith		А	800
Operational current le			
	AC-1 (=40°C)	А	800
	AC-1 (=55°C)	А	640
	AC-1 (=70°C)	А	540
	AC-3 (=440V =55°C)	А	630
	AC-4 (400V)	А	260
Rated operational power AC-1 (T=40°C)	· · · ·		
	230V	kW	288
	400V	kW	500
	500V	kW	655
	690V	kW	860
IEC max current le in DC1 with L/R = 1ms with 1 poles in series			
	75V	А	800
	110V	А	460
	220V	А	
	330V	А	
	460V	А	
IEC max current le in DC1 with L/R = 1ms with 2 poles in series			
	75V	А	800
	110V	А	800
	220V	А	700
	330V	А	
	460V	А	
IEC max current le in DC1 with L/R = 1ms with 3 poles in series			
	75V	А	800
	110V	А	800
	220V	А	800
	330V	А	700
	460V	А	
IEC max current le in DC1 with L/R = 1ms with 4 poles in series			
	75V	А	800
	110V	А	800
	220V	А	800
	330V	А	750
	460V	А	700

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IEC max current le in DC3-DC5 with L/R = 15ms with 1 poles in series			
	75V	А	800
	110V	А	460
	220V	А	
	330V	А	
	460V	А	
EC max current le in DC3-DC5 with L/R = 15ms with 2 poles in series			
	75V	А	800
	110V	А	800
	220V	А	700
	330V	А	
	460V	А	
EC max current le in DC3-DC5 with L/R = 15ms with 3 poles in series			
	75V	А	800
	110V	A	800
	220V	A	800
	330V	A	650
	460V	A	
EC max current le in DC3-DC5 with L/R = 15ms with 4 poles in series	100 V	7.	
	75V	А	800
	110V	A	800
	220V	A	800
	330V	A	650
	460V	A	700
Short-time allowable current for 10s (IEC/EN60947-1)	100 V	A	5040
Protection fuse		7.	0010
	gG (IEC)	А	1000
	aM (IEC)	A	630
Making capacity (RMS value)		A	6300
Breaking capacity at voltage		7.	0000
Broaking supulity at voltage	440V	А	6300
	500V	A	5600
	690V	A	5000
Posistanco por polo (ovorago valuo)	0900	 m?	0.14
Resistance per pole (average value) Power dissipation per pole (average value)		111 !	0.14
Power dissipation per pole (average value)	lth	W	90
	AC3	W	56
Tightening torque for terminals	700	••	30
	min	Nm	55
	max	Nm	55
	min	Ibin	40.6
	max	Ibin	40.6
Tightening torque for coil terminal	Παλ		-U.U
	min	Nm	1
		Nm	1
	max		
	min	lbin Ibin	0.74 0.74
Max number of wires simultaneously connectable	max		2
Max number of wires simultaneously connectable		Nr.	۷
Conductor section			
AWG/Kcmil			0v 600 kemil
	max		2x 600 kcmil IP00
Power terminal protection according to IEC/EN 60529			



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Operating position

Operating position	normal allowable		Vertical plan ±30°
Fixing			Screw
Weight		g	2194
Conductor section			
AWG/kcmil conductor section			
	max		2x 600 kcmil
Dperations			
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		0/11	
	min	%Us	20
	max	%Us	60
of 50/60Hz coil powered at 60Hz			
pick-up		0/11-	00
	min	%Us	80
	max	%Us	110
drop-out	•	0/11-	20
	min	%Us	20
	max	%Us	60
of 60Hz coil powered at 60Hz			
pick-up	*·	0/11-	90
	min	%Us	80
	max	%Us	110
drop-out		0/110	20
	min	%Us	20
AC average sail consumption at 20°C	max	%Us	60
AC average coil consumption at 20°C			
of 50/60Hz coil powered at 50Hz	ام. بير ميا	١/٨	400
	in-rush	VA	400
	holding	VA	18
of 50/60Hz coil powered at 60Hz		174	400
	in-rush	VA	400
	holding	VA	18
Dissipation at holding =20°C 50Hz DC coil operating		W	18

DC rated control voltage



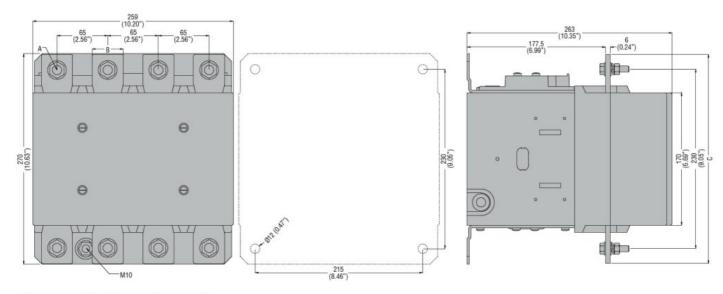
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220...240VAC/DC

			min	V	220
			max	V	240
DC operating voltage				•	
5 - 1 - 1 - 5	pick-up				
			min	%Us	80
			max	%Us	110
	drop-out				
			min	%Us	20
	tian -00%0		max	%Us	60
Average coil consump	$a = 20^{\circ} \text{C}$		in-rush	W	400
			holding	W	18
Max cycles frequency			Holding	vv	10
Mechanical operation				cycles/h	1200
Operating times					
Average time for Us co	ontrol				
-	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	Пал	mo	100
		- pg	min	ms	60
			max	ms	100
UL technical data					
General USE					
	Contactor			_	
0	(000) (AC current	Α	800
Short-circuit protection					
	Standard fault		Short circuit current	kA	18
			Fuse rating	A	1500
			Fuse class		L
Ambient conditions					
Temperature					
-	Operating temperature				
	-		min	°C	-50
			max	°C	70
	Storage temperature				
			min	°C	-60
			max	°C	80
Max altitude				m	3000
Resistance & Protection	on				2
Pollution degree					3
Dimensions					

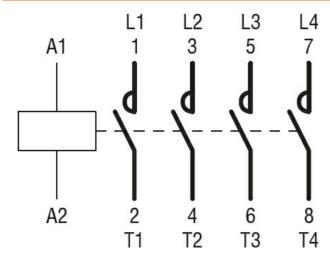


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CONTACTOR TYPE	A	В	C
B500	M10	35 (1.38")	265 (10.43*)
B630	M12	40 (1.57")	270 (10.63*)

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		
	CCC	
	cULus	
	EAC	
ETIM classificatio	n	
ETIM 8.0		EC000066 - Power contactor, AC switching

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