



Product designation			Power contactor
Product type designation			B630
Contact characteristics			
Number of poles		Nr.	3
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	210
Rated operational power AC-3 (T≤55°C)			
	230V	kW	198
	400V	kW	355
	415V	kW	368
	440V	kW	368
	500V	kW	368
	690V	kW	440
	1000V	kW	368
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 $L/R \le 1$ ms with 1 poles in series			
	75V	А	800
	110V	A	460
	220V	A	
	330V	A	
	460V	A	
IEC max current le in DC1 with $L/R \le 1$ ms with 2 poles in series			
	75V	A	800
	110V	A	800
	220V	Α	700
	330V	Α	
	460V	A	
IEC max current le in DC1 with $L/R \le 1$ ms with 3 poles in series		-	
	75V	A	800
	110V	Α	800
	220V	A	800

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	330V	А	700
	460V	А	
IEC max current le in DC1 with $L/R \le 1$ ms with 4 poles in series			
	75V	А	800
	110V	А	800
	220V	А	800
	330V	А	750
	460V	Α	700
IEC max current le in DC3-DC5 with L/R \leq 15ms with 1 poles in series			
	75V	А	800
	110V	А	460
	220V	А	
	330V	А	
	460V	A	
IEC max current le in DC3-DC5 with L/R \leq 15ms with 2 poles in series			
	75V	А	800
	110V	A	800
	220V	A	700
	330V	A	
	460V	A	
IEC max current le in DC3-DC5 with L/R \leq 15ms with 3 poles in series			
	75V	A	800
	110V	A	800
	220V	A	800
	330V	A	650
$I_{\rm EC}$ may surrant lo in DC2 DC5 with $1/D < 45$ may with 4 notes in parise	460V	A	
IEC max current le in DC3-DC5 with L/R \leq 15ms with 4 poles in series	751/	٨	000
	75V 110V	A	800
	220V	A A	800 800
	330V	A	650
	460V	A	700
Short-time allowable current for 10s (IEC/EN60947-1)	400 V	A	5040
Protection fuse		~	5040
r Totection Tuse	gG (IEC)	А	1000
	aM (IEC)	A	630
Making capacity (RMS value)		A	6300
Breaking capacity at voltage		~	0000
Drouking oupdoily at voltage	440V	А	6300
	440V 500V	A	5600
	690V	A	5000
Resistance per pole (average value)	0001	mΩ	0.14
Power dissipation per pole (average value)		11122	5.1.1
	lth	W	90
	AC3	W	56
Tightening torque for terminals	700	**	
	min	Nm	55
	max	Nm	55
	min	Ibin	40.6
	max	Ibin	40.6
Tightening torque for coil terminal	max		
	min	Nm	1
	max	Nm	1
	max		



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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	1836
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		o	
	min	%Us	80
· · ·	max	%Us	110
drop-out		0/11	00
	min	%Us	20
	max	%Us	60
of 60Hz coil powered at 60Hz			
pick-up		0/11-	90
	min	%Us	80 110
dr	max	%Us	110
drop-out	min	%Us	20
		%Us %Us	20 60
AC average coil consumption at 20°C	max	<i>∕</i> ₀US	00
-			
of 50/60Hz coil powered at 50Hz	in-rush	VA	400
of ED/COLLE and Environment of COLLE	holding	VA	18
of 50/60Hz coil powered at 60Hz		\//	400
	in-rush	VA VA	400 18
	holding		

DC rated control voltage

¹¹B63000220



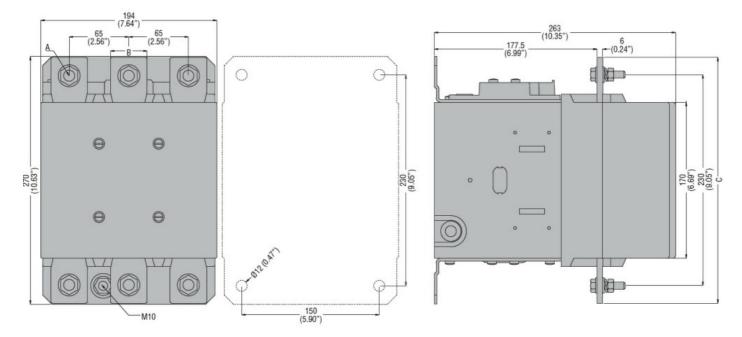
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			min	V	220
			max	V	240
DC operating voltage					
	pick-up				
			min	%Us	80
			max	%Us	110
	drop-out			0/11-	00
			min	%Us %Us	20 60
Average coil consump	tion <20°C		max	7005	00
			in-rush	W	400
			holding	Ŵ	18
Max cycles frequency					
Mechanical 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	Παλ	1113	100
		oponing No	min	ms	60
			max	ms	100
UL technical data					
General USE					
	Contactor				
			AC current	А	800
Short-circuit protection					
	Standard fault				
			Short circuit current	kA	18
			Fuse rating	А	1500
Ambiont-conditions			Fuse class		L
Ambient conditions Temperature					
remperature	Operating temperature				
			min	°C	-50
			max	°C	70
	Storage temperature		max		
			min	°C	-60
			max	°C	80
Max altitude				m	3000
Resistance & Protectic	on				
Pollution degree					3
Dimensions					



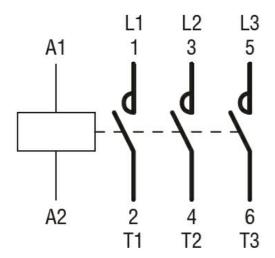
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CONTACTOR TYPE	A	В	C
B500	M10	35 (1.38")	265 (10.43")
B630	M12	40 (1.57")	270 (10.63")

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 classification	

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ETIM 8.0

EC000066 -Power contactor, AC switching