ENERGY AND AUTOMATION

THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 630A, AC/DC COIL, **electric** ALREADY FITTED WITH MECHANICAL LATCH (G495), 220...240VAC/DC, MECHANICAL LATCH 220...240VDC



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		Α	800
Operational current le			
	AC-1 (≤40°C)	Α	800
	AC-1 (≤55°C)	Α	640
	AC-1 (≤70°C)	Α	540
	AC-3 (≤440V ≤55°C)	Α	630
	AC-4 (400V)	Α	260
Rated operational power AC-3 (T≤55°C)			
	400V	kW	355
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	Α	800
	110V	Α	460
	220V	Α	
	330V	Α	
	460V	Α	
IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series			
	75V	Α	800
	110V	Α	800
	220V	Α	700
	330V	Α	
	460V	A	
IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series			
	75V	Α	800
	110V	Α	800
	220V	Α	800
	330V	Α	700
	460V	Α	
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series			
	75V	Α	800
	110V	Α	800
	220V	Α	800

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	330V	Α	750
	460V	Α	700
EC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series			
	75V	Α	800
	110V	Α	460
	220V	Α	
	330V	Α	
	460V	Α	
EC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series			
	75V	Α	800
	110V	Α	800
	220V	Α	700
	330V	Α	
	460V	Α	
EC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series			
	75V	Α	800
	110V	A	800
	220V	Α	800
	330V	A	650
	460V	A	
EC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series	400 V		
EO max current le in 200-200 with E/N = 10m3 with 4 poics in series	75V	Α	800
	110V	A	800
	220V	A	800
	330V	A	650
	460V	A	700
Short time allowable surrent for 10s (IEC/ENS0047.1)	400 V		
Short-time allowable current for 10s (IEC/EN60947-1) Protection fuse		Α	5040
Protection ruse	~O (IEO)	۸	4000
	gG (IEC)	A	1000
Anline and a site (DMC and an)	aM (IEC)	A	630
Making capacity (RMS value)		Α	6300
Breaking capacity at voltage	4.403.4	•	0000
	440V	A	6300
	500V	Α	5600
	690V	Α	5000
Resistance per pole (average value)		mΩ	0.14
Power dissipation per pole (average value)		_	
	Ith	W	90
	AC-3	W	56
Fightening torque for terminals			
	min	Nm	55
	max	Nm	55
	min	lbin	40.6
	max	lbin	40.6
Fightening torque for coil terminal			
	min	Nm	1
	max	Nm	1
	min	lbin	0.74
	max	lbin	0.74
Max number of wires simultaneously connectable		Nr.	2
Conductor section			
AWG/Kcmil			
, 5/10/11/1	max		2x 600 kcmil
	111071		



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Power terminal protect	tion according to IEC/EN 60529			IP00
Mechanical features	<u> </u>			
Operating position				
		normal		Vertical plan
		allowable		±30°
Fixing				Screw
Weight			g	1907
Conductor section				
	AWG/kcmil conductor section			
		max		2x 600 kcmil
Operations				
Mechanical life			cycles	5000000
Electrical life			cycles	700000
Safety related data				
Performance level B10	Od according to EN/ISO 13489-1			
		rated load	cycles	700000
		mechanical load	cycles	5000000
	ng to IEC/EN 609474-4-1			yes
EMC compatibility				yes
AC coil operating				
Rated AC voltage at 50	0/60Hz, 60Hz			
		min	V	220
-		max	V	240
AC operating voltage				
	of 50/60Hz coil powered at 50Hz			
	pick-up			
		min	%Us	80
	<u>.</u>	max	%Us	110
	drop-out			
		min	%Us	20
	(50/0011	max	%Us	60
	of 50/60Hz coil powered at 60Hz			
	pick-up	•.	0/11-	00
		min	%Us	80
	duan aut	max	%Us	110
	drop-out		0/11-	20
		min	%Us %Us	20 60
	of 60Hz coil powered at 60Hz	max	/005	00
	pick-up			
	pick-up	min	%Us	80
		max	%Us	110
	drop-out	Παλ	/003	110
	diop out	min	%Us	20
		max	%Us	60
AC average coil consu	Imption at 20°C	max	,,,,,	
a.	of 50/60Hz coil powered at 50Hz			
	5. 55/55/12 55/1 poworod at 50/12	in-rush	VA	400
		holding	VA	18
	of 50/60Hz coil powered at 60Hz	Holding	٧,١	
	5. 55/55/12 55/1 powered at 50/12	in-rush	VA	400
		holding	VA	18
Dissipation at holding:	<20°C 50Hz	Holding	W	18
oo.pa.ion at noiding .			• •	. •

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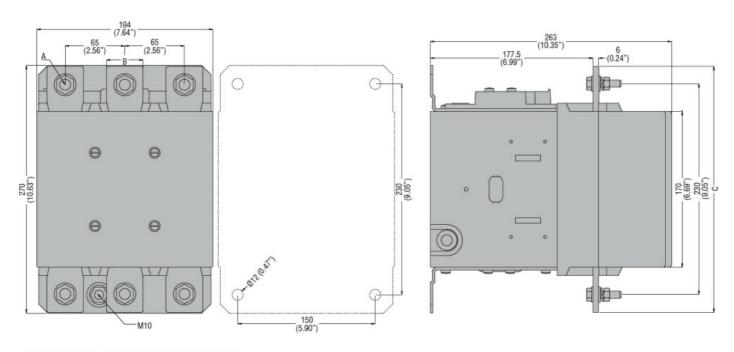
DC praid provided provide	DC coil operating					
Max V 220 Max V 220 Max V 240 Max		е				
DC operating voltage pick-up min max %Us 80 max drop-out min max %Us 110 Average coil consumption ≤20°C in-rush max W 400 Average coil consumption ≤20°C in-rush max W 400 Max cycles frequency Wechanical operation cycles/h 1200 Mechanical operation cycles/h 1200 Operating times max ms 110 Average time for Us control in AC min ms 110 max ms 180 Opening NO min ms 100 ms 100	J			min	V	220
Pick-up min min				max	V	240
Max o'gles frequency	DC operating voltage					
March Mar		pick-up				
Average coil consumption ≤20°C In-rush Max oycles frequency In-rush In-				min	%Us	80
Marka Mar				max	%Us	110
Average coil consumption ≤20°C in-rush holding W 400		drop-out				
Average coil consumption ≤20°C in-rush w 400 holding w 18 Max cycles frequency Mechanical operation cycles/h 1200 Operating times Average time for Us control in AC				min		
In-rush Nolding Nol				max	%Us	60
Max cycles frequency	Average coil consumpt	ion ≤20°C				
Mack precision cycles/h 1200 Operating times Average time for Us control min ms 110 Closing NO min ms 110 max ms 100 Closing NO min ms 110 max ms 180 Opening NO min ms 100 UL technical data General USE Contactor AC current A 800 Short-circuit protection fuse, 600V Standard fault Short-circuit current kA 18 Fuse rating A 1500 Fuse class L Ambient conditions Temperature Min °C -50 min °C -50 min °C -50 Max altitude min °C -60<						
Mechanical operating times cycles/h 1200 Operating times In AC Closing NO min max ms				holding	W	18
Operating times Average time for Us control in AC						1000
Average time for Us control in AC Closing NO					cycles/h	1200
Closing NO		ntrol				
Closing NO	Average unie for US CO					
Max a Max		III AC	Closing NO			
Max			Ciosing NO	min	me	110
Opening NO min ms 60 max ms 100 max ms 100 max ms 100 max ms 100 max ms 110 max ms 180 max ms 180 max ms 180 max ms 100 ms 1						
In DC Closing NO			Opening NO	max	1110	100
Max Mis 100			opolinig ito	min	ms	60
In DC						
Closing NO		in DC				
Min		-	Closing NO			
Opening NO			J	min	ms	110
Min max Min				max	ms	180
Max			Opening NO			
Contactor				min	ms	
Contactor				max	ms	100
Contactor AC current A 800						
AC current	General USE					
Short-circuit protection fuse, 600V Standard fault Short circuit current kA 18 Fuse rating A 1500 Fuse class L		Contactor			_	
Standard fault	0			AC current	Α	800
Short circuit current Fuse rating Fuse rating Fuse class Fus	Snort-circuit protection					
Fuse rating Fuse class		Standard fault		Chart singuit sums	IzΛ	10
Fuse class L						
Ambient conditions				_	^	
Operating temperature	Ambient conditions			i use ciass		
Operating temperature min °C -50 max °C 70 Storage temperature min °C -60 max °C 80 Max altitude m 3000 Resistance & Protection Pollution degree 3						
min min max °C -50 max -50 70 Storage temperature min °C -60 max °C 80 Max altitude m 3000 Resistance & Protection 9 3		Operating temperature				
max °C 70 Storage temperature min °C -60 max °C 80 Max altitude m 3000 Resistance & Protection 3 Pollution degree 3		19		min	°C	-50
Storage temperature min or company or c						
min max °C -60 max -60 max 80 Max altitude m 3000 Resistance & Protection 3 Pollution degree 3		Storage temperature				
Max altitude m 3000 Resistance & Protection Pollution degree 3				min	°C	-60
Resistance & Protection Pollution degree 3				max	<u>°C</u>	80
Pollution degree 3					m	3000
<u> </u>		n				
Dimensions						3
	Dimensions					

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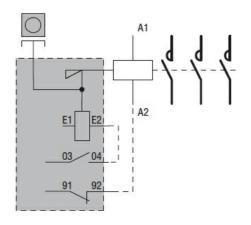
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CONTACTOR TYPE	A	В	С
B500	M10	35 (1.38")	265 (10.43")
B630	M12	40 (1.57")	270 (10.63")

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

cULus

ETIM classification

ETIM 8.0

EC000066 -Power contactor, AC switching