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...240VAC

ENERGY AND AUTOMATION



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	Α	
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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ENERGY AND AUTOMATION

220...240VAC

	330V	Α	750
	460V	Α	700
IEC 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	
IEC 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	
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series			
- 1	75V	Α	800
	110V	Α	800
	220V	Α	800
	330V	Α	650
	460V	A	
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series	400 V		
TEO Max current le in 500-500 with E/N 3 10m3 with 4 poles in senes	75V	Α	800
	110V	A	800
	220V		
		A	800
	330V	A	650 700
OL + 4 (5 - + + + + + + + + + + + + + + + + + +	460V	A	
Short-time allowable current for 10s (IEC/EN60947-1)		Α	5040
Protection fuse	. 0 (150)	Δ.	4000
	gG (IEC)	A	1000
	aM (IEC)	Α	630
Making capacity (RMS value)		A	6300
Breaking capacity at voltage			
	440V	Α	6300
	500V	Α	5600
	690V	A	5000
Resistance per pole (average value)		mΩ	0.14
Power dissipation per pole (average value)			
	Ith	W	90
	AC-3	W	56
Tightening torque for terminals			
	min	Nm	55
	max	Nm	55
	min	lbin	40.6
	max	lbin	40.6
Tightening 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			
AWG/RGIIII			

2x 600 kcmil

max

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220...240VAC

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ENERGY AND AUTOMATION

Power terminal protection according to IEC/EN 60529 IP00 Mechanical features Operating position Vertical plan normal allowable ±30° Fixing Screw Weight 1902 g **Operations** Mechanical life 5000000 cycles Electrical life 700000 cycles Safety related data Performance level B10d according to EN/ISO 13489-1 rated load 700000 cycles mechanical load 5000000 cycles Mirror contats according to IEC/EN 609474-4-1 Yes **EMC** compatibility yes AC coil operating Rated AC voltage at 50/60Hz, 60Hz ٧ min 220 ٧ 240 max AC operating voltage of 50/60Hz coil powered at 50Hz pick-up %Us 80 min %Us 110 max drop-out %Us 20 min max %Us 60 of 50/60Hz coil powered at 60Hz pick-up %Us 80 min max %Us 110 drop-out %Us 20 min %Us max 60 of 60Hz coil powered at 60Hz pick-up min %Us 80 %Us 110 max drop-out %Us 20 min %Us 60 max AC average coil consumption at 20°C 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 220 min ٧



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ENERGY AND AUTOMATION

220...240VAC

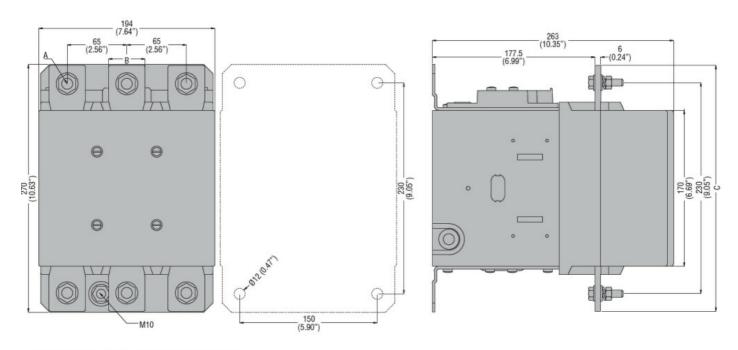
			max	V	240
DC operating voltage					
	pick-up				
			min	%Us	80
			max	%Us	110
	drop-out		min	%Us	20
			max	%Us	60
Average coil consumpt	tion ≤20°C		max	7000	
, wordige com comodinip			in-rush	W	400
			holding	W	18
Max cycles frequency					
Mechanical operation				cycles/h	1200
Operating times					
Average time for Us co					
	in AC	Clasina NO			
		Closing NO	min	ms	110
			max	ms	180
		Opening NO	max	1113	100
		Gp3g	min	ms	60
			max	ms	100
	in DC				
		Closing NO			
			min	ms	110
			max	ms	180
		Opening NO			00
			min max	ms ms	60 100
UL technical data			IIIax	1113	100
Rated operational volta	age AC (UL)			V	600
General USE	-9 (- /				
	Contactor				
			AC current	Α	800
Short-circuit protection					
	Standard fault				
			Short circuit current	kA	18
			Fuse rating	Α	1500
Ambient conditions			Fuse class		L
Temperature					
romporature	Operating temperature				
	oporating temperature		min	°C	-50
			max	°C	70
	Storage temperature				
	-		min	°C	-60
			max	°C	80
Max altitude				m	3000
Resistance & Protection	on				
Pollution degree					3
Dimensions					

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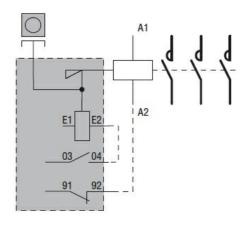
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ENERGY AND AUTOMATION 220...240VAC



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