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THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 630A, AC/DC COIL, electric already fitted with Mechanical Latch (G495), 220...240VAC/DC, Mechanical Latch

ENERGY AND AUTOMATION 110...125VDC



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
	2200	^	300

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ENERGY AND AUTOMATION 110...125VDC

	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			
	75V	Α	800
	110V	Α	800
	220V	Α	800
	330V	Α	650
	460V	Α	
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series			
	75V	Α	800
	110V	Α	800
	220V	Α	800
	330V	Α	650
	460V	Α	700
Short-time allowable current for 10s (IEC/EN60947-1)		Α	5040
Protection fuse			
	gG (IEC)	Α	1000
	aM (IEC)	Α	630
Making capacity (RMS value)		Α	6300
Breaking capacity at voltage			
	440V	Α	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
Tightening torque for terminals			
	min	Nm	55
	max	Nm	55
	min	Ibin	40.6
	max	Ibin	40.6
Tightening torque for coil terminal			
	min	Nm	1
	max	Nm	1
	min	Ibin	0.74
	max	Ibin	0.74
Max number of wires simultaneously connectable		Nr.	2
Conductor section			
AWG/Kcmil			
	max		2x 600 kcmil

max 2x 600 kcmil

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ENERGY AND AUTOMATION

110...125VDC

Departing position	Power terminal protect	ion according to IEC/EN 60529			IP00
Normal N	Mechanical features				
State	Operating position				
Screw Weight			normal		Vertical plan
Meight			allowable		±30°
Deterations	Fixing				Screw
Deterations	Weight			g	1907
Comparison Com	Operations				
Caretal life	Mechanical life			cycles	5000000
Performance level B10d according to EN/ISO 13489-1 rated load mechanical load cycles 5000000	Electrical life				700000
Performance level B10d according to EN/ISO 13489-1 rated load cycles 5000000 mechanical load cycles 5000000 mechanical load cycles 5000000 well compatibility yes yes Cooli 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				,	
Rated load Cycles 700000 100000 1000000 1000000 1000000 1000000 1000000 1000000 10000000 10000000 10000000 10000000 100000000		od according to EN/ISO 13489-1			
Mirror contats according to IEC/EN 609474-4-1		3	rated load	cvcles	700000
Mirror contats according to IEC/EN 609474-4-1 Moreof conjugation in the contact of the control				-	
EMC compatibility yes **C coil operating Rated AC voltage at 50/60Hz, 60Hz **C operating voltage **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 **min %Us 80 max %Us 110 drop-out **min %Us 80 max %Us 110 drop-out **min %Us 80 max %Us 110 drop-out **min %Us 20 max %Us 110 drop-out **min %Us 80 max %Us 110 drop-out **min %Us 80 max %Us 110 drop-out **min %Us 80 max %Us 60 **of 60Hz coil powered at 60Hz pick-up **min %Us 80 max %Us 110 drop-out **min %Us 80 max %Us 110 drop-out **min %Us 80 max %Us 110 drop-out **min %Us 80 max %Us 60 **AC average coil consumption at 20°C of 50/60Hz coil powered at 50Hz **in-rush VA 400 holding VA 18 **Dissipation at holding ≤20°C 50Hz **Do coil operating **Do coil	Mirror contats according	ng to IEC/EN 609474-4-1		0,0.00	
Cooli operating Rated AC voltage at 50/60Hz, 60Hz min		19 10 12 0/2/14 000 1/ 1 1 1			
Rated AC voltage at 50/60Hz, 60Hz min					<i>y</i> 00
Min V 220 Max V 240 Max Wus 110 Max Wus 110 Max Wus 110 Max Wus 20 Max Wus 50		0/60Hz 60Hz			
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 min %Us 80 max %Us 110 drop-out min %Us 80 max %Us 110 drop-out min %Us 20 max %Us 110 drop-out min %Us 20 max %Us 60 of 60Hz coil powered at 60Hz pick-up of 60Hz coil powered at 60Hz pick-up min %Us 80 max %Us 110 drop-out min %Us 80 max %Us 110 drop-out min %Us 20 max %Us 110 drop-out min %Us 80 max %Us 110 drop-out min %Us 80 max %Us 110 drop-out min %Us 80 max %Us 110 drop-out min %Us 20 max %Us 60 AC average coil consumption at 20°C of 50/60Hz coil powered at 50Hz in-rush VA 400 holding VA 18 Dissipation at holding ≤20°C 50Hz W 18 Dissipation at holding ≤20°C 50Hz W 18	rated no vellage at of	0.00112, 00112	min	\/	220
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 min %Us 80 max %Us 110 drop-out min %Us 80 max %Us 110 drop-out min %Us 20 max %Us 60 of 60Hz coil powered at 60Hz pick-up min %Us 80 max %Us 60 of 60Hz coil powered at 60Hz pick-up min %Us 80 max %Us 110 drop-out min %Us 80 max %Us 60 visual settle settl					
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 min %Us 80 max %Us 110 drop-out min %Us 80 max %Us 110 drop-out min %Us 20 max %Us 110 drop-out min %Us 80 max %Us 60 of 60Hz coil powered at 60Hz pick-up min %Us 80 max %Us 60 of 60Hz coil powered at 60Hz pick-up min %Us 80 max %Us 110 drop-out min %Us 20 max %Us 110 drop-out min %Us 20 max %Us 60 AC average coil consumption at 20°C of 50/60Hz coil powered at 50Hz in-rush VA 400 holding VA 18 Dissipation at holding ≤20°C 50Hz W 18 Dissipation at holding ≤20°C 50Hz W 18 Dissipation at control voltage W 18 Dissipation at control voltag	AC operating voltage		Παλ	v	240
Pick-up min %Us 80 max %Us 110 Mus 110 Mus	AC operating voltage	of FO/GOLLT and powered at FOLLT			
min %Us 80 max %Us 110 Max %Us 110 Max %Us 110 Max %Us 110 Max %Us 60 Max %Us 80 Max %Us 60 Max %Us 60 Max Max %Us 80 Max %Us 110 Max M		-			
Max		ріск-ир	min	0/110	0.0
drop-out min %Us 20 max %Us 60					
min MUS 20 max MUS 60		draw aut	max	%US	110
Max WUs 60		arop-out		0/11-	00
of 50/60Hz coil powered at 60Hz pick-up min %Us 80 max %Us 110 drop-out min %Us 20 max %Us 60 of 60Hz coil powered at 60Hz pick-up min %Us 80 max %Us 110 drop-out min %Us 80 max %Us 110 drop-out min %Us 80 max %Us 110 drop-out min %Us 80 max %Us 100 drop-out min %Us 80 max %Us 100 drop-out min %Us 80 max %Us 110 drop-out min %Us 80 max %Us 110 drop-out min %Us 20 max %Us 60 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 V 18 OC coil operating OC rated control voltage					
pick-up min %Us 80 max %Us 110		(50/0011 11 1 1 1 0011	max	%US	60
Min WUS 80 max WUS 110 Min WUS 20 max WUS 60 Min WUS 20 max WUS 60 Min WUS 60 Min WUS 80 max WUS 110 Min WUS 80 max WUS 110 Min WUS 20 max WUS 110 Min WUS 20 max WUS 60 Min WUS Min		•			
Max WUs 110 Min Mus 20 Max WUs 60 Max WUs 60 Max Mus 60 Mus Mus Mus 60 Mus Mu		pick-up			
drop-out min %Us 20 max %Us 60					
min wus 20 max wus 60			max	%Us	110
max %Us 60		drop-out	_		
of 60Hz coil powered at 60Hz pick-up min %Us 80 max %Us 110 drop-out min %Us 20 max %Us 60 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			min		
pick-up min %Us 80 max %Us 110 drop-out min %Us 20 max %Us 60 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 Crated control voltage			max	%Us	60
min %Us 80 max %Us 110		•			
Max WUs 110		pick-up			
drop-out min %Us 20 max %Us 60 AC average coil consumption at 20°C of 50/60Hz coil powered at 50Hz in-rush holding VA 18 of 50/60Hz coil powered at 60Hz in-rush holding VA 18 Dissipation at holding ≤20°C 50Hz Crated control voltage			min		
min max			max	%Us	110
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 Use the coil power of the coi		drop-out			
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 Crated control voltage			min		
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 Crated control voltage			max	%Us	60
in-rush VA 400 holding VA 18 of 50/60Hz coil powered at 60Hz in-rush VA 400 holding VA 18 in-rush VA 400 holding VA 18 Dissipation at holding ≤20°C 50Hz W 18 DC coil operating DC rated control voltage	AC average coil consu	mption at 20°C			
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		of 50/60Hz coil powered at 50Hz			
of 50/60Hz coil powered at 60Hz in-rush VA 400 holding VA 18 Dissipation at holding ≤20°C 50Hz C coil operating C rated control voltage			in-rush	VA	400
in-rush VA 400 holding VA 18 Dissipation at holding ≤20°C 50Hz W 18 DC coil operating DC rated control voltage			holding	VA	18
holding VA 18 Dissipation at holding ≤20°C 50Hz W 18 DC coil operating DC rated control voltage		of 50/60Hz coil powered at 60Hz			
Dissipation at holding ≤20°C 50Hz W 18 DC coil operating DC rated control voltage		•	in-rush	VA	400
DC coil operating DC rated control voltage			holding	VA	18
DC coil operating DC rated control voltage	Dissipation at holding	≤20°C 50Hz	<u> </u>	W	
DC rated control voltage	DC coil operating				
		ge			
min v 220		•	min	V	220

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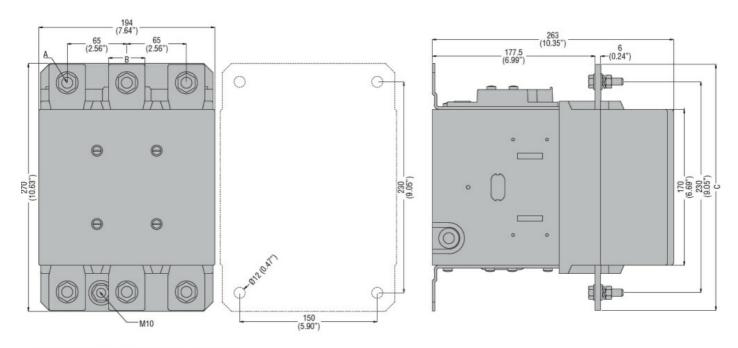
ENERGY AND AUTOMATION 110...125VDC

			max	V	240
DC operating voltage					
	pick-up				
			min	%Us	80
	-		max	%Us	110
	drop-out				
			min	%Us	20
- 			max	%Us	60
Average coil consump	tion ≤20°C			101	100
			in-rush	W	400
May avalog froguency			holding	W	18
Max cycles frequency Mechanical operation				eveloc/b	1200
Operating times				cycles/h	1200
Average time for Us co	ontrol				
Avorago umo for co oc	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			0.0
			min	ms	60
UL technical data			max	ms	100
Rated operational volta	age AC (UL)			V	600
General USE	390710 (02)			•	
000.0.	Contactor				
			AC current	Α	800
Short-circuit protection	n fuse, 600V				_
·	Standard fault				
			Short circuit current	kA	18
			Fuse rating	Α	1500
			Fuse class		L
Ambient conditions					
Temperature					
	Operating temperature				
			min	°C	-50 -70
	Charage to an anatomic		max	°C	70
	Storage temperature			°C	60
			min	°C	-60 80
Max altitude			max		3000
Resistance & Protection	n			m	3000
Pollution degree	, , , , , , , , , , , , , , , , , , , 				3
Dimensions					
DIMONOIONS -					



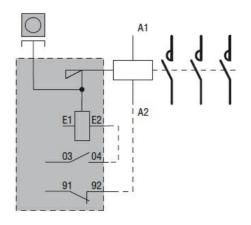
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ENERGY AND AUTOMATION 110...125VDC



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