

# THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 630A, AC/DC COIL, 48VAC/DC



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			0.5
	min	Hz	25
IFO Occupational from single control control lab	max	Hz	400
IEC Conventional free air thermal current Ith		Α	800
Operational current le	10.4 (11000)		000
	AC-1 (≤40°C)	A	800
	AC-1 (≤55°C)	A	640
	AC-1 (≤70°C)	A	540
	AC-3 (≤440V ≤55°C)	A	630
D. I. J. J. A.O.O. (T. 45500)	AC-4 (400V)	A	260
Rated operational power AC-3 (T≤55°C)	0001/		4.0.0
	230V	kW	198
	400V	kW	355
	415V	kW	368
	440V	kW	368
	500V	kW	368
	690V	kW	440
Detect energtional newer AC 1 (T<10°C)	1000V	kW	368
Rated operational power AC-1 (T≤40°C)	0001/	1-147	000
	230V	kW	288
	400V 500V	kW kW	500 655
	690V	kW	860
IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series	090 V	KVV	000
TEC max current le in DCT with L/R \( \) This with T poles in series	75\/	۸	900
	75V 110V	A A	800 460
	220V	A	
	330V	_	<b></b>
	460V	A A	
IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series	400 V		
TEO max current le in DOT with E/N 3 mis with 2 poles in series	75V	Α	800
	110V	A	800
	220V	A	700
	330V	A	700 
	460V	A	 
IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series	400 V	^	<u> </u>
	75V	Λ	800
	75V 110V	A A	800
	220V	A	800
	220 V	^	500



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	330V	Α	700
	460V	Α	<b></b>
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series			
	75V	Α	800
	110V	Α	800
	220V	Α	800
	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	1001	- , ,	
120 max outfork to in 200 200 with 2/1/2 forms with 2 poles in series	75V	Α	800
	110V	A	800
	220V	A	700
	330V		
		A	
IFO	460V	Α	
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series	751	•	222
	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			
	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	A	5600
	690V	A	5000
Resistance per pole (average value)	330 V	mΩ	0.14
Power dissipation per pole (average value)		11122	<u> </u>
i ower dissipation per pole (average value)	Ith	W	90
	AC-3	W	
Tightoning targue for tarminals	AU-3	٧٧	56
Tightening torque for terminals		<b>N</b> 1 .	F.F.
	min	Nm	55
	max	Nm	55
	min	lbin	40.6
	max	Ibin	40.6
Tightening torque for coil terminal			
	min	Nm	1
	max	Nm	1





## THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 630A, AC/DC COIL,

		min	Ibin	0.74
		max	Ibin	0.74
Max number of wires simultaneous	sly connectable		Nr.	2
Conductor section				
AWG/Kcm	nil			
		max		2x 600 kcmil
Power terminal protection according	ng to IEC/EN 60529			IP00
Mechanical features				
Operating position		normal		Vertical plan
		normal allowable		Vertical plan ±30°
Fixing		allowable		Screw
Weight			α	1840
Conductor section			g	1040
	il conductor section			
AVVO/Rollin	ii conductor section	max		2x 600 kcmil
Operations		max		_/, 000 KOIIII
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	N 609474-4-1			yes
EMC compatibility				yes
AC coil operating				
Rated AC voltage at 50/60Hz			V	48
AC operating voltage				
of 50/60Hz	z coil powered at 50Hz			
	pick-up			
		min	%Us	80
	done and	max	%Us	110
	drop-out	min	%Us	20
		max	%Us	60
of 50/60H:	z coil powered at 60Hz	Παλ	7003	00
01 30/00112	pick-up			
	pion up	min	%Us	80
		max	%Us	110
	drop-out			
	drop-out	min	%Us	20
	drop-out	min max	%Us %Us	20 60
of 60Hz co	drop-out  Dil powered at 60Hz			
of 60Hz co			%Us	60
of 60Hz co	oil powered at 60Hz		%Us	80
of 60Hz co	oil powered at 60Hz pick-up	max	%Us	60
of 60Hz co	oil powered at 60Hz	max min max	%Us %Us %Us	80 110
of 60Hz co	oil powered at 60Hz pick-up	max min max min	%Us %Us %Us %Us	80 110 20
	oil powered at 60Hz pick-up drop-out	max min max	%Us %Us %Us	80 110
AC average coil consumption at 20	oil powered at 60Hz pick-up drop-out	max min max min	%Us %Us %Us %Us	80 110 20
AC average coil consumption at 20	oil powered at 60Hz pick-up drop-out	max min max min max	%Us %Us %Us %Us %Us	80 110 20 60
AC average coil consumption at 20	oil powered at 60Hz pick-up drop-out	max min max min	%Us %Us %Us %Us	80 110 20



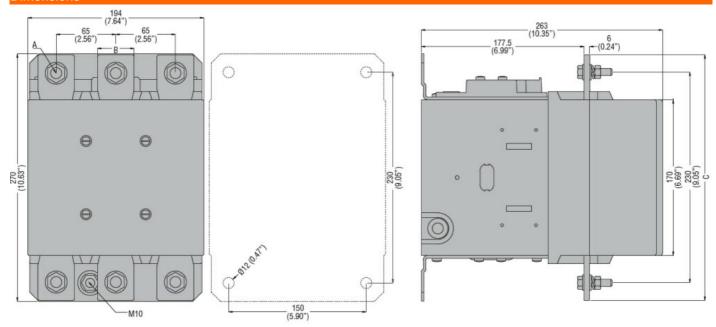
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	of 50/60Hz coil powere	d at 60Hz			
	•		in-rush	VA	400
			holding	VA	18
Dissipation at holding ≤	:20°C 50H <del>z</del>			W	18
DC coil operating	20 0 30112			VV	10
	<u>.</u>			\ /	40
DC rated control voltag	e			V	48
DC operating voltage					
	pick-up				
			min	%Us	80
			max	%Us	110
	drop-out				_
	·		min	%Us	20
			max	%Us	60
Average coil consumpt	ion <20°C			7000	
Average con consumpt	1011 =20 C		in much	14/	400
			in-rush	W	400
			holding	W	18
Max cycles frequency					
Mechanical operation				cycles/h	1200
Operating times					
Average time for Us co	ntrol				
	in AC				
		Closing NO			
		areamig rea	min	ms	110
			max	ms	180
		Opening NO	IIIAX	1113	100
		Opening NO			00
			min	ms	60
			max	ms	100
	in DC				
		Closing NO			
			min	ms	110
			max	ms	180
		Opening NO			
			min	ms	60
			max	ms	100
UL technical data			Тах	1110	100
General USE					
General USE	Oceatostan				
	Contactor		10		000
			AC current	Α	800
Short-circuit protection					
	Standard fault				
			Short circuit current	kA	18
			Fuse rating	Α	1500
			Fuse class		L
Ambient conditions					
Temperature					
	Operating temperature				
	-polating tomporature		min	°C	-50
				°C	-30 70
	Ctarage taras and a		max	U	10
	Storage temperature			2.5	00
			min	°C	-60
-			max	°C	80
Max altitude				m	3000
Resistance & Protectio	n				
Pollution degree					3

**ENERGY AND AUTOMATION** 

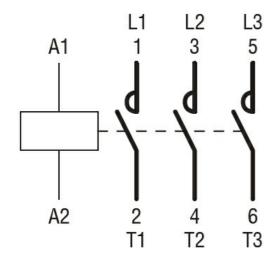
### THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 630A, AC/DC COIL,

#### **Dimensions**



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



#### 11B6300048

THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 630A, AC/DC COIL, 48VAC/DC

ETIM 8.0

EC000066 -Power contactor, AC switching