

FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 800A, AC/DC COIL, 380...415VAC/DC



Number of poles Nit	Product designation Product type designation			Power contactor B630
Rated insulation voltage UirEC/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 A 800 Operational current le AC-1 (≤40°C) A 800 AC-1 (≤55°C) A 640 AC-1 (≤70°C) A 540 AC-2 (≤440V ≤55°C) A 630 AC-4 (400V) A 260 Rated operational power AC-1 (T≤40°C) 230V kW 288 400V kW 500 AC-4 (400V) A 260 A 800 EC 800 BEC BEC A 800 BEC BEC </td <td>· · ·</td> <td></td> <td></td> <td></td>	· · ·			
Rated impulse withstand voltage Uimp	Number of poles		Nr.	4
Operational frequency min max hz max hz max hz max hz	Rated insulation voltage Ui IEC/EN		V	1000
EC Conventional free air thermal current lith	Rated impulse withstand voltage Uimp		kV	8
EC Conventional free air thermal current Ith	Operational frequency			
EC Conventional free air thermal current Ith		min	Hz	25
Operational current le AC-1 (≤40°C) A 800 AC-1 (≤55°C) A 640 AC-1 (≤55°C) A 640 AC-3 (≤440V ≤55°C) A 630 AC-4 (400V) A 260 Rated operational power AC-1 (T≤40°C) 230V kW 288 400V kW 500 500V kW 665 690V kW 860 IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series 75V A 800 110V A 800 220V A 700 330V A - 460V A - IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series 75V A 800 330V A - 460V A - IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series 75V A 800 330V A 700 460V A - IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series 75V A 800 330V A 700 460V A - IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series		max	Hz	400
AC-1 (≤40°C)	IEC Conventional free air thermal current Ith		Α	800
AC-1 (<555°C)	Operational current le			
AC-1 (≤70°C) A 540 AC-3 (≤440V ≤55°C) A 630 AC-4 (400V) A 260 Rated operational power AC-1 (T≤40°C) 230V kW 288 400V kW 500 500V kW 860 IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series 75V A 800 110V A 460 220V A 330V A 460V A IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series 75V A 800 110V A 800 220V A 700 330V A 460V A IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series 75V A 800 110V A 800 220V A 700 330V A 460V A IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series 75V A 800 110V A 800 220V A 700 330V A 460V A IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series 75V A 800 110V A 800 220V A 700 330V A 700 460V A IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series		AC-1 (≤40°C)	Α	800
AC-3 (≤440V ≤55°C) A 630 AC-4 (400V) A 260 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 A 800 110V A 460 220V A 330V A 460V A IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series 75V A 800 110V A 800 220V A 700 330V A 460V A IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series 75V A 800 110V A 800 220V A 700 330V A 460V A IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series 75V A 800 110V A 800 220V A 700 330V A 460V A IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series 75V A 800 110V A 800 220V A 700 460V A IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series		AC-1 (≤55°C)	Α	640
Rated operational power AC-1 (T≤40°C) 230V kW 288 400V kW 500 500V kW 655 690V kW 860 860		AC-1 (≤70°C)	Α	540
Rated operational power AC-1 (T≤40°C) 230V kW 500 500V kW 655 690V kW 860 IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series 75V A 800 110V A 460 220V A 330V A 460V A IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series 75V A 800 110V A 800 220V A 460V A IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series 75V A 800 220V A 700 330V A 460V A IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series 75V A 800 220V A 700 330V A 460V A IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series 75V A 800 110V A 800 220V A 800 330V A 700 460V A IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series		AC-3 (≤440V ≤55°C)	Α	630
		AC-4 (400V)	Α	260
	Rated operational power AC-1 (T≤40°C)			
SOUV KW 655 690V kW 860 EC max current le in DC1 with L/R ≤ 1ms with 1 poles in series		230V	kW	288
EC max current le in DC1 with L/R ≤ 1ms with 1 poles in series 75V		400V	kW	500
IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series 75V A 800 110V A 460 220V A 330V A 460V A IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series 75V A 800 110V A 800 220V A 700 330V A 460V A IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series 75V A 800 220V A 700 330V A 460V A IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series 75V A 800 220V A 800 220V A 800 330V A 700 460V A IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series 75V A 800 220V A 800 330V A 700 460V A IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series		500V	kW	655
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		690V	kW	860
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series			
		75V	Α	800
		110V	Α	460
EC max current le in DC1 with L/R ≤ 1ms with 2 poles in series 75V		220V	Α	
IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series		330V	Α	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		460V	Α	
	IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series			
		75V	Α	800
			Α	800
EC max current le in DC1 with L/R ≤ 1ms with 3 poles in series 75V			Α	700
IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series		330V	Α	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		460V	Α	
	IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series			
330V A 700 460V A IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series 75V A 800 110V A 800 220V A 800 330V A 750				
A60V A				
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series 75V A 800 110V A 800 220V A 800 330V A 750			Α	700
75V A 800 110V A 800 220V A 800 330V A 750		460V	A	
110V A 800 220V A 800 330V A 750	IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series			
220V A 800 330V A 750				
330V A 750				
460V A 700				
		460V	Α	700



FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 800A, AC/DC COIL, 380...415VAC/DC

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	
C 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	Α	800
	220V	Α	800
	330V	Α	650
	460V	Α	
EC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series	+00 V		
to max deficit to in 500-500 with E/TC = 10m3 with 4 poles in series	75V	Α	800
	110V	A	800
	220V	A	800
	330V	A	650
the art time a collection in a compart for AOC (IEO/ENICOO 47.4)	460V	A	700
Short-time allowable current for 10s (IEC/EN60947-1)		Α	5040
Protection fuse	0 (150)	•	4000
	gG (IEC)	Α	1000
	aM (IEC)	Α	630
Making capacity (RMS value)		Α	6300
reaking 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
ightening torque for terminals			
	min	Nm	55
	max	Nm	55
	min	Ibin	40.6
	max	Ibin	40.6
ightening torque for coil terminal			
	min	Nm	1
	max	Nm	1
	min	lbin	0.74
	max	lbin	0.74
Max number of wires simultaneously connectable	Пих	Nr.	2
Conductor section		141.	<u>-</u>
AMC/Kamil			
AWG/Kcmil	may		2v 600 kamil
AWG/Kcmil Power terminal protection according to IEC/EN 60529	max		2x 600 kcmil IP00



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Operating position

Operating position		normal		Vertical plan
		allowable		±30°
Fixing				Screw
Weight			g	2165
Conductor section				
	AWG/kcmil conductor section			
		max		2x 600 kcmil
Operations				
Mechanical life			cycles	5000000
Electrical life			cycles	700000
Safety related data				
Performance level B1	0d according to EN/ISO 13489-1			
		rated load	cycles	700000
		mechanical load	cycles	5000000
Mirror contats accordi	ng to IEC/EN 609474-4-1			yes
EMC compatibility				yes
AC coil operating				
Rated AC voltage at 5	0/60Hz, 60Hz			
		min	V	380
		max	V	415
AC operating voltage				
	of 50/60Hz coil powered at 50Hz			
	pick-up			
		min	%Us	80
		max	%Us	110
	drop-out		0/11	
		min	%Us	20
	- (50/00LL " L - (00LL	max	%Us	60
	of 50/60Hz coil powered at 60Hz			
	pick-up	min	0/116	00
		min	%Us	80
	drop out	max	%Us	110
	drop-out	min	%Us	20
		max	%Us %Us	60
	of 60Hz coil powered at 60Hz	IIIdX	/005	00
	pick-up			
	рюк-ир	min	%Us	80
		max	%Us	110
	drop-out	IIIdA	/003	110
	GIOP OUL	min	%Us	20
		max	%Us	60
AC average coil consu	Imption at 20°C			
	of 50/60Hz coil powered at 50Hz			
		in-rush	VA	400
		holding	VA	18
	of 50/60Hz coil powered at 60Hz	19		-
	2 2 3 2 3 1 E 2 3 1 P 2 1 3 2 3 4 1 0 0 1 E	in-rush	VA	400
		holding	VA	18
Dissipation at holding	≤20°C 50Hz	9	W	18
DC coil operating	>20 C 3UFIZ		VV	10
DO (- ((

DC rated control voltage





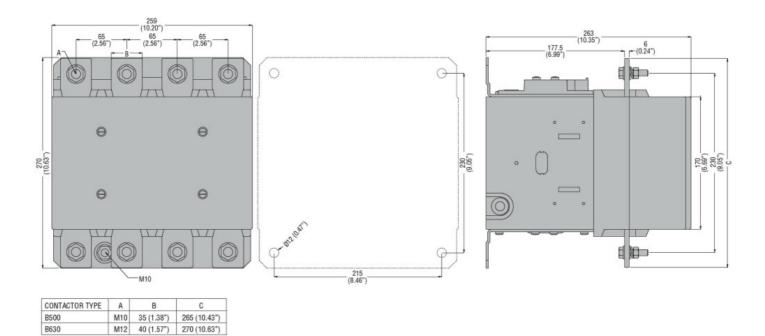
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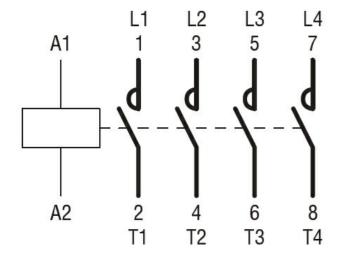
			min	V	380
			max	V	415
DC operating voltage					-
	pick-up				
			min	%Us	80
			max	%Us	110
	drop-out				
	•		min	%Us	20
			max	%Us	60
Average coil consump	tion ≤20°C				
			in-rush	W	400
			holding	W	18
Max cycles frequency					
Mechanical operation				cycles/h	1200
Operating times					
Average time 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			
			min	ms	60
			max	ms	100
UL technical data					
General USE					
	Contactor		• • • • • • • • • • • • • • • • • • • •		000
01 1 1 1 1 1	(000)/		AC current	Α	800
Short-circuit protection					
	Standard fault		Object of the first		4.0
			Short circuit current	kA	18
			Fuse rating	Α	1500
Ambient conditions			Fuse class		L
Ambient conditions Temperature					
remperature	Operating temperature				
	Operating temperature		min	°C	-50
			max	°C	-50 70
	Storage temperature		IIIdX		, 0
	Storage temperature		min	°C	-60
			max	°C	80
Max altitude			IIIax	m	3000
Resistance & Protection	n			111	3000
Pollution degree) 				3
Dimensions					
Difficitions—					

ENERGY AND AUTOMATION

FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 800A, AC/DC COIL, 380...415VAC/DC



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

ETIM 8.0

EC000066 -Power contactor, AC switching