

FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 700A, AC/DC COIL, 440...480VAC/DC



Contact characteristics Number of poles Nr. 4 Rated insulation voltage Ui IEC/EN V 1000 Rated insulation voltage Uimp kV 8 Operational frequency min Hz 25 max Hz 400 IEC Conventional free air thermal current lth A 700 Operational current le AC-1 (≤40°C) A 550 AC-1 (≤55°C) A 550 A 550 AC-1 (≤70°C) A 500 A 520 AC-3 (≤440V ≤55°C) A 520 A 520 AC-4 (400V) A 240 A 240 Rated operational power AC-1 (T≤40°C) 230V kW 252 400V kW 438 500V kW 575 690V kW 755 690V kW 755 IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series 75V A 650 110V A 320 220V A - 330V A - 460V A - 340V A 550 110V A 550 A 550 220V A - 330V A - 460V A - 340V A 550 A 650 110V A
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 A 700 Operational current Ie AC-1 (≤40°C) A 700 AC-1 (≤55°C) A 550 AC-1 (≤70°C) A 500 AC-3 (≤440V ≤55°C) A 520 AC-4 (400V) A 240 Rated operational power AC-1 (T≤40°C) 230V kW 252 400V kW 438 500V kW 252 400V kW 438 500V kW 575 690V kW 755 690V kW 755 Fee 75V A 650
Rated impulse withstand voltage Uimp Rated impulse Acrossing Value of the properties of the properti
Departional frequency min Hz 25 max Hz 400
IEC Conventional free air thermal current Ith A 700 Operational current Ie AC-1 (≤40°C) A 700 AC-1 (≤55°C) A 550 AC-1 (≤70°C) A 500 AC-1 (≤70°C) A 500 AC-3 (≤440V ≤55°C) A 520 AC-4 (400V) A 240 Rated operational power AC-1 (T≤40°C) 230V kW 252 400V kW 438 500V kW 575 600V kW 575 600V kW 755 IEC max current Ie in DC1 with L/R ≤ 1ms with 1 poles in series 75V A 650 110V A 320 220V A - 330V A - 460V A - 750 110V A 550 220V A - 330V A - 460V A - 320 220V A - 330V A - 460V A - 320 220V A - 330V A - 460V A - 320V A 550 220V A 4 550 330V A - 450 330V A - 450 330V A - 460V A - 330V A - 340V A - 34
EC Conventional free air thermal current Ith
Conventional free air thermal current lth
AC-1 (≤40°C)
AC-1 (≤40°C) A 700 AC-1 (≤55°C) A 550 AC-1 (≤70°C) A 500 AC-3 (≤440V ≤55°C) A 520 AC-4 (400V) A 240 Rated operational power AC-1 (T≤40°C) 230V kW 252 400V kW 438 500V kW 575 690V kW 755 IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series 75V A 650 110V A 320 220V A 330V A 460V A IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series 75V A 650 110V A 320 220V A 330V A 460V A 110V A 550 220V A 450 330V A 460V A 550 220V A 450 330V A 460V A 460V A 460V A
AC-1 (≤55°C) A 550 AC-1 (≤70°C) A 500 AC-3 (≤440V ≤55°C) A 520 AC-4 (400V) A 240 Rated operational power AC-1 (T≤40°C) 230V kW 252 400V kW 438 500V kW 575 690V kW 755 IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series 75V A 650 110V A 320 220V A 330V A 460V A IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series 75V A 650 110V A 320 220V A 460V A 460V A 550 220V A 450 330V A 460V A 460V A
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AC-1 (≤70°C) A 500 AC-3 (≤440V ≤55°C) A 520 AC-4 (400V) A 240 Rated operational power AC-1 (T≤40°C) 230V kW 252 400V kW 438 500V kW 575 690V kW 755 IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series 75V A 650 110V A 320 220V A 330V A 460V A IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series 75V A 650 110V A 320 220V A 4 460V A 110V A 550 220V A 450 330V A 460V A 460V A
AC-3 (≤440V ≤55°C) A 520 AC-4 (400V) A 240 Rated operational power AC-1 (T≤40°C) 230V kW 252 400V kW 438 500V kW 575 690V kW 755 IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series 75V A 650 110V A 320 220V A 460V A 1EC max current le in DC1 with L/R ≤ 1ms with 2 poles in series 75V A 650 110V A 320 220V A 460V A 460V A 460V A 550 220V A 450 330V A 4 460V A 460V A 460V A
AC-4 (400V)
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
EC max current le in DC1 with L/R ≤ 1ms with 1 poles in series 75V
IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
IEC max current le in DC1 with L/R \leq 1ms with 2 poles in series 75V A 650 110V A 550 220V A 450 330V A 460V A
IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series 75V A 650 110V A 550 220V A 450 330V A 460V A
75V A 650 110V A 550 220V A 450 330V A 460V A
110V A 550 220V A 450 330V A 460V A
220V A 450 330V A 460V A
330V A 460V A
460V A
IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series
75V A 650
110V A 600
220V A 600
330V A 450
460V A
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series
75V A 650
110V A 600
220V A 600
330V A 600
460V A 450
700V A 700



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EC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series			
	75V	Α	550
	110V	Α	320
	220V	Α	
	330V	Α	
	460V	Α	
EC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series			
·	75V	Α	550
	110V	Α	550
	220V	Α	450
	330V	Α	
	460V	Α	
EC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series	400 V		
	75V	Α	550
	110V	A	
			550
	220V	A	550
	330V	A	450
F0	460V	Α	
EC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series		_	
	75V	Α	550
	110V	Α	550
	220V	Α	550
	330V	Α	450
	460V	Α	450
Short-time allowable current for 10s (IEC/EN60947-1)		Α	4050
Protection fuse			
	gG (IEC)	Α	800
	aM (IEC)	Α	500
Making capacity (RMS value)		Α	5000
Breaking capacity at voltage			
	440V	Α	5000
	500V	Α	4500
	690V	Α	4000
Resistance per pole (average value)		mΩ	0.14
Power dissipation per pole (average value)			
ower dissipation per pere (average value)	Ith	W	68.6
	AC-3	W	35
Fightening torque for terminals	7.0 0	• • • • • • • • • • • • • • • • • • • •	
nghiening torque for terminals	min	Nlm	25
	min	Nm Nm	35 35
	max	Nm	
	min	lbin	25.8
California a farmo farmo il farmo (se l	max	lbin	25.8
Fightening torque for coil terminal			
	min	Nm	1
			1
	max	Nm	
		lbin	0.74
	max	lbin Ibin	0.74 0.74
	max min	lbin	0.74
Max number of wires simultaneously connectable	max min	lbin Ibin	0.74 0.74
Max number of wires simultaneously connectable	max min	lbin Ibin	0.74 0.74
Max number of wires simultaneously connectable Conductor section	max min	lbin Ibin	0.74 0.74



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Operating position

Operating position		normal		Vertical plan
		allowable		±30°
Fixing				Screw
Weight			g	2163
Conductor section				
AWG/kcmil cor	nductor section			
		max		2x 500 kcmil
Operations				
Mechanical life			cycles	5000000
Electrical life			cycles	700000
Safety related data				
Performance level B10d according to E	EN/ISO 13489-1		_	
		rated load	cycles	700000
		mechanical load	cycles	5000000
Mirror contats according to IEC/EN 609)474-4-1			yes
EMC compatibility				yes
AC coil operating				
Rated AC voltage at 50/60Hz, 60Hz				4.40
		min	V	440
		max	V	415
AC operating voltage				
of 50/60Hz coil	powered at 50Hz			
	pick-up		0/11-	00
		min	%Us	80
	drop out	max	%Us	110
	drop-out	min	%Us	20
		max	%Us	60
of 50/60Hz coil	powered at 60Hz	Παλ	/003	00
01 30/001 12 0011	pick-up			
	ριοκ αρ	min	%Us	80
		max	%Us	110
	drop-out	max	7000	110
	drop out	min	%Us	20
		max	%Us	60
of 60Hz coil po	wered at 60Hz			
3. 33. <u>12</u> 3311 po	pick-up			
	1 · */F	min	%Us	80
		max	%Us	110
	drop-out			
	1	min	%Us	20
		max	%Us	60
AC average coil consumption at 20°C				
	powered at 50Hz			
	-	in-rush	VA	400
		holding	VA	18
of 50/60Hz coil	powered at 60Hz	Ŭ		
		in-rush	VA	400
		holding	VA	18
Dissipation at holding ≤20°C 50Hz			W	18
DC coil operating				

DC rated control voltage





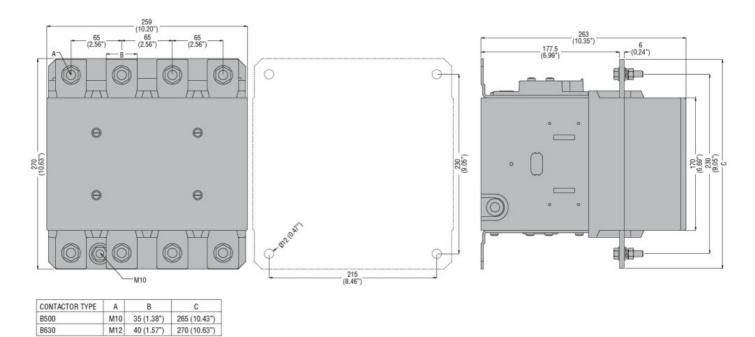
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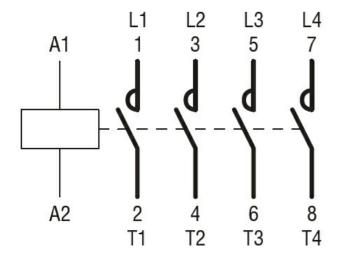
			min	V	440
			max	V	415
DC operating voltage				<u> </u>	
- c speramig remage	pick-up				
			min	%Us	80
			max	%Us	110
	drop-out				
			min	%Us	20
			max	%Us	60
Average coil consump	tion ≤20°C				
			in-rush	W	400
			holding	W	18
Max cycles frequency				//	4000
Mechanical operation				cycles/h	1200
Operating times Average time for Us co	ontrol				
Average unite for US CC	in AC				
	шло	Closing NO			
		Closing NO	min	ms	110
			max	ms	180
		Opening NO			
		- p	min	ms	60
			max	ms	100
	in DC				
		Closing NO			
			min	ms	110
			max	ms	180
		Opening NO			
			min	ms	60
III. ta abuda al data			max	ms	100
UL technical data General USE					
General USE	Contactor				
	Contactor		AC current	Α	700
Short-circuit protection	fuse 600V		AO cuitoti		700
Chort diredit protection	Standard fault				
	Januara radit		Short circuit current	kA	18
			Fuse rating	Α	1200
			Fuse class		L
Ambient conditions					
Temperature					
	Operating temperature				
			min	°C	-50
			max	°C	70
	Storage temperature				
			min	°C	-60
B. B. 1016 - 1			max	°C	80
Max altitude				m	3000
Resistance & Protection	on _				2
Pollution degree					3
Dimensions					

ENERGY AND AUTOMATION

FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 700A, AC/DC COIL, 440...480VAC/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