

### FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 1000A, AC/DC COIL, 110...125VAC/DC



Product designation			Power contactor
Product type designation			B6301000
Contact characteristics			
Number of poles		Nr.	4
Rated insulation voltage Ui IEC/EN		V	1000
Rated impulse withstand voltage Uimp		kV	8
Operational frequency		100	
Operational frequency	min	Hz	25
	max	Hz	400
IEC Conventional free air thermal current Ith	Παλ	A	1000
Operational current le			1000
Operational current le	AC 1 (<10°C)	۸	1000
	AC-1 (≤40°C)	A	1000
	AC-1 (≤55°C)	A	850
	AC-1 (≤70°C)	A	700
D. ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) (	AC-4 (400V)	Α	260
Rated operational power AC-1 (T≤40°C)			
	230V	kW	350
	400V	kW	600
	500V	kW	750
	690V	kW	1000
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		<u> </u>	
	75V	Α	800
	110V	A	800
	220V	A	800
	330V	A	750
	460V	A	700
	400 /		100





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	75V	Α	800
	110V	Α	460
	220V	Α	
	330V	Α	
	460V	Α	
EC 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			
	75V	Α	800
	110V	A	800
	220V	Α	800
	330V	Α	650
	460V	Α	700
Short-time allowable current for 10s (IEC/EN60947-1)		A	5600
Protection fuse			
Totolon Tubb	gG (IEC)	Α	1000
Making capacity (RMS value)	9 (1-1)	Α	6300
Breaking capacity at voltage			
and the second s	440V	Α	6300
	500V	Α	5600
	690V	Α	5000
Resistance per pole (average value)		mΩ	0.14
Power dissipation per pole (average value)			
constraint por pore (anotago value)	Ith	W	140
	AC-3	W	56
Fightening torque for terminals	7.00		
righterming torque for terminale	min	Nm	55
	max	Nm	55
	min	lbin	40.6
	max	lbin	40.6
Fightening torque for coil terminal	тах		
	min	Nm	1
	max	Nm	1
	min	lbin	0.74
	max	Ibin	0.74
Max number of wires simultaneously connectable	Παλ	Nr.	2
Conductor section		1 11.	
AWG/Kcmil			
AWG/Rullii	may		2x 900 kcmil
Power terminal protection according to IEC/EN 60529	max		IP00
Mechanical features			IF UU
Operating position	normal		Vortical plan
	normal		Vertical plan





## FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 1000A, AC/DC COIL, 110...125VAC/DC

Screw   Scre		allowable		±30°
Conductor section	Fixing			Screw
Name	Weight		g	2560
Departations         South Control Rechanical 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         50000000         Minimizated Load cycles         700000         Minimizated Load cycles         Minimizated Load cycles         Minimizated Load cycles         Minimizated Load cycles         700000         Minimizated Load cycles         Minimizated Load cycles         80         Minimizated Load cycles         Minimizated Load cycles         80         Minimizated Load cycles         Minimizated Load cycles <td< td=""><td>Conductor section</td><td></td><td></td><td></td></td<>	Conductor section			
Operations           Mechanical life         cycles         5000000           Electrical life         cycles         700000           Safety related data           Performance level B10d according to EN/ISO 13489-1         rated load relation of cycles         700000           Mirror contats according to IEC/EN 609474-4-1         yes         98           EMC compatibility         yes         AC coil corrating           Rated AC voltage at 50/60Hz, 60Hz         min         V         110           AC operating voltage         min         V         125           AC operating voltage         min         %Us         80           of 50/60Hz coil powered at 50Hz pick-up         min         %Us         80           max         %Us         110         40	AWG/kcmil conductor section			
Mechanical life         cycles         5000000           Safety related data           Performance level B10d according to EN/ISO 13489-1         rated load rate of the property of th		max		2x 900 kcmil
Electrical life				
Performance level B10d according to EN/ISO 13489-1   rated load   cycles   700000   mechanical load   cycles   5000000   mechanical load   cycles   cycles   mechanical load   cycles   cyc			cycles	
Performance level B10d according to EN/ISO 13489-1         rated load cycles 5000000         700000 cycles 5000000           Mirror contats according to IEC/EN 609474-4-1         yes         yes           EMC compatibility         yes         yes           AC coil operating         min V         110           Rated AC voltage at 50/60Hz, 60Hz         min V         125           AC operating voltage         min V         125           AC operating voltage         min WUS         80           AC operating voltage         min WUS         80           Max WUS         110         40           drop-out         min WUS         80           max WUS         10         40           drop-out         min WUS         80           max WUS         10         40           drop-out         min WUS         80           max WUS         10         40			cycles	700000
Mirror contats according to IEC/EN 609474-4-1   yes   yes   S000000	•			
Mirror contats according to IEC/EN 609474-4-1   yes	Performance level B10d according to EN/ISO 13489-1			
Mirror contats according to IEC/EN 609474-4-1   yes				
EMC compatibility  AC coll operating  Rated AC voltage at 50/60Hz, 60Hz  AC operating voltage  of 50/60Hz coil powered at 50Hz pick-up  drop-out  drop-out  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 20 max %Us 110  drop-out  min %Us 20 max %Us 60  of 60Hz coil powered at 60Hz pick-up pick-up  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 pick-up in-rush VA 400 holding VA 18  Dissipation at holding ≤20°C 50Hz  C coil operating  DC rated control voltage		mechanical load	cycles	5000000
AC coil operating         Rated AC voltage at 50/60Hz, 60Hz       min voltage       V voltage         AC operating voltage       of 50/60Hz coil powered at 50Hz pick-up       min wolds with wolds wi				yes
Rated AC voltage at 50/60Hz, 60Hz         AC operating voltage       of 50/60Hz coil powered at 50Hz pick-up       min win wills wills wills wills will and wi				yes
AC operating voltage  of 50/60Hz coil powered at 50Hz pick-up  min wlus 80 max wlus 1110 drop-out min wlus 20 max wlus 60  of 50/60Hz coil powered at 60Hz pick-up  min wlus 80 max wlus 60  of 50/60Hz coil powered at 60Hz pick-up  min wlus 80 max wlus 1110  drop-out min wlus 20 max wlus 1110  drop-out min wlus 80 max wlus 1110  min wlus 80 max wlus 1110  drop-out min wlus 80 max wlus 1110				
AC operating voltage  of 50/60Hz coil powered at 50Hz pick-up  min wus 80 max wus 110  drop-out min wus 20 max wus 60  of 50/60Hz coil powered at 60Hz pick-up  min wus 80 max wus 60  of 50/60Hz coil powered at 60Hz pick-up  min wus 80 max wus 110  drop-out min wus 20 max wus 60  of 60Hz coil powered at 60Hz pick-up  of 60Hz coil powered at 60Hz pick-up  min wus 20 max wus 60  of 60Hz coil powered at 60Hz pick-up  min wus 80 max wus 60  of 50/60Hz coil powered at 60Hz pick-up  min wus 80 max wus 60  AC average coil consumption at 20°C of 50/60Hz coil powered at 50Hz  in-rush vus 400 holding vus 18  of 50/60Hz coil powered at 60Hz in-rush vus 400 holding vus 18  Dissipation at holding ≤20°C 50Hz  W 18  DC coil operating  CC rated control voltage	Rated AC voltage at 50/60Hz, 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 60  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 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  V 18  C coil operating  DC rated control voltage  min V 110				
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   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   50     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     DC coil operating   DC rated control voltage   min   V   110     Trush		max	V	125
Pick-up   min   %Us   80   max   %Us   110   Max   min   %Us   20   max   %Us   60   Max   Mus   60   Mus   Mus   Mus   60   Max   Mus   60   Mus   Mus   Mus   60   Mus				
Min   Mus   80   110	•			
Max   Mus   110   Mus   20   Mus   20   Mus   60   Mus   60   Mus   60   Mus	pick-up	_		
drop-out   min   %Us   20   max   %Us   60				
min		max	%Us	110
Max   Mus   60   60	drop-out		0/11	0.0
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   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   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   V   110     To the control voltage   min   N   N   110     To the control voltage   min   N   N   N   N     To the control voltage   min   N   N   N   N     To the control voltage   min   N   N   N   N     To the control voltage   min   N   N   N   N     To the control voltage   min   N   N   N   N     To the control voltage   min   N   N   N   N     To the control voltage   min   N   N   N   N     To the control voltage   min   N   N   N   N     To the control voltage   m				
Pick-up	( 50/00H	max	%Us	60
Min   Mus   80   max   Mus   110   Mus   110   Mus   Mus   110   Mus   Mus   Mus   110   Mus	·			
Max   Mus   110   Min   Mus   20   Max   Mus   60   Mus   60   Mus   Mus   60   Mus   Mus   60   Mus   Mus   Mus   60   Mus	ріск-ир	min	0/116	0.0
drop-out   min   %Us   20   max   %Us   60				
min max       %Us 20 max       20 max       60         of 60Hz coil powered at 60Hz pick-up         min min max       %Us 80 max       %Us 110 max       110 max       %Us 20 max       110 max       %Us 20 max       60 max       %Us 60       20 max       60 max       %Us 60       60 max       Mus 20	drap out	max	%US	110
max   %Us   60	diop-out	min	%l le	20
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  DC rated control voltage  min V 110				
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  DC rated control voltage  min V 110	of 60Hz coil powered at 60Hz	max	7003	- 00
min   %Us   80   max   %Us   110	·			
Max   %Us   110	ριοκ αφ	min	%l ls	80
Min   WUs   20   max   WUs   60				
min max       %Us be colored with the colored and the	drop-out	max	,,,,,,	
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 V 110	3.3p out	min	%Us	20
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  DC coil operating  DC rated control voltage  min V 110				
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  DC coil operating  DC rated control voltage  min V 110	AC average coil consumption at 20°C	an		
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   V   110     vA   vA   vA   vA     vA   vA   vA				
holding	ε ε ε ε ε ε ε ε ε ε ε ε ε ε ε ε ε ε ε	in-rush	VA	400
of 50/60Hz coil powered at 60Hz  in-rush VA 400 holding VA 18  Dissipation at holding ≤20°C 50Hz  DC coil operating  DC rated control voltage  min V 110				
in-rush VA 400 holding VA 18  Dissipation at holding ≤20°C 50Hz W 18  DC coil operating  DC rated control voltage  min V 110	of 50/60Hz coil powered at 60Hz			
holding VA 18   Dissipation at holding ≤20°C 50Hz W 18   DC coil operating   DC rated control voltage min V 110		in-rush	VA	400
Dissipation at holding ≤20°C 50Hz W 18  DC coil operating  DC rated control voltage  min V 110				
DC coil operating  DC rated control voltage  min V 110	Dissipation at holding ≤20°C 50Hz			
DC rated control voltage min V 110				
min V 110				
	, and the second	min	V	110



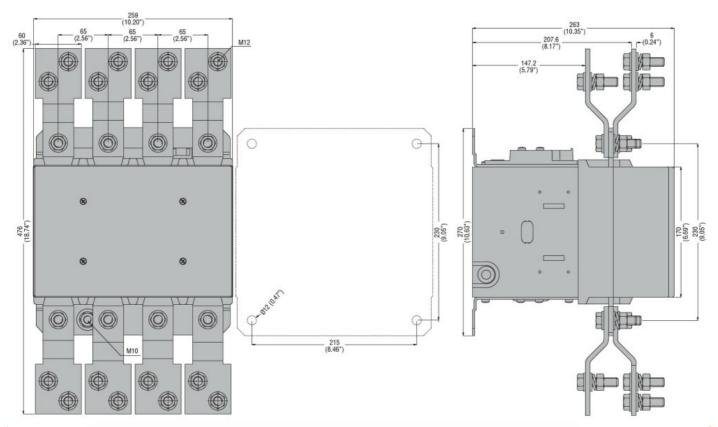


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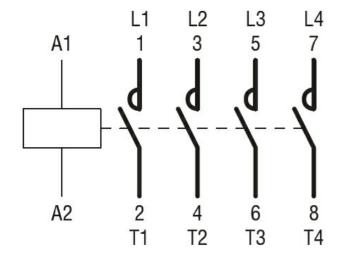
DC operating voltage					
	pick-up				
			min	%Us	80
			max	%Us	110
	drop-out				
			min	%Us	20
			max	%Us	60
Average coil consump	tion ≤20°C				
			in-rush	W	400
			holding	W	18
Max cycles frequency					
Mechanical operation				cycles/h	1200
Operating times					
Average time for Us co	ontrol				
	in AC				
		Closing NO			
		-	min	ms	110
			max	ms	180
		Opening NO			
		3 -	min	ms	60
			max	ms	100
	in DC				
	= 0	Closing NO			
		5.55g 5	min	ms	110
			max	ms	180
		Opening NO	max	1110	100
		oponing ito	min	ms	60
			max	ms	100
UL technical data			mox	1110	100
General USE					
Ochoral OOL	Contactor				
	Contactor		AC current	Α	1000
Short-circuit protection	fuso 600V		AO CUITCH		1000
Short-circuit protection					
	Standard fault		Short circuit current	kA	18
				A	1500
			Fuse rating Fuse class	А	
Ambient conditions			ruse ciass		L
Ambient conditions					
Temperature	On another towns and				
	Operating temperature			۰.	50
			min	°C	-50 -70
	<del></del>		max	°C	70
	Storage temperature				
			min	°C	-60
			max	°C	80
Max altitude				m	3000
Resistance & Protection	on				
Pollution degree					3
Dimensions					

**ENERGY AND AUTOMATION** 

### FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 1000A, AC/DC COIL, 110...125VAC/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



### 11B6301000400110

FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 1000A, AC/DC COIL, 110...125VAC/DC

ETIM 8.0

EC000066 -Power contactor, AC switching