



Product designation Power contactor B6301000 Product type designation Contact characteristics Nr. 3 Number of poles Rated insulation voltage Ui IEC/EN ٧ 1000 k۷ Rated impulse withstand voltage Uimp 8 Operational frequency Н 25 min Hz 400 max IEC Conventional free air thermal current Ith 1000 Α Operational current le AC-1 (≤40°C) Α 1000 AC-1 (≤55°C) Α 850 AC-1 (≤70°C) Α 700 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 800 Α 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 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 800 Α 330V 700 Α 460V Α IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series 75V Α 800 110V Α 800 220V 800 Α 750 330V Α 460V 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	5600
Protection fuse			
	gG (IEC)	Α	1000
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	140
	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 900 kcmil
Power terminal protection according to IEC/EN 60529			IP00
Mechanical features			
Operating position			
	normal		Vertical plan





Veight g 2140 Conductor section AWG/kcmil conductor section max 2x 900 kcmil		allowable		±30°
AWG/kcmil conductor section max 2x 900 kcmil	Fixing			Screw
AWG/kcmil conductor section max 2x 900 kcmil	Veight		g	2140
Part	Conductor section			
Poperations Cycles 5000000	AWG/kcmil conductor section			
Identical life		max		2x 900 kcmil
Ilectrical life	Operations			
efety related data erformance level B10d according to EN/ISO 13489-1 rated load cycles 5000000 filiror contats according to IEC/EN 609474-4-1 MC compatibility yes Coil operating ated AC voltage at 50/60Hz, 60Hz of 50/60Hz coil powered at 50Hz pick-up of 50/60Hz coil powered at 60Hz pick-up drop-out drop-out min %Us 80 max %Us 110 drop-out min %Us 80 max %Us 110 drop-out			-	
rated load Cycles 700000 700000 700000 700000 700000 700000 700000 700000 700000 700000 7000000 7000000 70000000 700000000			cycles	700000
rated load cycles 700000 50000000 50000000000000000	•			
tirror contats according to IEC/EN 609474-4-1 MC compatibility C coil operating tated AC voltage at 50/60Hz, 60Hz are of 50/60Hz coil powered at 50Hz pick-up of 50/60Hz coil powered at 60Hz pick-up are of 50/60Hz coil powered at 60Hz pick-up of 50/60Hz coil powered at 60Hz pick-up are of 50/60Hz coil powered at 60Hz are of 50/60Hz coil powered at 50Hz are of 50/60Hz are of 50	Performance level B10d according to EN/ISO 13489-1			
## A Substitution of Substitu			-	
MC coil operating dated AC voltage at 50/60Hz, 60Hz min wax V v v v v v v v v v v v v v v v v v v v	M	mechanical load	cycles	
Coll operating Col				•
Action of Soliton Sol				yes
Min V 110 max V 125				
C operating voltage of 50/60Hz coil powered at 50Hz pick-up min wus wus 110 drop-out min wus 20 max wus 60 of 50/60Hz coil powered at 60Hz pick-up min wus 80 max wus 110 drop-out min wus 80 max wus 110 drop-out min wus 80 max wus 110 drop-out min wus 20 max wus 110 drop-out min wus 80 max wus 110 drop-out min wus 80 max wus 60 of 60Hz coil powered at 60Hz pick-up min wus 80 max wus 110 drop-out min wus 40 400 holding vus 18 of 50/60Hz coil powered at 60Hz in-rush vus	Taleu AC Vullage at 50/0002, 0002	min	\/	110
C 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 110 drop-out min %US 110 drop-out min %US 80 max %US 10 drop-out min %US 80 max %US 110 drop-out min %US 80 max %US 110 drop-out max %US 110 drop-out min %US 90 max %US 110 drop-out min %US 90 max %US 110 drop-out max %US 110 drop-ou				
of 50/60Hz coil powered at 50Hz pick-up min	AC operating voltage	IIIdX	V	120
Pick-up min %Us 80 max %Us 110 Min %Us 20 max %Us 60 Min %Us 60 Min Min %Us 60 Min Min %Us 60 Min				
Min Mus 80 max Mus 110 Mus	•			
Max Mus 110 Min Mus 20 Min Mus 20 Min Mus 60 Min Mus 80 Min Mus 110 Min Mus 110 Min Mus 110 Min Mus 110 Min Mus 60 Min Mus 110 Min Mus	pion up	min	%Us	80
drop-out min %Us 20 max %Us 60				
min	drop-out		,,,,,	
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 20 max %Us 60 C average coil consumption at 20°C of 50/60Hz coil powered at 50Hz in-rush VA 400 holding VA 18 in-rush VA 18 in-rush		min	%Us	20
Pick-up min %Us 80 max %Us 110				
min %Us 80 max %Us 110	of 50/60Hz coil powered at 60Hz			
drop-out min wUs 20 max wUs 60	pick-up			
drop-out min %Us 20 max %Us 60		min	%Us	80
min %Us 20 max %Us 60		max	%Us	110
max %Us 60 of 60Hz coil powered at 60Hz pick-up min %Us 80 max %Us 110 min max %Us 110 min max %Us 20 max %Us 60 C 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 in-rush VA	drop-out			
of 60Hz coil powered at 60Hz pick-up min %Us 80 max %Us 110 drop-out min %Us 20 max %Us 60 C 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 of 50/60Hz coil powered at 60Hz in-rush VA 400 holding VA 18 of 50/60Hz coil powered at 60Hz in-rush VA 400 holding VA 18 of 50/60Hz coil powered at 60Hz in-rush VA 400 holding VA 18 of 50/60Hz coil powered at 60Hz in-rush VA 400 holding VA 18 of 50/60Hz coil powered at 60Hz in-rush VA 400 holding VA 18 of 50/60Hz coil powered at 60Hz in-rush VA 400 holding VA 18 of 50/60Hz coil powered at 60Hz in-rush VA 400 holding VA 18 of 50/60Hz coil powered at 60Hz in-rush VA 400 holding VA 18 of 50/60Hz coil powered at 60Hz in-rush VA 400 holding VA 18 of 50/60Hz coil powered at 60Hz		min		
pick-up min %Us 80 max %Us 110 drop-out min %Us 20 max %Us 60 C 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 vissipation at holding ≤20°C 50Hz C rated control voltage min V 110		max	%Us	60
min	•			
Max %Us 110	pick-up			
Min MUs 20 max MUs 60				
min %Us 20 max %Us 60	I	max	%Us	110
Max %Us 60	drop-out	*.	0/11-	20
C 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 C 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 in-rush VA 400 holding VA 18 insipation at holding ≤20°C 50Hz VC coil operating OC rated control voltage min V 110	AC average coil consumption at 20°C	max	-⁄₀US	ου
in-rush VA 400 holding VA 18 of 50/60Hz coil powered at 60Hz in-rush VA 400 holding VA 18 insipation at holding VA 18 insipatio				
holding	oi 50/60Hz coii powered at 50Hz	in_ruch	\/Δ	400
of 50/60Hz coil powered at 60Hz in-rush VA 400 holding VA 18 vissipation at holding ≤20°C 50Hz C coil operating C 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 nowered at 60Hz	noiding	٧٨	10
holding VA 18 Dissipation at holding ≤20°C 50Hz C coil operating C rated control voltage min V 110	01 30/001 12 coll powered at 00112	in-rush	\/Δ	400
vissipation at holding ≤20°C 50Hz W 18 C coil operating C rated control voltage min V 110				
C coil operating C rated control voltage min V 110	Dissipation at holding ≤20°C 50Hz	noiding		
C rated control voltage min V 110	•		**	
min V 110	· · · · · · · · · · · · · · · · · · ·			
	- C. S. C. S. C.	min	V	110
THAX V 120				
		παλ	v	

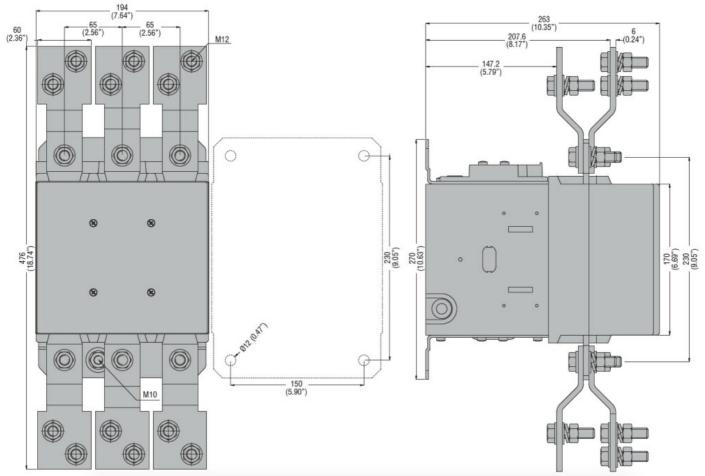




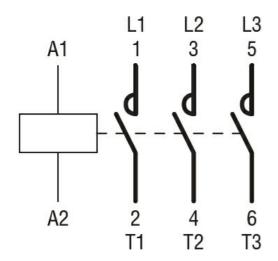
DC operating voltage					
	pick-up				
	•		min	%Us	80
			max	%Us	110
	drop-out				
			min	%Us	20
			max	%Us	60
Average coil consump	tion <20°C				
7 Wordgo con concamp	11011 =20 0		in-rush	W	400
			holding	W	18
Max cycles frequency			Holding	VV	10
Mechanical operation				cycles/h	1200
				Cycles/II	1200
Operating times	ontrol				
Average time for Us co					
	in AC	Observe NO			
		Closing NO			440
			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				
			AC current	Α	1000
Short-circuit protection	fuse, 600V				
·	Standard fault				
			Short circuit current	kA	18
			Fuse rating	Α	1500
			Fuse class		L
Ambient conditions					
Temperature					
	Operating temperature				
	1 3		min	°C	-50
			max	°C	70
	Storage temperature		max		. •
	Clorage temperature		min	°C	-60
			max	°C	80
Max altitude			IIIdX		3000
Resistance & Protection	n			m	3000
	רות				2
Pollution degree Dimensions					3
Dimensions					

ENERGY AND AUTOMATION

THREE-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



11B630100000110

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

cULus		
FAC		

ETIM classification

ETIM 8.0

EC000066 -Power contactor, AC switching