11B180400110



FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 275A, AC/DC COIL, 110... 125VAC/DC



Product designation		Power contactor
Product type designation		B180
Contact characteristics		
Number of poles	nr.	4
Rated insulation voltage Ui	V	1000
Rated impulse withstand voltage Uimp	kV	8
Operating frequency		
Operational frequency min	Hz	25
Operational frequency max	Hz	400
Conventional free air thermal current Ith	A	275
Operating current		
Operational current AC1 (≤40°C)	A	275
Operational current AC3 (≤440V ≤55°C)	A	185
Operational current AC4 (400V)	A	65
Rated operational power AC1 (T≤40°C)		
230V	kW	95
400V	kW	160
500V	kW	213
690V	kW	298
Rated operational power AC3 (T≤55°C)		
230V	kW	57
400V	kW	100
415V	kW	708
440V	kW	115
500V	kW	123
690V	kW	144
1000V	kW	103
Short-time allowable current for 10s (IEC/EN60947-1)	Α	1500
Protection fuse		
gG (IEC)	А	315
aM (IEC)	А	200
Making capacity (RMS value)	А	1850
Breaking capacity at voltage		
Breaking capacity 440V	А	1850
Breaking capacity 500V	А	1600
Breaking capacity 690V	А	1480
Resistance per pole (average value)	mΩ	0.3
Power dissipation per pole (average value)		
Power dissipation pole (average value) Ith	W	20.3
AC3	W	9.7
Tightening torque for terminals		
min	Nm	18
max	Nm	18
min	lbft	13.3
		13.3



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125VAC/DC

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	simultaneously connectable		nr.	2
Conductor section				
	AWG	201		300 kcmil
Power terminal protect	tion according to IEC/EN 60529	max		IP00
Auxiliary contact chara				IF 00
Operational current AC			А	275
Operating current DC1				
1 0		110V	А	Screw
Ambient conditions				
Temperature				
	Operating temperature			
		min	°C	-50
		max	°C	70
	Storage temperature			
		min	°C	-60
		max	°C	80
Max altitude			m	3000
Operating position		normal		
		normal allowable		Vertical plan ±30°
Mounting		allowable		Screw
Weight			g	6.34
Operations			9	
Mechanical life			Cycles	10000000
Mechanical life Electrical life			Cycles Cycles	1000000 1000000
			Cycles Cycles	
Electrical life Safety related data	0d according to EN/ISO 13489-1			
Electrical life Safety related data	0d according to EN/ISO 13489-1	rated load		
Electrical life Safety related data Performance level B10		rated load mechanical load	Cycles	1000000
Electrical life Safety related data Performance level B10 Mirror contats accordir	0d according to EN/ISO 13489-1 ng to IEC/EN 609474-4-1		Cycles Cicli	1000000
Electrical life Safety related data Performance level B10 Mirror contats accordir EMC compatibility			Cycles Cicli	1000000 1000000 10000000
Electrical life Safety related data Performance level B10 Mirror contats accordir EMC compatibility AC coil operating			Cycles Cicli	1000000 1000000 10000000 yes
Electrical life Safety related data Performance level B10 Mirror contats accordir EMC compatibility AC coil operating	ng to IEC/EN 609474-4-1		Cycles Cicli	1000000 1000000 10000000 yes
Electrical life Safety related data Performance level B10	ng to IEC/EN 609474-4-1 of 50/60Hz coil powered at 50Hz		Cycles Cicli	1000000 1000000 10000000 yes
Electrical life Safety related data Performance level B10 Mirror contats accordir EMC compatibility AC coil operating	ng to IEC/EN 609474-4-1	mechanical load	Cycles Cicli Cicli	1000000 1000000 10000000 yes yes
Electrical life Safety related data Performance level B10 Mirror contats accordir EMC compatibility AC coil operating	ng to IEC/EN 609474-4-1 of 50/60Hz coil powered at 50Hz	mechanical load	Cycles Cicli Cicli %Us	1000000 1000000 yes yes 0.8
Electrical life Safety related data Performance level B10 Mirror contats accordir EMC compatibility AC coil operating	ng to IEC/EN 609474-4-1 of 50/60Hz coil powered at 50Hz pick-up	mechanical load	Cycles Cicli Cicli	1000000 1000000 10000000 yes yes
Electrical life Safety related data Performance level B10 Mirror contats accordir EMC compatibility AC coil operating	ng to IEC/EN 609474-4-1 of 50/60Hz coil powered at 50Hz	mechanical load min max	Cycles Cicli Cicli %Us %Us	1000000 1000000 yes yes 0.8 1.1
Electrical life Safety related data Performance level B10 Mirror contats accordir EMC compatibility AC coil operating	ng to IEC/EN 609474-4-1 of 50/60Hz coil powered at 50Hz pick-up	mechanical load	Cycles Cicli Cicli %Us	1000000 1000000 yes yes 0.8
Electrical life Safety related data Performance level B10 Mirror contats accordir EMC compatibility AC coil operating	ng to IEC/EN 609474-4-1 of 50/60Hz coil powered at 50Hz pick-up	mechanical load min max min	Cycles Cicli Cicli %Us %Us %Us	1000000 1000000 yes yes 0.8 1.1 0.2
Electrical life Safety related data Performance level B10 Mirror contats accordir EMC compatibility AC coil operating	ng to IEC/EN 609474-4-1 of 50/60Hz coil powered at 50Hz pick-up drop-out	mechanical load min max min	Cycles Cicli Cicli %Us %Us %Us	1000000 1000000 yes yes 0.8 1.1 0.2
Electrical life Safety related data Performance level B10 Mirror contats accordir EMC compatibility AC coil operating	ng to IEC/EN 609474-4-1 of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz	mechanical load min max min	Cycles Cicli Cicli Sicli Sicli Sicli Cicli Cicli Cicli Cicli Sicli	1000000 1000000 yes yes 0.8 1.1 0.2 0.6
Electrical life Safety related data Performance level B10 Mirror contats accordir EMC compatibility AC coil operating	ng to IEC/EN 609474-4-1 of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up	mechanical load min max min max	Cycles Cicli Cicli %Us %Us %Us %Us	1000000 1000000 yes yes 0.8 1.1 0.2 0.6
Electrical life Safety related data Performance level B10 Mirror contats accordir EMC compatibility AC coil operating	ng to IEC/EN 609474-4-1 of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz	mechanical load min max min max min max	Cycles Cicli Cicli %Us %Us %Us %Us %Us %Us	1000000 1000000 yes yes 0.8 1.1 0.2 0.6 0.8 1.1
Electrical life Safety related data Performance level B10 Mirror contats accordir EMC compatibility AC coil operating	ng to IEC/EN 609474-4-1 of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up	mechanical load min max min max min max min max	Cycles Cicli Cicli %Us %Us %Us %Us %Us %Us	1000000 1000000 yes yes 0.8 1.1 0.2 0.6 0.8 1.1 0.2 0.6
Electrical life Safety related data Performance level B10 Mirror contats accordir EMC compatibility AC coil operating AC operating voltage	ng to IEC/EN 609474-4-1 of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up	mechanical load min max min max min max	Cycles Cicli Cicli %Us %Us %Us %Us %Us %Us	1000000 1000000 yes yes 0.8 1.1 0.2 0.6 0.8 1.1
Electrical life Safety related data Performance level B10 Mirror contats accordir EMC compatibility AC coil operating AC operating voltage	ng to IEC/EN 609474-4-1 of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up drop-out	mechanical load min max min max min max min max	Cycles Cicli Cicli %Us %Us %Us %Us %Us %Us	1000000 1000000 yes yes 0.8 1.1 0.2 0.6 0.8 1.1 0.2 0.6
Electrical life Safety related data Performance level B10 Mirror contats accordir EMC compatibility AC coil operating AC operating voltage	ng to IEC/EN 609474-4-1 of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up	mechanical load min max min max min max min max min max	Cycles Cicli Cicli %Us %Us %Us %Us %Us %Us %Us %Us	1000000 1000000 yes yes 0.8 1.1 0.2 0.6 0.8 1.1 0.2 0.6
Electrical life Safety related data Performance level B10 Mirror contats accordir EMC compatibility AC coil operating	ng to IEC/EN 609474-4-1 of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up drop-out	mechanical load min max min max min max min max	Cycles Cicli Cicli %Us %Us %Us %Us %Us %Us	1000000 1000000 yes yes 0.8 1.1 0.2 0.6 0.8 1.1 0.2 0.6



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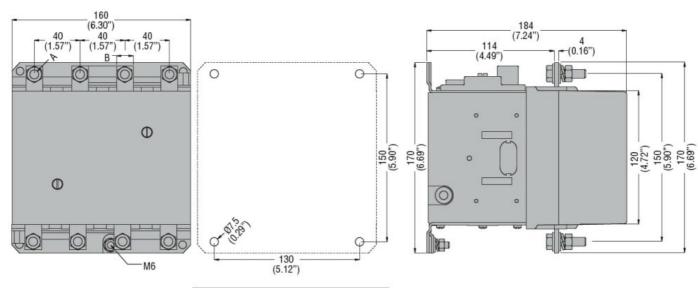
			in-rush	VA	300
			holding	VA	10
Dissipation at holding	≤20°C 50Hz			W	10
DC coil operating					
DC rated control voltage	ge				
			min	V	24
DC operating voltage					
	pick-up				
			min	%Us	0.8
			max	%Us	1.10
	drop-out			0/11-	0.0
			min	%Us	0.2
Average cell concurti			max	%Us	0.60
Average coil consuption	JII ≥20 C		-ام. س. ما:	۱۸/	200
			in-rush	W W	300
Max cycles frequency			holding	VV	10
				Cycles/h	2400
Mechanical operations Operating times				Cycles/r	ı ∠ 4 00
Average time for Us co	ontrol				
Average time for US C	in AC				
		Closing NO			
			min	ms	60
			max	ms	100
		Opening NO	max	1115	100
		oponing ito	min	ms	25
			max	ms	60
	in DC				
		Closing NO			
		5	min	ms	60
			max	ms	100
		Opening NO			
			min	ms	25
			max	ms	60
UL technical data					
Full-load current (FLA)	for three-phase A	C motor			
			at 480V	А	180
			at 600V	А	144
Yielded mechanical pe	erformance				
	for three-phase	AC motor			
			at 200/208V	hp	60
			at 220/230V	hp	75
			at 460/480V	hp	150
			at 575/600V	hp	150
General USE					
	Contactor				
			AC current	А	275
Other features					
Pollution degree					3
Dimensions					



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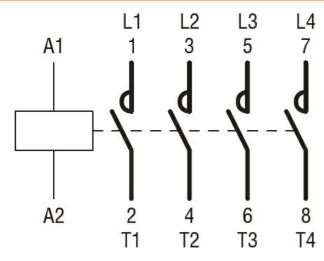
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CONTACTOR TYPE	A	В
B115	M6	15 (0.59")
B145	M8	20 (0.79")
B180	M8	20 (0.79")

Wiring diagrams



Certifications and compliance

Certifications	
	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
Compliance	
	CCC
	cULus
	EAC
ETIM 6 classification	

ETIM 6 classification

EC000066 - Power contactor, AC switching