

THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 185A, AC/DC COIL, 24VAC/DC



Product designation		Power contactor
Product type designation		B180
Contact characteristics		
Number of poles	nr.	3
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	Α	275
Operating current		
Operational current AC1 (≤40°C)	Α	275
Operational current AC3 (≤440V ≤55°C)	Α	185
Operational current AC4 (400V)	Α	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		0.4.5
gG (IEC)	A	315
aM (IEC)	A	200
Making capacity (RMS value)	Α	1850
Breaking capacity at voltage	۸	1050
Breaking capacity 440V	A	1850
Breaking capacity 500V Breaking capacity 690V	A A	1600 1480
	mΩ	0.3
Resistance per pole (average value)	11177	0.3
Power dissipation per pole (average value)	\^/	20.2
Power dissipation pole (average value) Ith	W	20.3
Tightoning torque for terminals	VV	9.7
Tightening torque for terminals	Nlm	18
min	Nm Nm	18
max		
min	lbft lbft	13.3 13.3
max	IDIL	10.0



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max number of wires s	simultaneously connectable		nr.	2
Conductor section				
	AWG			
		max		300 kcmil
	tion according to IEC/EN 60529			IP00
Auxiliary contact chara				
Operational current AC	,		Α	275
Operating current DC1	3			
		110V	Α	Screw
mbient conditions				
emperature				
	Operating temperature		° C	50
		min	°C	-50
	Otana ara ta mara anatama	max	°C	70
	Storage temperature	ma in	°C	00
		min	°C	-60 80
Max altitude		max		3000
			m	3000
Operating position		normal		Vertical plan
		allowable		Vertical plan ±30°
Mounting		allowable		Screw
Weight			g	5.45
Operations			g	5.45
porations				
•			Cycles	10000000
Mechanical life			Cycles Cycles	10000000
Mechanical life Electrical life			Cycles Cycles	10000000
Mechanical life Electrical life Safety related data	Od according to EN/ISO 13489-1			
Mechanical life Electrical life Safety related data	Od according to EN/ISO 13489-1	rated load	Cycles	1000000
Mechanical life Electrical life Safety related data	Od according to EN/ISO 13489-1	rated load mechanical load		1000000
Mechanical life Electrical life Safety related data Performance level B10	-		Cycles	1000000 1000000 10000000
Mechanical life Electrical life Safety related data Performance level B10 Mirror contats accordin	Od according to EN/ISO 13489-1 ng to IEC/EN 609474-4-1		Cycles	1000000 1000000 10000000 yes
Mechanical life Electrical life Safety related data Performance level B10 Mirror contats according	-		Cycles	1000000 1000000 10000000
Mechanical life Electrical life Safety related data Performance level B10 Mirror contats according EMC compatibility AC coil operating	-		Cycles	1000000 1000000 10000000 yes
Mechanical life Electrical life Safety related data Performance level B10 Mirror contats accordine EMC compatibility AC coil operating			Cycles	1000000 1000000 10000000 yes
Mechanical life Electrical life Safety related data Performance level B10 Mirror contats accordine EMC compatibility AC coil operating	ng to IEC/EN 609474-4-1		Cycles	1000000 1000000 10000000 yes
Mechanical life Electrical life Safety related data Performance level B10 Mirror contats according EMC compatibility AC coil operating	of 50/60Hz coil powered at 50Hz		Cycles	1000000 1000000 10000000 yes
Mechanical life Electrical life Safety related data Performance level B10 Mirror contats according EMC compatibility AC coil operating	of 50/60Hz coil powered at 50Hz	mechanical load	Cycles Cicli Cicli	1000000 1000000 10000000 yes yes
Mechanical life Electrical life Safety related data Performance level B10 Mirror contats accordine EMC compatibility AC coil operating	of 50/60Hz coil powered at 50Hz	mechanical load min max	Cycles Cicli Cicli WUs %Us	1000000 1000000 10000000 yes yes
Mechanical life Electrical life Safety related data Performance level B10 Mirror contats accordine EMC compatibility AC coil operating	of 50/60Hz coil powered at 50Hz pick-up	mechanical load	Cycles Cicli Cicli WUs WUs WUs	1000000 1000000 10000000 yes yes 0.8 1.1
Mechanical life Electrical life Safety related data Performance level B10 Mirror contats accordine EMC compatibility AC coil operating	of 50/60Hz coil powered at 50Hz pick-up	mechanical load min max	Cycles Cicli Cicli WUs WUs	1000000 1000000 10000000 yes yes
Mechanical life Electrical life Safety related data Performance level B10 Mirror contats according EMC compatibility AC coil operating	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 WUs WUs WUs	1000000 1000000 10000000 yes yes 0.8 1.1
Mechanical life Electrical life Safety related data Performance level B10 Mirror contats according EMC compatibility AC coil operating	of 50/60Hz coil powered at 50Hz pick-up	mechanical load min max min max	Cycles Cicli Cicli WUs WUs WUs WUs	1000000 1000000 10000000 yes yes 0.8 1.1 0.2 0.6
Mechanical life Electrical life Safety related data Performance level B10 Mirror contats according EMC compatibility AC coil operating	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	1000000 1000000 10000000 yes yes 0.8 1.1 0.2 0.6
Mechanical life Electrical life Bafety related data Performance level B10 Mirror contats according EMC compatibility C coil operating	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 WUs WUs WUs WUs	1000000 1000000 10000000 yes yes 0.8 1.1 0.2 0.6
Mechanical life Electrical life Safety related data Performance level B10 Mirror contats accordine EMC compatibility AC coil operating	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 10000000 yes yes 0.8 1.1 0.2 0.6
Mechanical life Electrical life Safety related data Performance level B10 Mirror contats accordine EMC compatibility AC coil operating	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 **Us **	1000000 1000000 10000000 yes yes 0.8 1.1 0.2 0.6
Mechanical life Electrical life Safety related data Performance level B10 Mirror contats accordin EMC compatibility AC coil operating AC operating voltage	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 10000000 yes yes 0.8 1.1 0.2 0.6
Mechanical life Electrical life Safety related data Performance level B10 Mirror contats accordin EMC compatibility AC coil operating AC operating voltage	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 **Us **	1000000 1000000 10000000 yes yes 0.8 1.1 0.2 0.6
Mechanical life Electrical life Safety related data Performance level B10 Mirror contats accordin EMC compatibility AC coil operating AC operating voltage	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 WUs WUs WUs WUs WUs WUs WUs	1000000 1000000 10000000 yes yes 0.8 1.1 0.2 0.6
Mechanical life Electrical life Safety related data Performance level B10	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 **Us **	1000000 1000000 10000000 yes yes 0.8 1.1 0.2 0.6

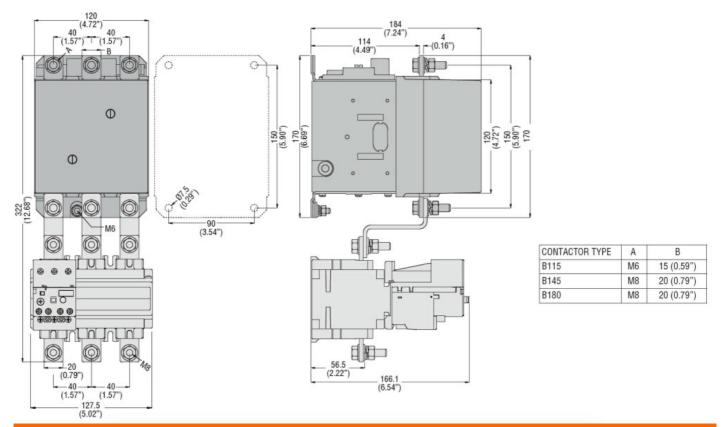


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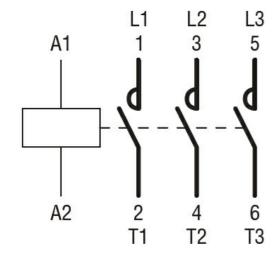
			in-rush	VA	300
			holding	VA	10
Dissipation at holding	≤20°C 50Hz			W	10
DC coil operating					
DC rated control voltage	je				
-			min	V	24
DC operating voltage					
	pick-up			0/11	
			min	%Us	0.8
			max	%Us	1.10
	drop-out		min	0/110	0.0
			min	%Us %Us	0.2 0.60
Average coil consuption	vn <20°C		max	%US	0.00
Average con consupuic	011 ≥20 C		in-rush	W	300
			holding	W	10
Max cycles frequency			Holding	V V	10
Mechanical operations				Cycles/h	2400
Operating times				J J 0100/1	100
Average time for Us co	ontrol				
· · · · · · · · · · · · · · · · · · ·	in AC				
		Closing NO			
		3 - 1 - 3 - 1	min	ms	60
			max	ms	100
		Opening NO			
			min	ms	25
			max	ms	60
	in DC				
		Closing NO			
			min	ms	60
			max	ms	100
		Opening NO			
			min	ms	25
THE COLD STORY THE			max	ms	60
UL technical data	for three place ^	Cmotor			
Full-load current (FLA)	ioi tillee-phase A	IO 1110101	o+ 400\/	٨	180
			at 480V at 600V	A A	180
Yielded mechanical pe	rformance		at 000 V	^	144
nelueu mechanicai pe	for three-phase	AC motor			
	ioi unee-pnase	AC HIOLOI	at 200/208V	hp	60
			at 200/200V at 220/230V	hp	75
			at 460/480V	hp	150
			at 575/600V	hp	150
General USE			2. 2. 3, 333 V		
	Contactor				
			AC current	Α	275
Other features					
Pollution degree					3
Dimensions					

ENERGY AND AUTOMATION

THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 185A, AC/DC COIL,



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





THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 185A, AC/DC COIL,

EC000066 - Power contactor, AC switching