



Product designation			Power contactor
Product type designation			B180
Contact characteristics			5100
Number of poles		nr.	3
Rated insulation voltage Ui IEC/EN		V	1000
Rated impulse withstand voltage Uimp		kV	8
Operational frequency			0
	min	Hz	25
	max	Hz	400
IEC Conventional free air thermal current Ith	max	A	275
Operational current le		A	210
	AC-1 (≤40°C)	А	275
	AC-1 (≤40 C) AC-1 (≤55°C)	A	130
	AC-3 (≤440V ≤55°C)	A	185
	AC-4 (400V)	A	65
Rated operational power AC-3 (T≤55°C)	70-4 (4007)	Α	00
Rated operational power AC-3 (1203 C)	230V	kW	57
	230V 400V	kW	100
	400V 415V	kW	108
	440V	kW	115
	500V	kW	123
	690V	kW	144
	1000V	kW	103
Rated operational power AC-1 (T≤40°C)	1000 V	N V V	105
Rated operational power AC-1 (1340 C)	230V	kW	95
	400V	kW	95 160
	400V 500V	kW	213
	690V	kW	298
Short-time allowable current for 10s (IEC/EN60947-1)	0001	A	1500
Protection fuse		Α	1500
FICECUCITUSE	gG (IEC)	۸	315
	aM (IEC)	A	200
Making capacity (RMS value)		A A	1850
Breaking capacity at voltage		A	1000
Bleaking capacity at voltage	4401/	^	4050
	440V	A	1850
	500V	A	1600
	690V	A	1480
Resistance per pole (average value)		mΩ	0.3
Power dissipation per pole (average value)			
	Ith	W	20.3
	AC3	W	9.7
Tightening torque for terminals			4.0
	min	Nm	18
	max	Nm	18
	min	Ibin	13.3



		max	Ibin	13.3
ightening torque for a	coil terminal			
		min	Nm	1
		max	Nm	1
		min	lbft	0.74
		max	lbft	0.74
	simultaneously connectable		nr.	2
	ction according to IEC/EN 60529			IP00
Aechanical features				
Operating position		n o ren o l		vertical plan
		normal allowable		vertical plan ±30°
Fixing		allowable		Screw
Veight			0	5340
Operations			g	5540
Aechanical life			cycles	10000000
Electrical life			cycles	1000000
Safety related data			Cycles	100000
	0d according to EN/ISO 13489-1			
	or according to EN/100 10703-1	rated load	cycles	1000000
		mechanical load	cycles	10000000
Airror contats accordi	ng to IEC/EN 609474-4-1	meenamearioarioaa	0y0l00	yes
EMC compatibility				yes
AC coil operating				900
Rated AC voltage at 5	0/60Hz. 60Hz			
		min	V	24
		max	V	480
C operating voltage				
1 0 0	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	20
		max	%Us	60
	of 60Hz coil powered at 60Hz			
	pick-up		0/11	
		min	%Us	80
	· · ·	max	%Us	110
	drop-out		0/11-	00
		min	%Us	20
		max	%Us	60
A construction of the second	-+ 20°C	Пах		
AC operating voltage		max		
C operating voltage	at 20°C of 50/60Hz coil powered at 50Hz			200
AC operating voltage		in-rush holding	VA VA	300 10

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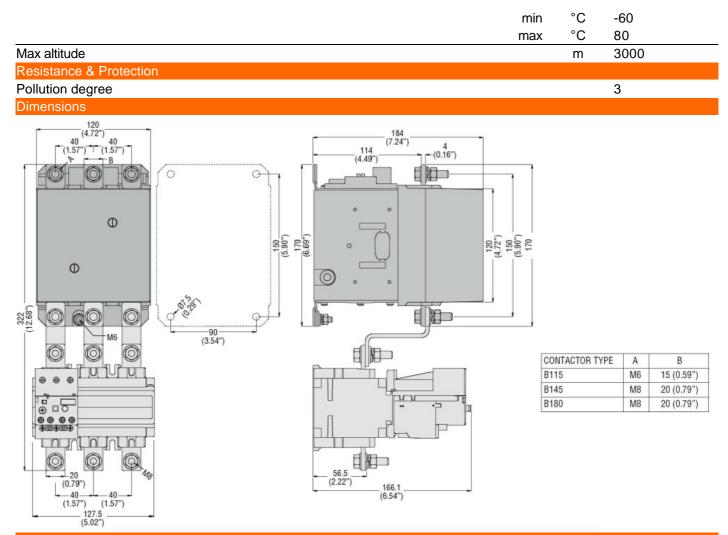


	of 50/60Hz coil powe	red at 60Hz			
			in-rush	VA	300
			holding	VA	10
Dissipation at holding :	≤20°C 50Hz			W	10
DC coil operating					
DC rated control voltage	je				
			min	V	24
DC operating voltage					
	pick-up				
			min	%Us	80
			max	%Us	110
	drop-out				
			min	%Us	20
			max	%Us	60
Average coil consump	tion ≤20°C				
			in-rush	W	300
			holding	W	10
Max cycles frequency					
Mechanical operations				cycles/h	2400
Operating times					
Average time for Us co	ontrol				
	in AC				
		Closing NO			
			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	max	ms	100
		Opening NO	max	ms ms	100 25
		Opening NO			
UL technical data		Opening NO	min	ms	25
<mark>UL technical data</mark> Full-load current (FLA)	for three-phase AC me		min	ms	25
	for three-phase AC m		min	ms	25
	for three-phase AC me		min max	ms ms	25 60
			min max at 480V	ms ms A	25 60 180
Full-load current (FLA)		otor	min max at 480V	ms ms A	25 60 180
Full-load current (FLA)	rformance	otor	min max at 480V	ms ms A	25 60 180
Full-load current (FLA)	rformance	otor	min max at 480V at 600V	ms ms A A	25 60 180 144
Full-load current (FLA)	rformance	otor	min max at 480V at 600V 200/208V	ms ms A A	25 60 180 144 60
Full-load current (FLA)	rformance	otor	min max at 480V at 600V 200/208V 220/230V	ms ms A A hp	25 60 180 144 60 75
Full-load current (FLA)	rformance	otor	min max at 480V at 600V 200/208V 220/230V 460/480V	ms ms A A A hp hp hp	25 60 180 144 60 75 150
Full-load current (FLA) Yielded mechanical pe	rformance	otor	min max at 480V at 600V 200/208V 220/230V 460/480V	ms ms A A A hp hp hp	25 60 180 144 60 75 150
Full-load current (FLA) Yielded mechanical pe	for three-phase AC n	otor	min max at 480V at 600V 200/208V 220/230V 460/480V	ms ms A A A hp hp hp	25 60 180 144 60 75 150
Full-load current (FLA) Yielded mechanical pe	for three-phase AC n	otor	min max at 480V at 600V 200/208V 220/230V 460/480V 575/600V	ms ms A A hp hp hp	25 60 180 144 60 75 150 150
Full-load current (FLA) Yielded mechanical pe General USE	for three-phase AC n	otor	min max at 480V at 600V 200/208V 220/230V 460/480V 575/600V	ms ms A A hp hp hp	25 60 180 144 60 75 150 150
Full-load current (FLA) Yielded mechanical pe	erformance for three-phase AC m Contactor	notor	min max at 480V at 600V 200/208V 220/230V 460/480V 575/600V	ms ms A A hp hp hp	25 60 180 144 60 75 150 150
Full-load current (FLA) Yielded mechanical pe General USE	for three-phase AC n	notor	min max at 480V at 600V 200/208V 220/230V 460/480V 575/600V	ms ms A A hp hp hp	25 60 180 144 60 75 150 150
Full-load current (FLA) Yielded mechanical pe General USE	erformance for three-phase AC m Contactor	notor	min max at 480V at 600V 200/208V 220/230V 460/480V 575/600V AC current	ms ms A A A hp hp hp hp hp	25 60 180 144 60 75 150 150 275

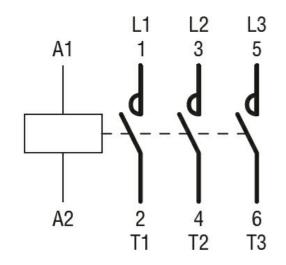
Storage temperature



## **11B18000220** Stycznik 3 polowy, 185A w AC3, 220VAC/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	

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The characteristics described in this document are subject to updates or modifications at any time. The descriptions, technical and functional information, illustrations and instructions in this brochure are purely illustrative, and are consequently not contractually binding



Certificates

CCC					
cULus	6				
EAC					

ETIM 6 classification

EC000066 - Power contactor, AC switching