



Product designation			Power contactor
Product type designation			B180
Contact characteristics		Nia	0
Number of poles		Nr. V	3
Rated insulation voltage Ui IEC/EN		kV	1000
Rated impulse withstand voltage Uimp  Operational frequency		KV	8
Operational frequency	min	Hz	25
	max	Hz	400
IEC Conventional free air thermal current Ith	IIIdX	A	275
Operational current le			213
Operational current le	AC-1 (≤40°C)	Α	275
	AC-1 (≤40 C) AC-1 (≤55°C)	A	250
	AC-1 (≤33°C) AC-1 (≤70°C)	A	200
	AC-1 ( <u>≤</u> 70 C) AC-3 (≤440V ≤55°C)	A	185
	AC-4 (400V)	A	65
Rated operational power AC-3 (T≤55°C)	AO-4 (400V)		
Nated operational power AG-5 (1255 G)	230V	kW	57
	400V	kW	100
	415V	kW	108
	440V	kW	115
	500V	kW	123
	690V	kW	144
	1000V	kW	103
Rated operational power AC-1 (T≤40°C)	10001		
The second secon	230V	kW	95
	400V	kW	160
	500V	kW	213
	690V	kW	298
IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series			
	75V	Α	260
	110V	Α	120
	220V	Α	_
	330V	Α	_
	460V	Α	_
IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series			
	75V	Α	260
	110V	Α	170
	220V	Α	150
	330V	Α	_
	460V	Α	_
IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series			
·	75V	Α	260
	110V	Α	170
	220V	Α	170



	330V	Α	150
	460V	Α	_
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series			
	75V	Α	260
	110V	Α	170
	220V	Α	170
	330V	Α	170
	460V	Α	150
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series			
·	75V	Α	180
	110V	Α	90
	220V	Α	_
	330V	Α	_
	460V	Α	_
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series	100 V	- , ,	
The max current to in 600-600 with ETC = 10m3 with 2 poics in school	75V	Α	180
	110V	A	140
	220V	A	100
	330V	A	
			_
IFO	460V	Α	_
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series	75)		400
	75V	Α	180
	110V	Α	160
	220V	Α	140
	330V	Α	100
	460V	Α	_
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series			
	75V	Α	180
	110V	Α	160
	220V	Α	160
	330V	Α	160
	460V	Α	100
Short-time allowable current for 10s (IEC/EN60947-1)		Α	1500
Protection fuse			
	gG (IEC)	Α	315
	aM (IEC)	Α	200
Making capacity (RMS value)	, ,	Α	1850
Breaking capacity at voltage			
g cap accept of	440V	Α	1850
	500V	Α	1600
	690V	Α	1480
Resistance per pole (average value)	3001	mΩ	0.3
Power dissipation per pole (average value)		2	<u> </u>
1 onos albaipation por poro (average value)	Ith	W	20.3
	AC-3	W	9.7
Tightening torque for terminals	AU-3	V V	J.1
riginaling torque for terrillials		Nice	10
	min	Nm	18
	max	Nm	18
	min	lbin	13.3
<del></del>	max	lbin	13.3
Tightening torque for coil terminal			
	min	Nm	1
	max	Nm	1



		min	lbin	0.74
		max	lbin	0.74
Max number of wires s	simultaneously connectable		Nr.	2
Conductor section				
	AWG/Kcmil			
		max		300 kcmil
Power terminal protect	tion according to IEC/EN 60529			IP00
Mechanical features				
Operating position				
		normal		Vertical plan
		allowable		±30°
Fixing				Screw
Weight			g	5340
Conductor section				
	AWG/kcmil conductor section			
		max		300 kcmil
Operations				
Mechanical life			cycles	10000000
Electrical life			cycles	1000000
Safety related data			,	
	0d according to EN/ISO 13489-1			
	<b>3</b>	rated load	cycles	1000000
		mechanical load	cycles	10000000
Mirror contats according	ng to IEC/EN 609474-4-1		-,	yes
EMC compatibility	9 10 1201211 20011			yes
AC coil operating				yee
Rated AC voltage at 5	0/60Hz, 60Hz			
. tatou / to tomago at o	o, oo: . <u>_</u> , oo: . <u>_</u>	min	V	220
		max	V	240
AC operating voltage				
rio operaning remage	of 50/60Hz coil powered at 50Hz			
	pick-up			
	prox up	min	%Us	80
		max	%Us	110
	drop-out	max	,500	
	3. op 04t	min	%Us	20
		max	%Us	60
	of 50/60Hz coil powered at 60Hz			
	of 50/60Hz coil powered at 60Hz pick-up			
	of 50/60Hz coil powered at 60Hz pick-up	min	%Us	80
	•	min max	%Us %Us	80 110
	pick-up	min max	%Us %Us	80 110
	•	max	%Us	110
	pick-up	max min	%Us %Us	110 20
	pick-up drop-out	max	%Us	110
	pick-up  drop-out  of 60Hz coil powered at 60Hz	max min	%Us %Us	110 20
	pick-up drop-out	max min max	%Us %Us %Us	110 20 60
	pick-up  drop-out  of 60Hz coil powered at 60Hz	max min max min	%Us %Us %Us	110 20 60 80
	pick-up  drop-out  of 60Hz coil powered at 60Hz pick-up	max min max	%Us %Us %Us	110 20 60
	pick-up  drop-out  of 60Hz coil powered at 60Hz	max min max min max	%Us %Us %Us %Us %Us	110 20 60 80 110
	pick-up  drop-out  of 60Hz coil powered at 60Hz pick-up	max min max min	%Us %Us %Us	110 20 60 80

AC average coil consumption at 20°C

of 50/60Hz coil powered at 50Hz



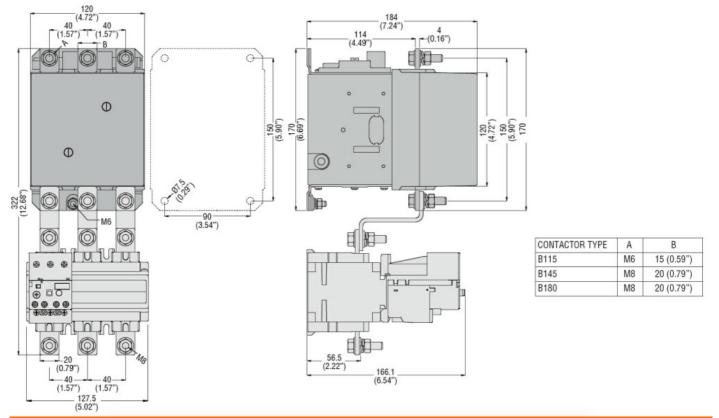
			in-rush	VA	300
			holding	VA	10
	of 50/60Hz coil power	red at 60Hz			
			in-rush	VA	300
			holding	VA	10
Dissipation at holding ≤	≦20°C 50Hz			W	10
DC coil operating					
DC rated control voltag	je				
			min	V	220
			max	V	240
DC operating voltage					
	pick-up				
			min	%Us	80
			max	%Us	110
	drop-out				
			min	%Us	20
			max	%Us	60
Average coil consumpt	tion ≤20°C				_
,			in-rush	W	300
			holding	W	10
Max cycles frequency					
Mechanical operation				cycles/h	2400
Operating times				,	
Average time for Us co	ntrol				
	in AC				
		Closing NO			
		Glooming 110	min	ms	60
			max	ms	100
		Opening NO			
		5 p 5 m 19 m 2	min	ms	25
			max	ms	60
	in DC				
	•	Closing NO			
		5.22 <b>g</b>	min	ms	60
			max	ms	100
		Opening NO		='	
		- 1	min	ms	25
			max	ms	60
UL technical data					
Full-load current (FLA)	for three-phase AC mo	otor			
	ļ		at 480V	Α	180
			at 600V	A	144
Yielded mechanical pe	rformance				
po	for three-phase AC m	notor			
	.c. and phace no m		200/208V	HP	60
			220/230V	HP	75
			575/600V	HP	150
General USE			310,000 1	• • •	
CONOTAL COL	Contactor				
	Contactor		AC current	Α	275
Short-circuit protection	fuse 600V		AO CUITETIL	Λ	210
Chort-oncort protection	Standard fault				
	Statiualu läult		Short circuit current	LΛ	10
				kA ^	
			Fuse rating	Α	500

**ENERGY AND AUTOMATION** 

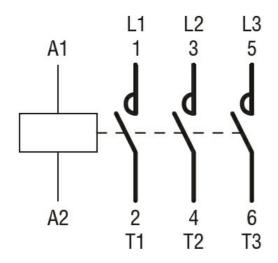
## THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 185A, AC/DC COIL, 220...240VAC/DC

		Fuse class		RK5
		ruse ciass		KNO
Ambient conditions				
Temperature				
•	Operating temperature			
		min	°C	-50
		max	°C	70
	Storage temperature			
		min	°C	-60
		max	°C	80
Max altitude			m	3000
Resistance & Protect	tion			
Pollution degree				3

#### **Dimensions**



### Wiring diagrams



### Certifications and compliance



### 11B18000220

THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 185A, AC/DC COIL, 220...240VAC/DC

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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 CCC

Certificates

cULus

EAC

ETIM classification

ETIM 8.0

EC000066 -Power contactor, AC switching