



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	A	170
	220V	Α	170
	330V	A	170
150 DOS DOS WILLIAM WILLIAM IN A 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	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			
	75V	Α	180
	110V	A	140
	220V	A	100
	330V	A	_
	460V	Α	
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series			
	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	100 V	- / \	
120 max current le in 200-200 with 2/13 13ms with 4 poles in series	75V	۸	180
		A	
	110V	A	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			
Disaming supusity at voltage	440V	Α	1850
	500V		1600
		A	
Position and the second of	690V	Α	1480
Resistance per pole (average value)		mΩ	0.3
Power dissipation per pole (average value)			
	Ith	W	20.3
	AC-3	W	9.7
Tightening torque for terminals			
	min	Nm	18
	max	Nm	18
	min	lbin	13.3
Tightoning tour of a poil to reside!	max	lbin	13.3
Tightening torque for coil terminal	_		
	min	Nm	1
	max	Nm	1



		min	lbin	0.74
		max	Ibin	0.74
	multaneously connectable		Nr.	2
Conductor section	A)A(O/I/C ::			
	AWG/Kcmil			200 kamil
Dower terminal protection	on according to IEC/EN 60520	max		300 kcmil IP00
Power terminal protection Mechanical features	on according to IEC/EN 60529			IPUU
Operating position				
operating position		normal		Vertical plan
		allowable		±30°
Fixing				Screw
Weight			g	5450
Conductor section				
	AWG/kcmil conductor section			
		max		300 kcmil
Operations				
Mechanical life			cycles	10000000
Electrical life			cycles	1000000
Safety related data	F-1/20 1015			
Performance level B10	d according to EN/ISO 13489-1			4000000
		rated load	cycles	1000000
Mirror contata according	g to IEC/EN 609474-4-1	mechanical load	cycles	10000000
EMC compatibility	J 10 IEC/EN 009474-4-1			yes
AC coil operating				yes
Rated AC voltage at 50/	/60Hz		V	60
AC operating voltage	001.12		<u>*</u>	
The special grant	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		0/11-	00
		min	%Us %Us	80
	drop-out	max	%US	110
	drop-out		0/11-	20
		min	%1 IC	
		min max	%Us %Us	60
	of 60Hz coil powered at 60Hz	min max	%Us %Us	60
	of 60Hz coil powered at 60Hz			60
	of 60Hz coil powered at 60Hz pick-up			80
	•	max	%Us	
	•	max min	%Us	80
	pick-up	max min	%Us %Us %Us %Us	80 110 20
	pick-up drop-out	max min max	%Us %Us %Us	80 110
AC average coil consun	pick-up drop-out	max min max min	%Us %Us %Us %Us	80 110 20
AC average coil consun	pick-up drop-out	max min max min max	%Us %Us %Us %Us %Us	80 110 20 60
AC average coil consun	pick-up drop-out	max min max min	%Us %Us %Us %Us	80 110 20

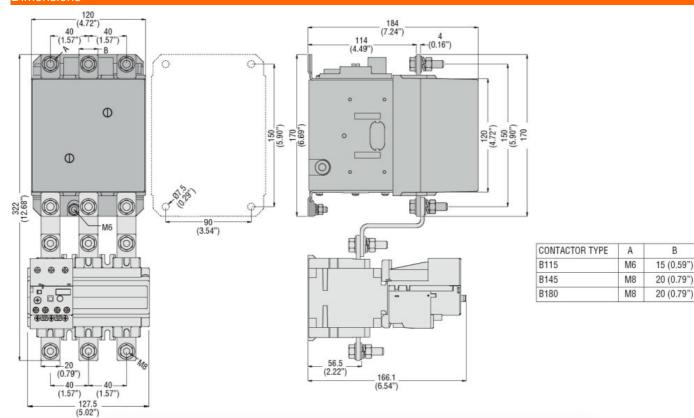


	of 50/60Hz coil po	owered at 60Hz			
			in-rush	VA	300
			holding	VA	10
Dissipation at holding	≤20°C 50Hz			W	10
DC coil operating					
DC rated control voltage	ge			V	60
DC operating voltage					
	pick-up				
			min	%Us	80
			max	%Us	110
	drop-out				
			min	%Us	20
			max	%Us	60
Average coil consump	tion ≤20°C				
j i			in-rush	W	300
			holding	W	10
Max cycles frequency					
Mechanical operation				cycles/h	2400
Operating times				,	
Average time for Us co	ontrol				
	in AC				
		Closing NO			
		Glooming 110	min	ms	60
			max	ms	100
		Opening NO	max		.00
		oponing i to	min	ms	25
			max	ms	60
	in DC				
	20	Closing NO			
		5.55g	min	ms	60
			max	ms	100
		Opening NO	max		
		oponing i to	min	ms	25
			max	ms	60
UL technical data			тисх	1110	
Full-load current (FLA)	) for three-phase AC	motor			
. an ioua ourion (i LA)	, .300 pila00 AC		at 480V	Α	180
			at 400 V	A	144
Yielded mechanical pe	erformance		at 000 v		
. Islaca moonamoar pe	for three-phase A	C motor			
	701 till 00 pilage A	.c motor	200/208V	HP	60
			220/230V	HP	75
			575/600V	HP	150
General USE			31 3/000 V	1 11	
Conoral OOL	Contactor				
	Contactor		AC current	Α	275
Short-circuit protection	fuse 600V		AC CUITEIIL		210
onon-oncon protection					
	Standard fault		Chart aireadt augreent	IzΛ	10
			Short circuit current	kA ^	10
			Fuse rating Fuse class	Α	500 BK5
Ambient conditions			Fuse class		RK5
Ambient conditions					
Temperature					

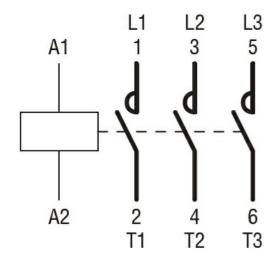


	min max	°C °C	-50 70
Storage temperature			
	min	°C	-60
	max	°C	80
Max altitude		m	3000
Resistance & Protection			
Pollution degree	·		3

### **Dimensions**



### Wiring diagrams



### Certifications and compliance

Compliance

CSA C22.2 n° 60947-1

CSA C22.2 n° 60947-4-1

IEC/EN 60947-1



### 11B1800060

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

	IEC/EN 60947-4-1
	UL 60947-1
	UL 60947-4-1
Certificates	
	CCC
	cULus
	EAC

ETIM classification

ETIM 8.0

EC000066 -Power contactor, AC switching