

Product designation			Power contactor
Product type designation			B180
Contact characteristics Number of poles		Nr.	3
Rated insulation voltage Ui IEC/EN		V	1000
Rated impulse withstand voltage Uimp		kV	8
Operational frequency		K V	0
Operational frequency	min	Hz	25
	max	Hz	400
IEC Conventional free air thermal current Ith	IIIdx	A	275
Operational current le			210
Operational current to	AC-1 (≤40°C)	Α	275
	AC-1 (≤55°C)	Α	250
	AC-1 (≤70°C)	Α	200
	AC-3 (≤440V ≤55°C)	Α	185
	AC-4 (400V)	Α	65
Rated operational power AC-3 (T≤55°C)	()		
1 1 2 3 (22 3)	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)			
	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	_
150	460V	Α	_
IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series	 :	•	000
	75V	A	260
	110V	A	170
	220V	A	150
	330V	A	_
IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series	460V	Α	_
TEC max current le in DCT with L/R > mis with 3 poles in series	75V	٨	260
	75V 110V	A	260 170
	220V	A A	170
	2200	^	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	3.1
riginaling torque for terrillials		Nice	10
	min	Nm Nm	18
	max	Nm	18
	min	lbin	13.3
	max	lbin	13.3
Tightening torque for coil terminal			
	min	Nm	1
	max	Nm	1



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

		min	Ibin	0.74
		max	lbin	0.74
Max number of wires sir	multaneously connectable		Nr.	2
Conductor section				
	AWG/Kcmil			
<u> </u>	" , IEO/EN 00500	max		300 kcmil
Power terminal protection Mechanical features	on according to IEC/EN 60529			IP00
Operating position				
Operating position		normal		Vertical plan
		allowable		±30°
Fixing				Screw
Weight			g	5460
Conductor section				
	AWG/kcmil conductor section			
		max		300 kcmil
Operations				1000
Mechanical life			cycles	10000000
Electrical life			cycles	1000000
Safety related data	d according to EN/ISO 13489-1			
r enormance level broc	according to EN/130 13409-1	rated load	cycles	1000000
		mechanical load	cycles	1000000
Mirror contats according	to IEC/EN 609474-4-1		0,0.00	yes
EMC compatibility	,			yes
AC coil operating				
Rated AC voltage at 50/	60Hz		V	48
AC operating voltage				
	of 50/60Hz coil powered at 50Hz			
	pick-up		0/11	
		min	%Us	80
	drop-out	max	%Us	110
	diop-out	min	%Us	20
		max	%Us	60
	of 50/60Hz coil powered at 60Hz			
	pick-up			
	•	min	%Us	80
		max	%Us	110
	drop-out		0	
		min	%Us	20
	of 60Hz coil powered at 60Hz	max	%Us	60
	of 60Hz coil powered at 60Hz pick-up			
	ριοκ-αρ	min	%Us	80
		max	%Us	110
	drop-out			
	·	min	%Us	20
		max	%Us	60
				·
AC average coil consum				
_	nption at 20°C of 50/60Hz coil powered at 50Hz			
_		in-rush holding	VA VA	300 10



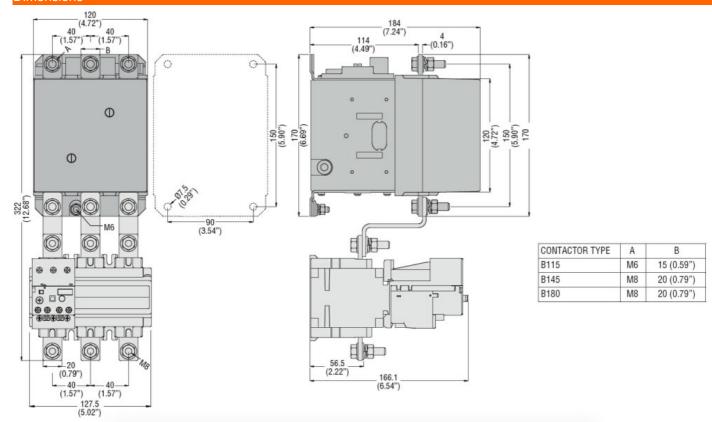
	of 50/60Hz coil pow	ered at 60Hz			
			in-rush	VA	300
			holding	VA	10
Dissipation at holding ≤	≤20°C 50Hz			W	10
DC coil operating					
DC rated control voltag	ie			V	48
DC operating voltage)-			<u> </u>	
Do operating voltage	pick-up				
	ріск-ир		min	%Us	80
			min		
	 		max	%Us	110
	drop-out		_		
			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				3,0100/11	_ 100
Average time for Us co	ontrol				
Average unite for US CO					
	in AC	01 1 110			
		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	IIIdX	1113	100
		Opening NO	ي. • د د د د د د د د د د د د د د د د د د		0.5
			min	ms	25
			max	ms	60
UL technical data					
Full-load current (FLA)	for three-phase AC r	notor			
			at 480V	Α	180
			at 600V	Α	144
Yielded mechanical pe	rformance				
'	for three-phase AC	motor			
			200/208V	HP	60
			220/230V	HP	75
			575/600V	HP	150
General USE			373/0007	ПГ	100
General USE	0				
	Contactor			_	
_			AC current	Α	275
Short-circuit protection	fuse, 600V				
	Standard fault				
			Short circuit current	kA	10
			Fuse rating	Α	500
			Fuse class		RK5
Ambient conditions			1 430 01433		
Temperature					

Operating temperature

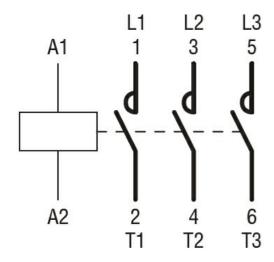


	min max	°C °C	-50 70
Storage temperature			
	min	°C	-60
	max	°C	80
Max altitude		m	3000
Resistance & Protection			
Pollution degree			3

Dimensions



Wiring diagrams



Certifications and compliance

Compliance

CSA C22.2 n° 60947-1

CSA C22.2 n° 60947-4-1

IEC/EN 60947-1



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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