



Product designation			Power contactor B180
Product type designation Contact characteristics			
Number of poles		Nr.	4
Rated insulation voltage Ui IEC/EN		V	1000
Rated impulse withstand voltage Uimp		kV	8
Operational frequency			
	min	Hz	25
	max	Hz	400
IEC Conventional free air thermal current Ith		Α	275
Operational current le			
	AC-1 (≤40°C)	А	275
	AC-1 (≤55°C)	А	250
	AC-1 (≤70°C)	А	200
	AC-3 (≤440V ≤55°C)	А	185
	AC-4 (400V)	А	65
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 $L/R \le 1$ ms with 1 poles in series			
	75V	А	260
	110V	А	120
	220V	А	_
	330V	А	-
	460V	A	-
IEC max current le in DC1 with $L/R \le 1$ ms with 2 poles in series			
	75V	А	260
	110V	А	170
	220V	A	150
	330V	A	_
	460V	A	_
IEC max current le in DC1 with $L/R \le 1$ ms with 3 poles in series			
	75V	A	260
	110V	A	170
	220V	A	170
	330V	A	150
	460V	A	_
IEC max current le in DC1 with $L/R \le 1$ ms with 4 poles in series			
	75V	A	260
	110V	A	170
	220V	A	170
	330V	A	170
	460V	A	150

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IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series			
The max current le in DC3-DC3 with $L/R \leq 15$ ms with 1 poles in series	75V	А	180
	110V	A	90
	220V	A	-
	330V	A	_
	460V	A	_
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series	1001		
	75V	А	180
	110V	A	140
	220V	A	100
	330V	A	_
	460V	A	_
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series	100 V	7.	
	75V	А	180
	110V	A	160
	220V	A	140
	330V	A	100
	460V	A	_
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series			
	75V	А	180
	110V	A	160
	220V	A	160
	330V	A	160
	460V	A	100
Short-time allowable current for 10s (IEC/EN60947-1)		Α	1500
Protection fuse			
	gG (IEC)	А	315
	aM (IEC)	А	200
Making capacity (RMS value)	× /	А	1850
Breaking capacity at voltage			
	440V	А	1850
	500V	А	1600
	690V	А	1480
Resistance per pole (average value)		mΩ	0.3
Power dissipation per pole (average value)			
	lth	W	20.3
	AC-3	W	9.7
Tightening torque for terminals		_	
	min	Nm	18
	max	Nm	18
	min	lbin	13.3
	max	Ibin	13.3
Tightening torque for coil terminal			
	min	Nm	1
	max	Nm	1
	min	lbin	0.74
	max	Ibin	0.74
Max number of wires simultaneously connectable		Nr.	2
Conductor section			
AWG/Kcmil			000 I
	max		300 kcmil
Power terminal protection according to IEC/EN 60529			IP00
Mechanical features			

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**11B18040060** FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 275A, AC/DC COIL, 60VAC/DC

Operating position

Operating position				
		normal		Vertical plan
		allowable		±30°
Fixing				Screw
Weight			g	6250
Conductor section				
	AWG/kcmil conductor section			
		max		300 kcmil
Operations				4000000
Mechanical life			cycles	1000000
Electrical life			cycles	1000000
Safety related data				
Performance level B10	0d according to EN/ISO 13489-1			400000
		rated load	cycles	1000000
		mechanical load	cycles	1000000
	ng to IEC/EN 609474-4-1			yes
EMC compatibility				yes
AC coil operating			, <i>i</i>	
Rated AC voltage at 5	U/6UHZ		V	60
AC operating voltage				
	of 50/60Hz coil powered at 50Hz			
	pick-up		0/11	
		min	%Us	80
		max	%Us	110
	drop-out		0/11-	<u></u>
		min	%Us	20
		max	%Us	60
	of 50/60Hz coil powered at 60Hz			
	pick-up		0/11-	
		min	%Us	80
	-lass - s. A	max	%Us	110
	drop-out		0/11-	20
		min	%Us	20
		max	%Us	60
	of 60Hz coil powered at 60Hz			
	pick-up		0/11-	<u>00</u>
		min	%Us %Us	80 110
	drop out	max	7005	110
	drop-out	min	%Us	20
		max	%Us %Us	20 60
AC average coil consu	Imption at 20°C	IIIdX	/005	00
no average coll collst	of 50/60Hz coil powered at 50Hz			
	or soluting con powered at soling	in-rush	VA	300
		holding	VA VA	10
	of 50/60Hz coil powered at 60Hz	noiuing	٧٨	10
		in-rush	VA	300
		holding	VA VA	10
Dissipation at holding	<20°C 50Hz	noiuing	W	10
Dissipation at holding a DC coil operating			vv	
DC con operating DC rated control voltage			V	60
	Ac		v	00
DC operating voltage	niek un			

pick-up

ENERGY AND AUTOMATION

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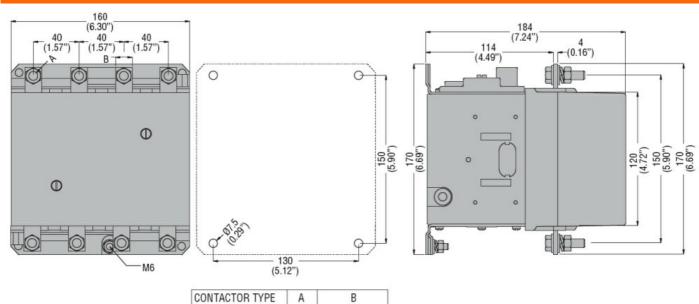
				<u></u>	
			min	%Us %Us	80 110
	drop-out		max	/005	110
			min	%Us	20
			max	%Us	60
Average coil consumpt	tion ≤20°C				
			in-rush	W	300
			holding	W	10
Max cycles frequency					
Mechanical operation				cycles/h	2400
Operating times Average time for Us co	patrol				
Average time for 03 co	in AC				
		Closing NO			
		closing ite	min	ms	60
			max	ms	100
		Opening NO			
			min	ms	25
			max	ms	60
	in DC	<b>.</b>			
		Closing NO			22
			min	ms	60 100
		Opening NO	max	ms	100
			min	ms	25
			max	ms	60
UL technical data					
Full-load current (FLA)	for three-phase AC mot	or			
			at 480V	А	180
			at 600V	Α	144
Yielded mechanical pe					
	for three-phase AC mo	otor			
			200/208V	HP	60
			220/230V 575/600V	HP HP	75 150
General USE			575/6000	ΠF	150
	Contactor				
	Contactor		AC current	А	275
Short-circuit protection	fuse, 600V				-
,	Standard fault				
			Short circuit current	kA	10
			Fuse rating	А	500
			Fuse class		RK5
Ambient conditions					
Temperature					
	Operating temperature			° <b>^</b>	50
			min	°C ℃	-50 70
	Storage temperature		max	U	10
	Storage temperature		min	°C	-60
			max	°C	80
Max altitude				 	3000
Resistance & Protectio	n				
Pollution degree					3

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Dimensions



15 (0.59")

20 (0.79")

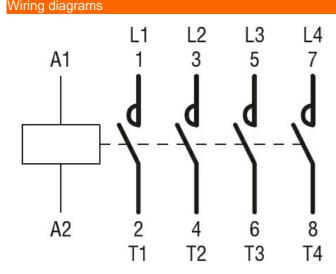
20 (0.79")

M6

M8

M8

Wiring	diagrama



B115

B145

B180

## 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	
Certificates		
	CCC	
	cULus	
	EAC	
ETIM classification		
		EC000066 -
ETIM 8.0		Power contactor, AC switching

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