





Product designation Product type designation			Power contactor 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			
	min	Hz	25
	max	Hz	400
IEC Conventional free air thermal current Ith		Α	275
Operational current le			
	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)			
	230V	kW	57
	400V	kW	100
	415V	kW	108
	440V	kW	115
	500V	kW	123
	690V	kW	144
Dated an autismal narray AC 1 /T<10°C\	1000V	kW	103
Rated operational power AC-1 (T≤40°C)	0001/	1-107	٥٢
	230V	kW	95
	400V 500V	kW kW	160 213
	690V	kW	298
IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series	090 V	KVV	290
TEC max current le in DCT with L/R \$ 1ms with 1 poles in series	75V	۸	260
	110V	A A	120
	220V	A	120
	330V	A	_
	460V	A	_
IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series	+00 V		
120 max odnoncio in 201 with Lift 2 mio with 2 poles in selles	75V	Α	260
	110V	A	170
	220V	A	150
	330V	A	_
	460V	A	_
IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series	₹ 00 ¥	- ' '	
120 max sarront to in 201 mar 2/10 mile o poloo in solito	75V	Α	260
	110V	A	170
	220V	A	170
	220 V	, ,	



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THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 185A, AC/DC COIL, 380...415VAC/DC

	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			
120 max current to in 200-200 with E/N = 10m3 with 4 poles in series	75V	Α	180
	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	A	1600
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
		lbin	13.3
Tightoning targue for soil terminal	max	וווטו	13.3
Tightening torque for coil terminal			,
	min	Nm	1
	max	Nm	1



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		min	Ibin	0.74
		max	Ibin	0.74
	simultaneously connectable		Nr.	2
Conductor section				
	AWG/Kcmil			
		max		300 kcmil
	tion according to IEC/EN 60529			IP00
Mechanical features				
Operating position				
		normal		Vertical plan
		allowable		±30°
Fixing				Screw
Weight			g	5430
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			
	3	rated load	cycles	1000000
		mechanical load	cycles	10000000
Mirror contats according	ng to IEC/EN 609474-4-1		0,0.00	yes
EMC compatibility	19 10 12 67 214 000 17 1 1 1			yes
AC coil operating				yes
Rated AC voltage at 50	0/60Hz 60Hz			
Nated AC voltage at 50	0/00112, 00112	min	V	380
		max	V	415
AC operating voltage		Παλ	V	413
AC operating voltage	of EO/GOUZ goil nowared at EOUZ			
	of 50/60Hz coil powered at 50Hz			
	niak un			
	pick-up	جدة مصو	0/110	90
	pick-up	min	%Us	80
		min max	%Us %Us	80 110
	pick-up drop-out	max	%Us	110
		max min	%Us %Us	110 20
	drop-out	max	%Us	110
	drop-out of 50/60Hz coil powered at 60Hz	max min	%Us %Us	110 20
	drop-out	max min max	%Us %Us %Us	110 20 60
	drop-out of 50/60Hz coil powered at 60Hz	max min max min	%Us %Us %Us	110 20 60 80
	of 50/60Hz coil powered at 60Hz pick-up	max min max	%Us %Us %Us	110 20 60
	drop-out of 50/60Hz coil powered at 60Hz	max min max min max	%Us %Us %Us %Us %Us	110 20 60 80 110
	of 50/60Hz coil powered at 60Hz pick-up	max min max min max min max	%Us %Us %Us %Us %Us %Us	110 20 60 80 110 20
	of 50/60Hz coil powered at 60Hz pick-up	max min max min max	%Us %Us %Us %Us %Us	110 20 60 80 110
	of 50/60Hz coil powered at 60Hz pick-up	max min max min max min max	%Us %Us %Us %Us %Us %Us	110 20 60 80 110 20
	of 50/60Hz coil powered at 60Hz pick-up	max min max min max min max	%Us %Us %Us %Us %Us %Us	110 20 60 80 110 20
	of 50/60Hz coil powered at 60Hz pick-up drop-out drop-out	max min max min max min max	%Us %Us %Us %Us %Us %Us	110 20 60 80 110 20
	of 50/60Hz coil powered at 60Hz pick-up drop-out drop-out	max min max min max min max	%Us %Us %Us %Us %Us %Us	110 20 60 80 110 20 60
	of 50/60Hz coil powered at 60Hz pick-up drop-out drop-out	max min max min max min max min max	%Us %Us %Us %Us %Us %Us %Us %Us %Us	110 20 60 80 110 20 60
	of 50/60Hz coil powered at 60Hz pick-up drop-out of 60Hz coil powered at 60Hz pick-up	max min max min max min max min max	%Us %Us %Us %Us %Us %Us %Us %Us %Us	110 20 60 80 110 20 60
	of 50/60Hz coil powered at 60Hz pick-up drop-out of 60Hz coil powered at 60Hz pick-up	max min max min max min max min max	%Us %Us %Us %Us %Us %Us %Us %Us %Us	110 20 60 80 110 20 60

AC average coil consumption at 20°C

of 50/60Hz coil powered at 50Hz



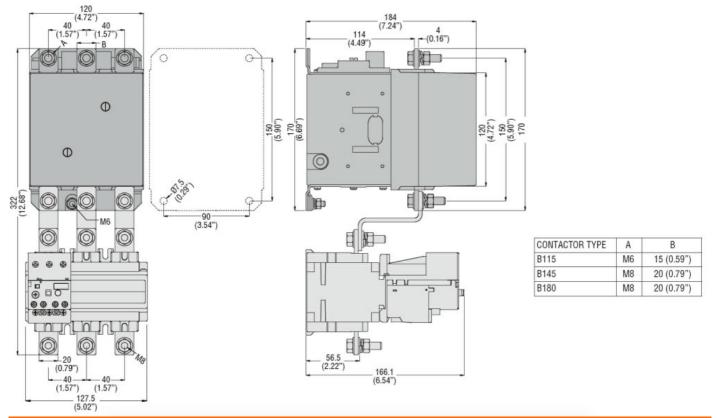
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			in-rush	VA	300
			holding	VA	10
	of 50/60Hz coil pow	ered at 60Hz			
			in-rush	VA	300
			holding	VA	10
Dissipation at holding:	≤20°C 50Hz			W	10
DC coil operating					
DC rated control voltage	ge				
`	,		min	V	380
			max	V	415
DC operating voltage			max	•	
20 operating remage	pick-up				
	plok up		min	%Us	80
			max	%Us	110
	drop-out		IIIdx	7003	110
	αιορ-σαι		min	%Us	20
			max	%Us	60
Average coil consump	tion <20°C		IIIdX	/005	00
Average con consump	u011 ≥20 U		عامريس منا	W	300
			in-rush		
Mov ovelee frequency			holding	W	10
Max cycles frequency				0) (6) 6 - / -	2400
Mechanical operation				cycles/h	2400
Operating times	1				
Average time for Us co					
	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			
			min	ms	25
			max	ms	60
UL technical data					
Full-load current (FLA)	for three-phase AC n	notor			
			at 480V	Α	180
			at 600V	Α	144
Yielded mechanical pe					
	for three-phase AC	motor			
			200/208V	HP	60
			220/230V	HP	75
			575/600V	HP	150
General USE					
	Contactor				
			AC current	Α	275
Short-circuit protection	fuse, 600V				
	Standard fault				
			Short circuit current	kA	10
			Fuse rating	Α	500

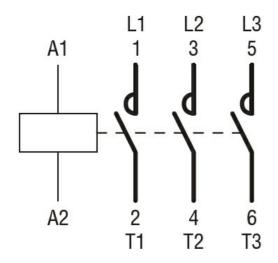
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		Fuse class		RK5
Ambient conditions		1 des sides		7410
Temperature				
•	Operating temperature			
		min	°C	-50
		max	°C	70
	Storage temperature			
		min	°C	-60
		max	°C	80
Max altitude			m	3000
Resistance & Protect	tion			
Pollution degree				3
Dimensions				

Dimensions



Wiring diagrams



Certifications and compliance



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Compliance

CSA C22.2 n° 60947-1

CSA C22.2 n° 60947-4-1

IEC/EN 60947-1

UL 60947-1

UL 60947-4-1

Certificates

CCC cULus EAC

ETIM classification

ETIM 8.0 EC000066 Power contactor,
AC switching