



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			
	min	Hz	25
	max	Hz	400
IEC Conventional free air thermal current Ith		А	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-3 (T=55°C)			
	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	А	260
	110V	А	120
	220V	А	-
	330V	А	-
	460V	Α	_
IEC max current le in DC1 with L/R = 1ms with 2 poles in series			
	75V	А	260
	110V	А	170
	220V	А	150
	330V	А	_
	460V	Α	-
IEC max current le in DC1 with L/R = 1ms with 3 poles in series			
	75V	А	260
	110V	А	170
	220V	А	170

electric ENERGY AND AUTOMATION

THREE-POLE CONTACTOR, IE 110...125VAC/DC

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EC OPERATING CURRENT IE (AC3) = 185A, AC/DC CO	IL,

	330V	А	150
	460V	А	_
IEC max current le in DC1 with L/R = 1ms with 4 poles in series			
	75V	А	260
	110V	А	170
	220V	А	170
	330V	А	170
	460V	Α	150
IEC max current le in DC3-DC5 with L/R = 15ms with 1 poles in series			
	75V	А	180
	110V	А	90
	220V	А	-
	330V	А	-
	460V	A	_
IEC max current le in DC3-DC5 with L/R = 15ms with 2 poles in series			
	75V	А	180
	110V	A	140
	220V	A	100
	330V	A	_
	460V	A	_
IEC max current le in DC3-DC5 with $L/R = 15$ ms with 3 poles in series			
	75V	A	180
	110V	A	160
	220V	A	140
	330V	A	100
IFO men summer le in DOS DOS with L/D 45mm with 4 melos in equipe	460V	A	_
IEC max current le in DC3-DC5 with $L/R = 15ms$ with 4 poles in series	75\/	۸	100
	75V 110V	A	180
	220V	A A	160 160
	330V	A	160
	460V	A	100
Short-time allowable current for 10s (IEC/EN60947-1)	4007	A	1500
Protection fuse			1000
	gG (IEC)	А	315
	aM (IEC)	A	200
Making capacity (RMS value)		A	1850
Breaking capacity at voltage			1000
Diodining odpubly at voltage	440V	А	1850
	500V	A	1600
	690V	A	1480
Resistance per pole (average value)		m?	0.3
Power dissipation per pole (average value)			
	lth	W	20.3
	AC3	W	9.7
Tightening torque for terminals			-
	min	Nm	18
	max	Nm	18
	min	Ibin	13.3
	max	Ibin	13.3
Tightening torque for coil terminal			
	min	Nm	1
	max	Nm	1

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		min	Ibin	0.74
Max number of wires	simultanoously connectable	max	Ibin Nr.	0.74
Conductor section	simultaneously connectable		INI.	۷
	AWG/Kcmil			
		max		300 kcmil
Power terminal protect	ction according to IEC/EN 60529			IP00
Mechanical features	Ŭ			
Operating position				
		normal		Vertical plan
		allowable		±30°
Fixing				Screw
Weight			g	5380
Conductor section				
	AWG/kcmil conductor section			
		max		300 kcmil
Operations				100000000
Mechanical life			cycles	10000000
Electrical life			cycles	1000000
Safety related data	10d according to EN/ISO 12480 1			
renormance level B1	10d according to EN/ISO 13489-1	rated load	ovoloo	1000000
		mechanical load	cycles cycles	10000000
				10000000
Mirror contats accord	ling to IEC/EN 609474-4-1	meenamearidad	.,	VAS
	ling to IEC/EN 609474-4-1	meenanicarioau		yes
EMC compatibility	ling to IEC/EN 609474-4-1	mechanicarioau		yes yes
EMC compatibility AC coil operating				-
EMC compatibility		min	V	-
EMC compatibility AC coil operating			•	yes
EMC compatibility AC coil operating	50/60Hz, 60Hz	min	V	yes 110
EMC compatibility AC coil operating Rated AC voltage at §	50/60Hz, 60Hz	min	V	yes 110
EMC compatibility AC coil operating Rated AC voltage at §	50/60Hz, 60Hz	min	V	yes 110
EMC compatibility AC coil operating Rated AC voltage at §	50/60Hz, 60Hz of 50/60Hz coil powered at 50Hz	min	V V W	yes 110 125 80
EMC compatibility AC coil operating Rated AC voltage at §	50/60Hz, 60Hz of 50/60Hz coil powered at 50Hz pick-up	min max	V V	yes 110 125
EMC compatibility AC coil operating Rated AC voltage at §	50/60Hz, 60Hz of 50/60Hz coil powered at 50Hz	min max min max	V V %Us %Us	yes 110 125 80 110
EMC compatibility AC coil operating Rated AC voltage at §	50/60Hz, 60Hz of 50/60Hz coil powered at 50Hz pick-up	min max min max min	V V %Us %Us %Us	yes 110 125 80 110 20
EMC compatibility AC coil operating Rated AC voltage at §	50/60Hz, 60Hz of 50/60Hz coil powered at 50Hz pick-up drop-out	min max min max	V V %Us %Us	yes 110 125 80 110
EMC compatibility AC coil operating Rated AC voltage at §	50/60Hz, 60Hz of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz	min max min max min	V V %Us %Us %Us	yes 110 125 80 110 20
EMC compatibility AC coil operating Rated AC voltage at §	50/60Hz, 60Hz of 50/60Hz coil powered at 50Hz pick-up drop-out	min max min max min max	V V %Us %Us %Us %Us	yes 110 125 80 110 20 60
EMC compatibility AC coil operating Rated AC voltage at §	50/60Hz, 60Hz of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz	min max min max min max min max	V V %Us %Us %Us %Us	yes 110 125 80 110 20 60 80
EMC compatibility AC coil operating Rated AC voltage at §	50/60Hz, 60Hz of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up	min max min max min max	V V %Us %Us %Us %Us	yes 110 125 80 110 20 60
EMC compatibility AC coil operating Rated AC voltage at §	50/60Hz, 60Hz of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz	min max min max min max min max	V V VUs %Us %Us %Us %Us %Us	yes 110 125 80 110 20 60 80 110
EMC compatibility AC coil operating Rated AC voltage at §	50/60Hz, 60Hz of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up	min max min max min max min max min max	V V V %Us %Us %Us %Us %Us	yes 110 125 80 110 20 60 80 110 20 20 20
EMC compatibility AC coil operating Rated AC voltage at §	50/60Hz, 60Hz of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up drop-out	min max min max min max min max	V V VUs %Us %Us %Us %Us %Us	yes 110 125 80 110 20 60 80 110
EMC compatibility AC coil operating Rated AC voltage at §	50/60Hz, 60Hz of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up drop-out of 60Hz coil powered at 60Hz	min max min max min max min max min max	V V V %Us %Us %Us %Us %Us	yes 110 125 80 110 20 60 80 110 20 20 20
EMC compatibility AC coil operating Rated AC voltage at §	50/60Hz, 60Hz of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up drop-out	min max min max min max min max min max	V V V %Us %Us %Us %Us %Us	yes 110 125 80 110 20 60 80 110 20 20 20
EMC compatibility AC coil operating Rated AC voltage at §	50/60Hz, 60Hz of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up drop-out of 60Hz coil powered at 60Hz	min max min max min max min max min max min max	V V V %Us %Us %Us %Us %Us %Us %Us	yes 110 125 80 110 20 60 80 110 20 60 80 110 20 60
EMC compatibility AC coil operating Rated AC voltage at §	50/60Hz, 60Hz of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up drop-out of 60Hz coil powered at 60Hz	min max min max min max min max min max min max min max	V V V %Us %Us %Us %Us %Us %Us %Us	yes 110 125 80 110 20 60 80 110 20 60 80 110 20 60 80 80 110 20 60 80 80 110 80 80 110 80 80 80 80 80 80 80 80 80 8
EMC compatibility AC coil operating Rated AC voltage at §	50/60Hz, 60Hz of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up drop-out of 60Hz coil powered at 60Hz pick-up	min max min max min max min max min max min max min max	V V V %Us %Us %Us %Us %Us %Us %Us	yes 110 125 80 110 20 60 80 110 20 60 80 110 20 60 80 80 110 20 60 80 80 110 80 80 110 80 80 80 80 80 80 80 80 80 8

of 50/60Hz coil powered at 50Hz



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

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110...125VAC/DC

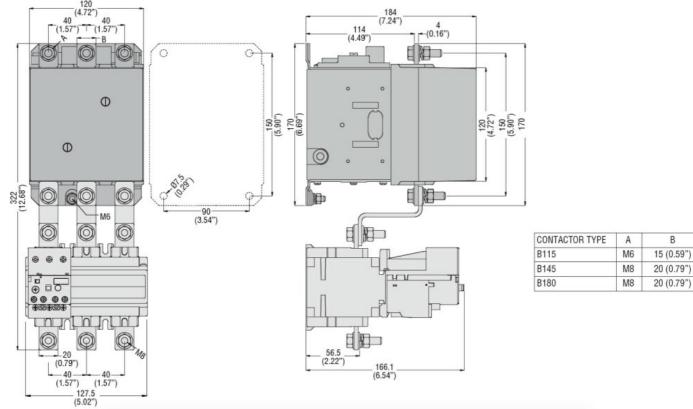
			in-rush	VA	300
			holding	VA	10
	of 50/60Hz coil po	wered at 60Hz			
	0. 00,001. <u>–</u> 00 po		in-rush	VA	300
			holding	VA	10
Dissipation at holding	-20°C 50Hz		libiding	W	10
DC coil operating	-20 C 30112			vv	10
DC rated control voltage	a 0				
	ge			N/	110
			min	V	110
			max	V	125
DC operating voltage					
	pick-up				
			min	%Us	80
			max	%Us	110
	drop-out				
			min	%Us	20
			max	%Us	60
Average coil consump	otion =20°C				
			in-rush	W	300
			holding	W	10
Max cycles frequency					
Mechanical operation				cycles/h	2400
Operating times					
Average time for Us c	ontrol				
	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	motor			
	,		at 480V	А	180
			at 600V	A	144
Yielded mechanical pe	erformance				
	for three-phase A	Cmotor			
			200/208V	HP	60
			200/200V 220/230V	HP	75
			575/600V	HP	150
General USE			57 5/000 V	111	100
	Contactor				
	CUMACIUI			۸	275
Chart aire it and all	- fuer 6001/		AC current	A	275
Short-circuit protectior					
	Standard fault				10
			Short circuit current	kA	10
			Fuse rating	A	500



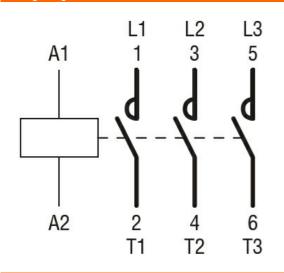
THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 185A, AC/DC COIL, 110...125VAC/DC

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		Fuse class		RK5
Ambient conditions				
Temperature				
	Operating temperature			
		min	°C	-50
		max	°C	70
	Storage temperature			
		min	°C	-60
		max	°C	80
Max altitude			m	3000
Resistance & Protec	tion			
Pollution degree				3
Dimensions				
120				



Wiring diagrams



Certifications and compliance

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The characteristics described in this document are subject to updates or modifications at any time. The descriptions, technical and functional information, illustrations and instructions in this brochure are purely illustrative, and are consequently not contractually binding

В



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,

Power contactor, AC switching