



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		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)	A	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)	000)/	1-147	05
	230V	kW	95
	400V 500V	kW kW	160
	690V	kW	213 298
IEC max current le in DC1 with L/R = 1ms with 1 poles in series	090 v	K V V	290
The current is in DCT with $L/R = 1115$ with T poles in series	75V	А	260
	110V	A	120
	220V	A	120
	330V	A	_
	460V	A	_
IEC max current le in DC1 with L/R = 1ms with 2 poles in series	1001		
	75V	А	260
	110V	A	170
	220V	A	150
	330V	A	_
	460V	А	_
IEC max current le in DC1 with L/R = 1ms with 3 poles in series			
	75V	А	260
	110V	А	170
	220V	А	170

ENERGY AND AUTOMATION

THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 185A, AC/DC COIL, 440...480VAC/DC

11B18000440

	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	А	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	А	140
	220V	А	100
	330V	А	-
	460V	A	_
IEC max current le in DC3-DC5 with L/R = 15ms with 3 poles in series			
	75V	A	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			100
	75V	A	180
	110V	A	160
	220V 330V	A	160
	460V	A	160 100
Short-time allowable current for 10s (IEC/EN60947-1)	400 V	A A	1500
Protection fuse		A	1500
Protection fuse	gG (IEC)	А	315
	aM (IEC)	A	200
Making capacity (RMS value)		A	1850
Breaking capacity at voltage		A	1650
Dieaning capacity at vollage	440V	А	1850
	440V 500V	A	1600
	690V	A	1480
Resistance per pole (average value)	030 V	 m?	0.3
Power dissipation per pole (average value)		111 !	0.0
i onor dissipation per pole (average value)	lth	W	20.3
	AC3	W	9.7
Tightening torque for terminals	703	vv	5.7
	min	Nm	18
	max	Nm	18
	min	Ibin	13.3
	max	Ibin	13.3
Tightening torque for coil terminal	Παλ		10.0
	min	Nm	1
	max	Nm	1
	Παλ	(NIII	ı



11B18000440 THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 185A, AC/DC COIL, 440...480VAC/DC

RRENT IE (AC3) = 185A, AC/DC CO 440480VAC/E				
min	Ibin	0 74		

		min	Ibin	0.74
		max	Ibin	0.74
Max number of wires si	multaneously connectable		Nr.	2
Conductor section				
	AWG/Kcmil			
		max		300 kcmil
	ion according to IEC/EN 60529			IP00
Mechanical features				
Operating position				
		normal		Vertical plan
		allowable		±30°
Fixing				Screw
Weight			g	5339
Conductor section				
	AWG/kcmil conductor section			
		max		300 kcmil
Operations				
Mechanical life			cycles	1000000
Electrical life			cycles	1000000
Safety related data				
Performance level B10	d according to EN/ISO 13489-1			
		rated load	cycles	1000000
		mechanical load	cycles	1000000
	g to IEC/EN 609474-4-1			yes
EMC compatibility				yes
AC coil operating				
Rated AC voltage at 50				
Rated AO voltage at 50	100HZ, 60HZ			
Nated AO Voltage at 50	νουπΖ, ουπΖ	min	V	440
	יסטחב, שחט	min max	V V	440 415
	of 50/60Hz coil powered at 50Hz			
		max	V	415
	of 50/60Hz coil powered at 50Hz	max min	V %Us	415 80
	of 50/60Hz coil powered at 50Hz pick-up	max	V	415
	of 50/60Hz coil powered at 50Hz	max min max	V %Us %Us	415 80 110
	of 50/60Hz coil powered at 50Hz pick-up	max min max min	V %Us %Us %Us	415 80 110 20
	of 50/60Hz coil powered at 50Hz pick-up drop-out	max min max	V %Us %Us	415 80 110
	of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz	max min max min	V %Us %Us %Us	415 80 110 20
	of 50/60Hz coil powered at 50Hz pick-up drop-out	max min max min max	V %Us %Us %Us %Us	415 80 110 20 60
	of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz	max min max min max min	V %Us %Us %Us %Us	415 80 110 20 60 80
	of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up	max min max min max	V %Us %Us %Us %Us	415 80 110 20 60
	of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz	max min max min max min max	V %Us %Us %Us %Us %Us	415 80 110 20 60 80 110
	of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up	max min max min max min max min	V %Us %Us %Us %Us %Us %Us	415 80 110 20 60 80 110 20
	of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up drop-out	max min max min max min max	V %Us %Us %Us %Us %Us	415 80 110 20 60 80 110
	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	max min max min max min max min	V %Us %Us %Us %Us %Us %Us	415 80 110 20 60 80 110 20
	of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up drop-out	max min max min max min max min max	V %Us %Us %Us %Us %Us %Us	415 80 110 20 60 80 110 20 60
	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	max min max min max min max min max min max	V %Us %Us %Us %Us %Us %Us %Us	415 80 110 20 60 80 110 20 60 80
	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	max min max min max min max min max	V %Us %Us %Us %Us %Us %Us	415 80 110 20 60 80 110 20 60
	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	max min max min max min max min max min max	V %Us %Us %Us %Us %Us %Us %Us %Us	415 80 110 20 60 80 110 20 60 80 110
AC operating voltage	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	max min max min max min max min max min max	V %Us %Us %Us %Us %Us %Us %Us	415 80 110 20 60 80 110 20 60 80

of 50/60Hz coil powered at 50Hz



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11B18000440 440...480VAC/DC

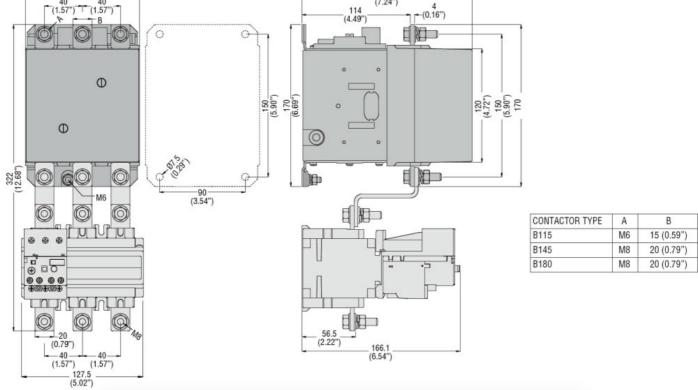
			in-rush	VA	300
			holding	VA	10
	of 50/60Hz coil po	wered at 60Hz			
			in-rush	VA	300
			holding	VA	10
Dissipation at holding :	=20°C 50Hz			W	10
DC coil operating					
DC rated control voltage	ge				
			min	V	440
			max	V	415
DC operating voltage					
	pick-up				
			min	%Us	80
			max	%Us	110
	drop-out				
			min	%Us	20
			max	%Us	60
Average coil consump	tion =20°C				
- '			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			
		0	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	А	144
Yielded mechanical pe					
	for three-phase AC	C motor			
			200/208V	HP	60
			220/230V	HP	75
			575/600V	HP	150
Conorol LIGE	_				
General USE	Contactor				
	Contactor		AC current	А	275
			AC current	73	
	n fuse, 600V		AG current		
General USE	n fuse, 600V		Short circuit current Fuse rating	kA A	10 500



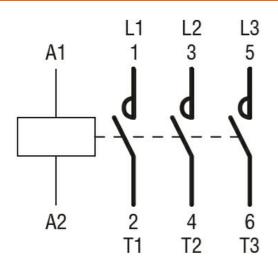
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			Fuse class		RK5
Ambient conditions					
Temperature					
	Operating temperature				
			min	°C	-50
			max	°C	70
	Storage temperature				
			min	°C	-60
			max	°C	80
Max altitude				m	3000
Resistance & Protec	tion				
Pollution degree					3
Dimensions					
120 (4.72") 40 (1.57") (1.57")		(7.24") 4 114 (7.24") 4 114 (7.24") 4			



Wiring diagrams



Certifications and compliance

11B18000440

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



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