



Product designation Product type designation			Power contactor B180
Contact characteristics			2.00
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		A	275
Operational current le			
	AC-1 (≤40°C)	A	275
	AC-1 (≤55°C)	A	250
	AC-1 (≤70°C) AC-3 (≤440V ≤55°C)	A	200
	AC-3 (S440V S55 C) AC-4 (400V)	A	185 65
Rated operational power AC-3 (T≤55°C)	AC-4 (400V)	A	00
	230V	kW	57
	400V	kW	100
	400V 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 $L/R \le 1$ ms with 1 poles in series			
	75V	A	260
	110V	A	120
	220V	A	_
	330V 460V	A A	-
IEC max current le in DC1 with $L/R \le 1$ ms with 2 poles in series	400 V	A	_
	75V	А	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			
	75V	А	260
	110V	А	170
	220V	А	170

electric ENERGY AND AUTOMATION

THREE-POLE CONTACTOR, IEC OPERATING CURREN IL, (/ 5) 440...480VAC/DC

	11	B1800	0440
IT IE (AC3)	= 185A,	AC/DC	COIL,

	330V	А	150
	460V	А	_
IEC max current le in DC1 with $L/R \le 1$ ms with 4 poles in series			
	75V	А	260
	110V	А	170
	220V	А	170
	330V	А	170
	460V	A	150
IEC max current le in DC3-DC5 with L/R \leq 15ms with 1 poles in series			
	75V	A	180
	110V	A	90
	220V	A	_
	330V	A	_
$I_{\rm C}$ may summat be in DC2 DCE with $1/D < 45$ ms with 2 ms less in series	460V	A	_
IEC max current le in DC3-DC5 with L/R \leq 15ms with 2 poles in series	75\/	٨	190
	75V 110V	A	180 140
	220V	A A	100
	330V	A	100
	460V	A	_
IEC max current le in DC3-DC5 with L/R \leq 15ms with 3 poles in series	4007	~	
	75V	А	180
	110V	A	160
	220V	A	140
	330V	A	100
	460V	А	_
IEC max current le in DC3-DC5 with $L/R \le 15$ ms with 4 poles in series			
	75V	А	180
	110V	А	160
	220V	А	160
	330V	А	160
	460V	Α	100
Short-time allowable current for 10s (IEC/EN60947-1)		Α	1500
Protection fuse			
	gG (IEC)	А	315
	aM (IEC)	A	200
Making capacity (RMS value)		A	1850
Breaking capacity at voltage			
	440V	А	1850
	500V	A	1600
	690V	<u>A</u>	1480
Resistance per pole (average value)		mΩ	0.3
Power dissipation per pole (average value)	1.1	147	00.0
	Ith	W	20.3
Tightoning torque for terminels	AC-3	W	9.7
Tightening torque for terminals		Nina	10
	min	Nm Nm	18 18
	max min	Nm Ibin	18
	max	Ibin	13.3
Tightening torque for coil terminal	Παλ		10.0
	min	Nm	1
	max	Nm	1
	Παλ		ı



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

RENT IE (/	4C3) = ⁻	185A, AC/DC COIL, 440480VAC/DC	
min	lhin	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
F ining a		allowable		±30°
Fixing				Screw
Weight			g	5339
Conductor section				
	AWG/kcmil conductor section			
Operatione		max		300 kcmil
Operations Mechanical life			eveloe	10000000
Electrical life			cycles	1000000
Safety related data			cycles	100000
	d according to EN/ISO 13489-1			
	a according to EN/150 15408-1	rated load	cycles	1000000
		mechanical load	cycles	10000000
Mirror contats accordin	g to IEC/EN 609474-4-1	mechanical idau	0,0100	yes
EMC compatibility	g to 120/211 0034/4-4-1			yes
AC coil operating				yes
	/60Hz, 60Hz	min	V	440
	/60Hz, 60Hz	min max	V V	440 415
Rated AC voltage at 50	/60Hz, 60Hz	min max	V V	440 415
Rated AC voltage at 50				
Rated AC voltage at 50	of 50/60Hz coil powered at 50Hz			
Rated AC voltage at 50			V	415
Rated AC voltage at 50	of 50/60Hz coil powered at 50Hz	maxmin	V %Us	
	of 50/60Hz coil powered at 50Hz pick-up	max	V	415 80
Rated AC voltage at 50	of 50/60Hz coil powered at 50Hz	maxmin	V %Us	415 80
Rated AC voltage at 50	of 50/60Hz coil powered at 50Hz pick-up	max min max	V %Us %Us	415 80 110
Rated AC voltage at 50	of 50/60Hz coil powered at 50Hz pick-up drop-out	max min max min	V %Us %Us %Us	415 80 110 20
Rated AC voltage at 50	of 50/60Hz coil powered at 50Hz pick-up	max min max min	V %Us %Us %Us	415 80 110 20
Rated AC voltage at 50	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
Rated AC voltage at 50	of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz	max min max min max	V %Us %Us %Us %Us	415 80 110 20 60
Rated AC voltage at 50	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
Rated AC voltage at 50	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	V %Us %Us %Us %Us	415 80 110 20 60 80
Rated AC voltage at 50	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	V %Us %Us %Us %Us %Us	415 80 110 20 60 80 110
Rated AC voltage at 50	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
Rated AC voltage at 50	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	V %Us %Us %Us %Us %Us %Us	415 80 110 20 60 80 110 20
Rated AC voltage at 50	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
Rated AC voltage at 50	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	V %Us %Us %Us %Us %Us %Us	415 80 110 20 60 80 110 20 60
Rated AC voltage at 50	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
Rated AC voltage at 50	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



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

11B18000440 440...480VAC/DC

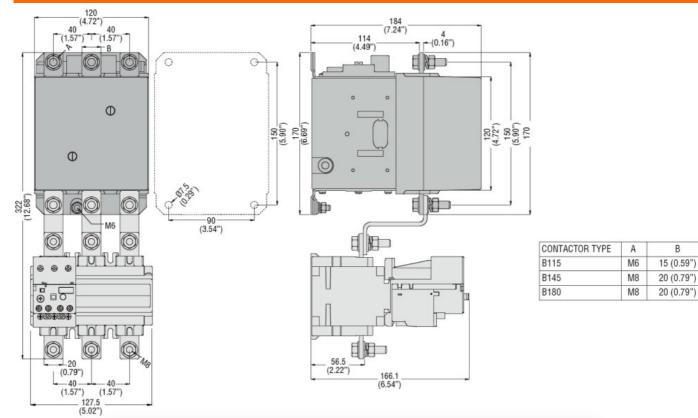
			in-rush	VA	300
			holding	VA	10
	of 50/60Hz coil p	owered at 60Hz			
	01 00/00112 0011 p		in-rush	VA	300
			holding	VA	10
Dissipation at holding :	≤20°C 50Hz			W	10
DC coil operating					
DC rated control voltag	ge				
			min	V	440
			max	V	415
DC operating voltage					
	pick-up				
			min	%Us	80
			max	%Us	110
	drop-out		Пах	/000	110
			min	%Us	20
				%Us %Us	
A			max	7005	60
Average coil consump	nion ≤20°C		<u>.</u>		
			in-rush	W	300
			holding	W	10
Max cycles frequency					
Mechanical operation				cycles/h	2400
Operating times					
Average time for Us co	ontrol				
Ū	in AC				
		Closing NO			
		clocking i to	min	ms	60
			max	ms	100
			IIIdA	1115	100
		Opening NO			05
			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 A	C motor			
			at 480V	А	180
			at 400V	A	144
			arouuv	~	1-1-1
Violdod mochanical na	vrformanco				
Yielded mechanical pe		\C motor			
Yielded mechanical pe	erformance for three-phase A	AC motor			00
Yielded mechanical pe		AC motor	200/208V	HP	60
Yielded mechanical pe		AC motor	200/208∨ 220/230∨	HP	75
		AC motor	200/208V		
Yielded mechanical pe		AC motor	200/208∨ 220/230∨	HP	75
		AC motor	200/208∨ 220/230∨	HP	75
	for three-phase A	AC motor	200/208V 220/230V 575/600V	HP HP	75 150
General USE	for three-phase A	AC motor	200/208∨ 220/230∨	HP	75
General USE	for three-phase A Contactor	AC motor	200/208V 220/230V 575/600V	HP HP	75 150
General USE	for three-phase A	AC motor	200/208V 220/230V 575/600V AC current	HP HP A	75 150 275
	for three-phase A Contactor	AC motor	200/208V 220/230V 575/600V	HP HP	75 150



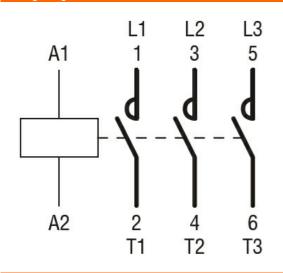
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		Fuse class		RK5
Ambient conditions				
Temperature				
	Operating temperature			
		min	°C	-50
		max	°C	70
	Storage temperature			
		min	°C	-60
		max	°C	80
Max altitude			m	3000
Resistance & Protec	ction			
Pollution degree				3
Dimensions				



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