## BF8000A400



THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 80A, AC COIL 50/60HZ, 400VAC



Product designation			Power contactor
Product type designation			BF80
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	115
Operational current le			
	AC-1 (≤40°C)	А	115
	AC-1 (≤55°C)	А	95
	AC-1 (≤70°C)	А	80
	AC-3 (≤440V ≤55°C)	А	80
	AC-4 (400V)	Α	38
Rated operational power AC-3 (T≤55°C)			
	230V	kW	22
	400V	kW	45
	415V	kW	45
	440V	kW	45
	500V	kW	55
	690V	kW	55
	1000V	kW	37
Rated operational current AC-3 (T≤55°C)			
	230V	A	80
	400V	A	80
	415V	A	80
	440V	A	80
	500V	A	78
	690V	A	57
	1000V	A	28
Rated operational power AC-1 (T≤40°C)			
	230V	kW	43
	400V	kW	76
	500V	kW	95
	690V	kW	120
IEC max current le in DC1 with $L/R \le 1$ ms with 1 poles in series			
	≤24V	А	70
	48V	А	60
	75V	А	60
	110V	А	8
	220V	A	_
IEC max current le in DC1 with $L/R \le 1$ ms with 2 poles in series			
	≤24V	A	100

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	48V	А	100
	75V	А	100
	110V	А	80
	220V	Α	9
IEC max current le in DC1 with $L/R \le 1$ ms with 3 poles in series			
	≤24V	Α	100
	48V	А	100
	75V	А	100
	110V	А	85
	220V	Α	95
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series			
	≤24V	А	100
	48V	Α	100
	75V	Α	100
	110V	А	100
	220V	Α	115
IEC max current le in DC3-DC5 with $L/R \le 15$ ms with 1 poles in series			
	≤24V	А	40
	48V	А	30
	75V	А	30
	110V	А	3
	220V	А	_
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series			
	≤24V	А	60
	48V	А	50
	75V	А	50
	110V	А	40
	220V	А	5
IEC max current le in DC3-DC5 with $L/R \le 15$ ms with 3 poles in series			
	≤24V	А	80
	48V	А	70
	75V	А	70
	110V	А	60
	220V	А	64
IEC max current le in DC3-DC5 with $L/R \le 15$ ms with 4 poles in series			
· ·	≤24V	А	90
	48V	A	90
	75V	A	90
	110V	A	75
	220V	A	80
Short-time allowable current for 10s (IEC/EN60947-1)		A	640
Protection fuse			
	gG (IEC)	А	125
	aM (IEC)	A	80
Making capacity (RMS value)	(	A	800
Breaking capacity at voltage		, (	
Ereaning outputty at totage	440V	А	640
	440V 500V	A	625
	690V	A	456
Resistance per pole (average value)	030 v	 mΩ	0.6
Power dissipation per pole (average value)		11152	0.0
rowei uissipalion pei pole (avelage value)	lth	W	7.0
			7.9
Tightoning targue for terminals	AC-3	W	3.8
Tightening torque for terminals			

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



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min Nm 4 5 max Nm Ibin 2.95 min lbin 3.69 max Tightening torque for coil terminal Nm 0.8 min Nm 1 max Ibin 0.8 min Ibin 0.74 max Max number of wires simultaneously connectable Nr. 2 Conductor section AWG/Kcmil 2 max Flexible w/o lug conductor section mm<sup>2</sup> 1.5 min mm<sup>2</sup> 35 max Flexible c/w lug conductor section min mm<sup>2</sup> 1.5 mm<sup>2</sup> 35 max Power terminal protection according to IEC/EN 60529 IP20 front Mechanical features Operating position normal Vertical plan ±30° allowable Screw / DIN rail Fixing 35mm Weight 1020 g Conductor section AWG/kcmil conductor section 2 max Operations Mechanical life 15000000 cycles Electrical life cycles 1300000 Safety related data Performance level B10d according to EN/ISO 13489-1 1300000 rated load cycles 15000000 mechanical load cycles Mirror contats according to IEC/EN 609474-4-1 yes EMC compatibility yes AC coil operating Rated AC voltage at 50/60Hz V 400 AC operating voltage of 50/60Hz coil powered at 50Hz pick-up %Us 80 min %Us 110 max drop-out %Us 20 min %Us 55 max of 50/60Hz coil powered at 60Hz pick-up min %Us 85 max %Us 110



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ENT IE (AC3) = 80A	AC COIL	50/60HZ

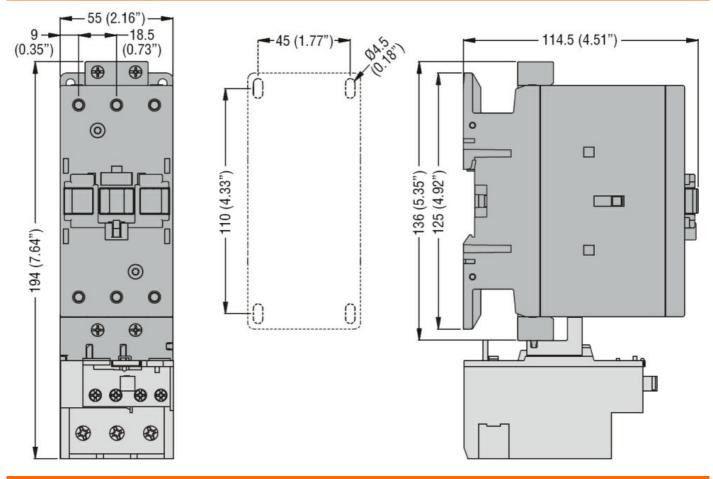
	drop-out			
		min	%Us	40
		max	%Us	55
AC average coil cons	umption at 20°C		,	
, contracting contraction	of 50/60Hz coil powered at 50Hz			
		in-rush	VA	210
		holding	VA	15
	of 50/60Hz coil powered at 60Hz			
		in-rush	VA	195
		holding	VA	13
	of 60Hz coil powered at 60Hz			
		in-rush	VA	210
		holding	VA	15
Dissipation at holding	<20°C 50Hz	nording	W	5
Max cycles frequency				0
Mechanical operation			cycles/h	3600
Operating times			Cyclc3/11	3000
Average time for Us c	ontrol			
werage and for US C	in AC			
	Closing NO			
		min	ms	12
		max	ms	28
		IIIdX	1115	20
	Opening NO	min	-	0
		min	ms	8
		max	ms	22
	in DC			
	Closing NO			40
		min	ms	40
		max	ms	85
	Opening NO			
		min	ms	20
		max	ms	55
UL technical data				
Full-load current (FLA	) for three-phase AC motor	( (00) (		
		at 480V	A	77
	-	at 600V	A	77
Yielded mechanical p				
	for three-phase AC motor			
		200/208V	HP	25
		220/230V	HP	30
		460/480V	HP	60
		575/600V	HP	75
General USE				
	Contactor			
		AC current	А	115
Short-circuit protection	n fuse, 600V			
	High fault			
		Short circuit current	kA	100
		Fuse rating	А	200
		Fuse class		J
	Standard fault			
		Short circuit current	kA	10
		Fuse rating	А	200
		Fuse class		RK5
				-



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Ambient conditions Temperature

remperature					
	Operating temperature				
		min	°C	-50	
		max	°C	70	
	Storage temperature				
		min	°C	-60	
		max	°C	80	
Max altitude			m	3000	
Resistance & Prote	ection				
Pollution degree				3	
Dimensions					

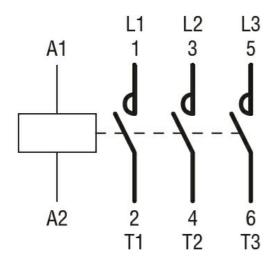


## Wiring diagrams

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## Certifications and compliance

Compliance	
	CSA C22.2 n° 60947-1
	CSA C22.2 n° 60947-4-1
	IEC/EN/BS 60947-1
	IEC/EN/BS 60947-4-1
	UL 60947-1
	UL 60947-4-1
Certificates	
	CCC
	cULus
ETIM classification	

ETIM 8.0

EC000066 -Power contactor, AC switching