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Product designation			Power contacto
Product type designation			BF80
Contact characteristics			
Number of poles		Nr.	4
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	115
Operational current le			
	AC-1 (≤40°C)	A	115
	AC-1 (≤55°C)	A	95
	AC-1 (≤70°C)	A	80
	AC-3 (≤440V ≤55°C)	A	80
	AC-4 (400V)	A	38
Rated operational power AC-1 (T≤40°C)	0001/	1.1.4.7	40
	230V	kW	43
	400V	kW	76 05
	500V 690V	kW	95 120
IEC max current le in DC1 with $L/R \le 1$ ms with 1 poles in series	090 V	kW	120
	≤24V	А	70
	48V	A	60
	48V 75V	A	60
	110V	A	8
	220V	A	-
IEC max current le in DC1 with $L/R \le 1$ ms with 2 poles in series	2201		
	≤24V	А	100
	48V	A	100
	75V	А	100
	110V	A	80
	220V	А	9
IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series			
	≤24V	А	100
	48V	А	100
	75V	А	100
	110V	А	85
	220V	А	95
IEC max current le in DC1 with $L/R \le 1$ ms with 4 poles in series			
	≤24V	А	100
	48V	А	100
	75V	А	100
	110V	А	100
	220V	А	115



IEC max current le in	DC3-DC5 with L/R $\leq$ 15ms with 1 poles in series			
		≤24V	А	40
		48V	А	30
		75V	А	30
		110V	А	3
		220V	A	_
IEC max current le in	DC3-DC5 with L/R $\leq$ 15ms with 2 poles in series	220 V		
		≤24V	۸	60
			A	60 50
		48V	A	50
		75V	A	50
		110V	A	40
		220V	A	5
IEC max current le in	DC3-DC5 with L/R $\leq$ 15ms with 3 poles in series			
		≤24V	Α	80
		48V	А	70
		75V	А	70
		110V	A	60
		220V	A	64
IFC may current le in	DC3-DC5 with L/R $\leq$ 15ms with 4 poles in series	220 V	/ \	~ '
	$DC5-DC5$ with $L/K \leq 15115$ with 4 poles in series	<2417	٨	00
		≤24V	A	90
		48V	A	90
		75V	А	90
		110V	A	75
		220V	Α	80
Short-time allowable of	current for 10s (IEC/EN60947-1)		А	640
Protection fuse				
		gG (IEC)	А	125
		aM (IEC)	А	80
Making capacity (RMS	Svalue)		A	800
Breaking capacity at v				000
Dieaking capacity at v	onage	440\/	۸	640
		440V	A	640
		500V	A	625
		690V	A	456
Resistance per pole (a			mΩ	0.6
Power dissipation per	pole (average value)			
		lth	W	7.9
		AC3	W	3.8
Tightening torque for t	terminals			
		min	Nm	4
		max	Nm	5
		min	Ibin	2.95
			Ibin	
Tightoning torough to	acil tarminal	max	חוטו	3.69
Tightening torque for o	conterminal			
		min	Nm	0.8
		max	Nm	1
		min	lbin	0.8
		max	lbin	0.74
Max number of wires	simultaneously connectable		Nr.	2
Conductor section				
	AWG/Kcmil			
		max		2
	Flexible w/o lug conductor section	Παλ		<u> </u>
	I TEVIDIE MAD INA COLUMNIOL SECTION		mm <sup>2</sup>	1 5
		min	mm²	1.5



CONTACTEUR BF80T4A, 4P (NO), 115A AC1, 230V 50/60HZ

		max	mm²	35
	Flexible c/w lug conductor section			
	-	min	mm²	1.5
		max	mm²	35
Power terminal protect	ction according to IEC/EN 60529			IP20 front
Mechanical features				
Operating position				
		normal		Vertical plan
		allowable		±30°
Fixing				Screw / DIN rail 35mm
Weight			g	1240
Conductor section				
	AWG/kcmil conductor section			
		max		2
Operations				
Mechanical life			cycles	15000000
Electrical life			cycles	1300000
Safety related data				
Performance level B1	10d according to EN/ISO 13489-1			
		rated load	cycles	1300000
		mechanical load	cycles	15000000
	ing to IEC/EN 609474-4-1			yes
EMC compatibility				yes
AC coil operating				
Rated AC voltage at 8			V	230
AC operating voltage				
	of EO/COUT and now aread at EOUT			
	of 50/60Hz coil powered at 50Hz pick-up			
		min	%Us	80
		min max	%Us %Us	80 110
			%Us	110
	pick-up		%Us %Us	110 20
	pick-up drop-out	max	%Us	110
	pick-up drop-out of 50/60Hz coil powered at 60Hz	max	%Us %Us	110 20
	pick-up drop-out	max min max	%Us %Us %Us	110 20 55
	pick-up drop-out of 50/60Hz coil powered at 60Hz	max min max min	%Us %Us %Us %Us	110 20 55 85
	pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up	max min max	%Us %Us %Us	110 20 55
	pick-up drop-out of 50/60Hz coil powered at 60Hz	max min max min max	%Us %Us %Us %Us %Us	110 20 55 85 110
	pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up	max min max min max min	%Us %Us %Us %Us %Us	110 20 55 85 110 40
	pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up drop-out	max min max min max	%Us %Us %Us %Us %Us	110 20 55 85 110
AC average coil cons	pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up drop-out	max min max min max min	%Us %Us %Us %Us %Us	110 20 55 85 110 40
AC average coil cons	pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up drop-out	max min max min max min max	%Us %Us %Us %Us %Us %Us	110 20 55 85 110 40 55
AC average coil cons	pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up drop-out	max min max min max min max in-rush	%Us %Us %Us %Us %Us %Us %Us	110 20 55 85 110 40 55 210
AC average coil cons	pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up drop-out	max min max min max min max	%Us %Us %Us %Us %Us %Us	110 20 55 85 110 40 55
AC average coil cons	pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up drop-out	max min max min max min max in-rush holding	%Us %Us %Us %Us %Us %Us %Us %Us	110 20 55 85 110 40 55 210 15
AC average coil cons	pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up drop-out	max min max min max min max in-rush holding in-rush	%Us %Us %Us %Us %Us %Us %Us %Us %Us %Us	110 20 55 85 110 40 55 210 15 195
AC average coil cons	pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up drop-out umption at 20°C of 50/60Hz coil powered at 50Hz of 50/60Hz coil powered at 60Hz	max min max min max min max in-rush holding	%Us %Us %Us %Us %Us %Us %Us %Us	110 20 55 85 110 40 55 210 15
AC average coil cons	pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up drop-out	max min max min max min max in-rush holding in-rush holding	%Us %Us %Us %Us %Us %Us %Us VA VA VA VA	110 20 55 85 110 40 55 210 15 195 13
AC average coil cons	pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up drop-out umption at 20°C of 50/60Hz coil powered at 50Hz of 50/60Hz coil powered at 60Hz	max min max min max min max in-rush holding in-rush holding	%Us %Us %Us %Us %Us %Us %Us %Us %Us %Us	110 20 55 85 110 40 55 210 15 195 13 210
	pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up drop-out umption at 20°C of 50/60Hz coil powered at 50Hz of 50/60Hz coil powered at 60Hz of 60Hz coil powered at 60Hz	max min max min max min max in-rush holding in-rush holding	%Us %Us %Us %Us %Us %Us %Us %Us %Us %Us	110 20 55 85 110 40 55 210 15 195 13 210 15
Dissipation at holding	pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up drop-out umption at 20°C of 50/60Hz coil powered at 50Hz of 50/60Hz coil powered at 60Hz of 60Hz coil powered at 60Hz	max min max min max min max in-rush holding in-rush holding	%Us %Us %Us %Us %Us %Us %Us %Us %Us %Us	110 20 55 85 110 40 55 210 15 195 13 210
	pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up drop-out drop-out sumption at 20°C of 50/60Hz coil powered at 50Hz of 50/60Hz coil powered at 60Hz of 60Hz coil powered at 60Hz	max min max min max min max in-rush holding in-rush holding	%Us %Us %Us %Us %Us %Us %Us %Us %Us %Us	110 20 55 85 110 40 55 210 15 195 13 210 15 5

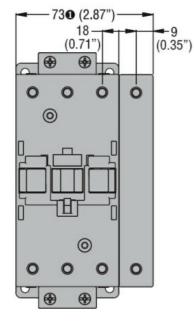
The characteristics described in this document are subject to updates or modifications at any time. The descriptions, technical and functional information, illustrations and instructions in this brochure are purely illustrative, and are consequently not contractually binding BF80T4A230

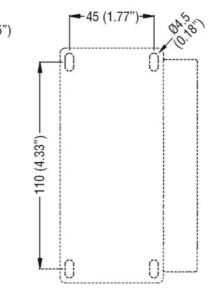


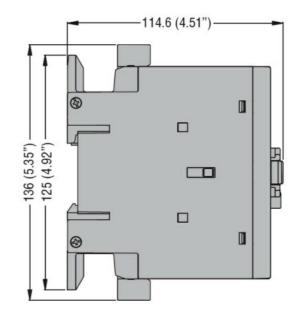
Operating times					
Average time for Us co	ntrol				
	in AC				
		Closing NO			
			min	ms	12
			max	ms	28
		Opening NO			
			min	ms	8
			max	ms	22
	in DC				
		Closing NO	min	ms	40
			max	ms	85
		Opening NO	Пах	mo	00
		opolingro	min	ms	20
			max	ms	55
UL technical data					
Full-load current (FLA)	for three-phase AC n	notor			
			at 480V	А	77
			at 600V	А	77
Yielded mechanical per	rformance				
	for three-phase AC	motor			
			200/208V	HP	25
			220/230V	HP	30
			460/480V	HP	60
			575/600V	HP	75
General USE					
	Contactor			^	445
Chart airquit protection	fuee 600\/		AC current	A	115
Short-circuit protection					
	High fault		Short circuit current	kA	100
			Fuse rating	A	200
			Fuse class	~	J
	Standard fault		1 000 01000		<u> </u>
			Short circuit current	kA	10
			Fuse rating	A	200
			Fuse class	·	RK5
Ambient conditions					
Temperature					
	Operating temperate	ure			
			min	°C	-50
			max	°C	70
	Storage temperature	Э			
			min	°C	-60
			max	°C	80
Max altitude				m	3000
Resistance & Protectio	n				<u>^</u>
Pollution degree					3
Dimensions [mm (in)]					



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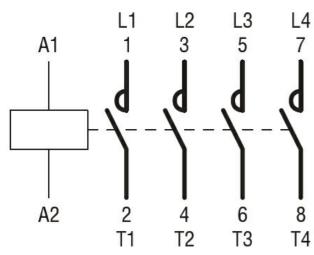






BF80T2 82mm/3.23"

Wiring diagrams



## 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	on	
ETIM 8.0		EC000066 - Power contactor, AC switching

BF80T4A230