



Product designation			Power contactor
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)	А	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 current AC-3 (T≤55°C)		7.	
	230V	А	80
	400V	A	80
	400V 415V	A	80
	440V	A	80
	500V	A	78
	690V	A	57
	1000V	A	28
Rated operational power AC-1 (T≤40°C)	10001	A	20
	230V	kW	43
	400V	kW	76
	400V 500V	kW	95
	690V	kW	120
Short-time allowable current for 10s (IEC/EN60947-1)	0901	A	640
Protection fuse		Α	040
FIDIECIIDITIUSE	gG (IEC)	А	125
	aM (IEC)	A	80
Making capacity (RMS value)		A	800
Breaking capacity at voltage		Α	000
Dieaking capacity at voltage	440V	А	640
	440V 500V	A	625
	690V	A	456
Resistance per pole (average value)	0901	mΩ	0.6
Power dissipation per pole (average value)		11122	0.0
rower upsipation per pole (average value)	Ith	W	7.9
	AC-3	W	7.9 3.8
Tightening torque for terminals	AC-3	vv	5.0
	min	Nim	Λ
	min	Nm Nm	4
	max	Nm	5



FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 115A, AC COIL 60HZ, 120VAC

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		min	Ibin	2.95
		max	Ibin	3.69
Tightening torque for a	coil terminal			
		min	Nm	0.8
		max	Nm	1
		min	Ibin	0.8
		max	Ibin	0.74
Max number of wires	simultaneously connectable		Nr.	2
Conductor section				
	AWG/Kcmil			
		max		2
	Flexible w/o lug conductor section			
		min	mm²	1.5
		max	mm²	35
	Flexible c/w lug conductor section	Пах		00
		min	mm²	1.5
		max	mm²	35
Power terminal protoc	ction according to IEC/EN 60529	IIIdX		IP20 front
Mechanical features				
Operating position				Vortical alar
		normal		Vertical plan
		allowable		±30°
Fixing				Screw / DIN rail
				35mm
Weight			g	1360
Conductor section				
	AWG/kcmil conductor section			
O		max		2
Operations				1
Mechanical life			cycles	1500000
Electrical life			cycles	1300000
Sototy rolated date				
	0d according to EN/ISO 13489-1			
	0d according to EN/ISO 13489-1	rated load	cycles	1300000
Performance level B1		rated load mechanical load	cycles cycles	15000000
Performance level B1 Mirror contats accordi	I Od according to EN/ISO 13489-1 ing to IEC/EN 609474-4-1		•	
Performance level B1 Mirror contats accordi EMC compatibility			•	15000000
Performance level B1 Mirror contats accordi EMC compatibility			•	15000000 YES
	ing to IEC/EN 609474-4-1		•	15000000 YES
Performance level B1 Mirror contats accordi EMC compatibility AC coil operating	ing to IEC/EN 609474-4-1 60Hz		cycles	15000000 YES yes
Performance level B1 Mirror contats accordi EMC compatibility AC coil operating Rated AC voltage at 6	ing to IEC/EN 609474-4-1 60Hz		cycles	15000000 YES yes
Performance level B1 Mirror contats accordi EMC compatibility AC coil operating Rated AC voltage at 6	ing to IEC/EN 609474-4-1 60Hz		cycles	15000000 YES yes
Performance level B1 Mirror contats accordi EMC compatibility AC coil operating Rated AC voltage at 6	ing to IEC/EN 609474-4-1 60Hz of 60Hz coil powered at 60Hz		cycles	15000000 YES yes
Performance level B1 Mirror contats accordi EMC compatibility AC coil operating Rated AC voltage at 6	ing to IEC/EN 609474-4-1 60Hz of 60Hz coil powered at 60Hz	mechanical load	V %Us	15000000 YES yes 120 80
Performance level B1 Mirror contats accordi EMC compatibility AC coil operating Rated AC voltage at 6	ing to IEC/EN 609474-4-1 60Hz of 60Hz coil powered at 60Hz pick-up	mechanical load	V	15000000 YES yes 120
Performance level B1 Mirror contats accordi EMC compatibility AC coil operating Rated AC voltage at 6	ing to IEC/EN 609474-4-1 60Hz of 60Hz coil powered at 60Hz	mechanical load	V V %Us %Us	15000000 YES yes 120 80 110
Performance level B1 Mirror contats accordi EMC compatibility AC coil operating Rated AC voltage at 6	ing to IEC/EN 609474-4-1 60Hz of 60Hz coil powered at 60Hz pick-up	mechanical load	v v %Us %Us %Us	15000000 YES yes 120 80 110 20
Performance level B1 Mirror contats accordi EMC compatibility AC coil operating Rated AC voltage at 6 AC operating voltage	ing to IEC/EN 609474-4-1 60Hz of 60Hz coil powered at 60Hz pick-up drop-out	mechanical load	V V %Us %Us	15000000 YES yes 120 80 110
Performance level B1 Mirror contats accordi EMC compatibility AC coil operating Rated AC voltage at 6 AC operating voltage	ing to IEC/EN 609474-4-1 50Hz of 60Hz coil powered at 60Hz pick-up drop-out	mechanical load	v v %Us %Us %Us	15000000 YES yes 120 80 110 20
Performance level B1 Mirror contats accordi EMC compatibility AC coil operating Rated AC voltage at 6 AC operating voltage	ing to IEC/EN 609474-4-1 60Hz of 60Hz coil powered at 60Hz pick-up drop-out	mechanical load	V V %Us %Us %Us %Us	15000000 YES yes 120 80 110 20 55
Performance level B1 Mirror contats accordi EMC compatibility AC coil operating Rated AC voltage at 6 AC operating voltage	ing to IEC/EN 609474-4-1 50Hz of 60Hz coil powered at 60Hz pick-up drop-out	mechanical load	V V %Us %Us %Us %Us %Us	15000000 YES yes 120 80 110 20 55 210
Performance level B1 Mirror contats accordi EMC compatibility AC coil operating Rated AC voltage at 6 AC operating voltage	ing to IEC/EN 609474-4-1 50Hz of 60Hz coil powered at 60Hz pick-up drop-out umption at 20°C of 60Hz coil powered at 60Hz	mechanical load	v v v v v v v v v v v v v v v v v v v	15000000 YES yes 120 80 110 20 55 210 15
Performance level B1 Mirror contats accordi EMC compatibility AC coil operating Rated AC voltage at 6	ing to IEC/EN 609474-4-1 50Hz of 60Hz coil powered at 60Hz pick-up drop-out umption at 20°C of 60Hz coil powered at 60Hz ≤20°C 50Hz	mechanical load	V V %Us %Us %Us %Us %Us	15000000 YES yes 120 80 110 20 55 210

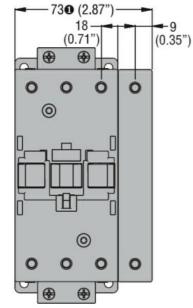


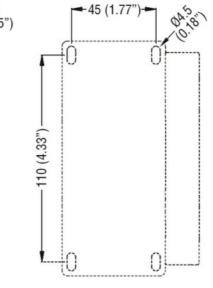
Mechanical operation cycles/h 3600 Operating times Average time for Us control in AC Closing NO 12 min ms max ms 28 **Opening NO** 8 min ms 22 max ms **Closing NC** 11 min ms max ms 29 **Opening NC** min 6 ms max ms 14 in DC **Closing NO** 40 min ms 85 max ms **Opening NO** min ms 20 55 max ms UL technical data Full-load current (FLA) for three-phase AC motor at 480V А 77 at 600V A 77 Yielded mechanical performance for three-phase AC motor 200/208V HP 25 220/230V ΗP 30 460/480V HP 60 575/600V HP 75 General USE Contactor AC current А 115 Ambient conditions Temperature Operating temperature °C -50 min °C max 70 Storage temperature °C -60 min °C 80 max Max altitude 3000 m Resistance & Protection Pollution degree 3 Dimensions

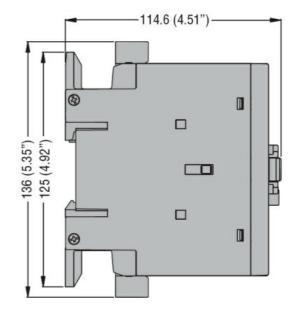
BF80T2A12060



BF80T2A12060 FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 115A, AC COIL 60HZ, 120VAC

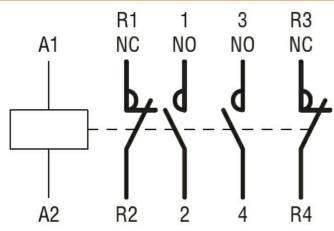






1 BF80T2 82mm/3.23"

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		
ETIM 8.0		EC000066 - Power contactor, AC switching