



Product designation Product type designation			Power contactor BF80
Contact characteristics			Di 00
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		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)	А	38
Rated operational current AC-3 (T≤55°C)	, , , , , , , , , , , , , , , , ,		
	230V	А	80
	400V	А	80
	415V	А	80
	440V	А	80
	500V	А	78
	690V	А	57
	1000V	А	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	А	100
	48V	А	100
	75V	А	100
	110V	А	80
	220V	A	9
IEC max current le in DC1 with $L/R \le 1$ ms with 3 poles in series			
	≤24V	А	100
	48V	А	100
	75V	А	100



BF80T4A22060 FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 115A, AC COIL 60HZ, 220VAC

	110V	А	85
	220V	А	95
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series			
	≤24V	А	100
	48V	А	100
	75V	А	100
	110V	А	100
	220V	Α	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	Α	_
IEC max current le in DC3-DC5 with L/R \leq 15ms with 2 poles in series			
	≤24V	А	60
	48V	А	50
	75V	А	50
	110V	А	40
	220V	A	5
IEC max current le in DC3-DC5 with L/R \leq 15ms with 3 poles in series			
	≤24V	А	80
	48V	А	70
	75V	A	70
	110V	Α	60
	220V	Α	64
IEC max current le in DC3-DC5 with L/R \leq 15ms with 4 poles in series			
	≤24V	A	90
	48V	A	90
	75V	A	90
	110V	A	75
Object times allowed to surrout (as 40s (IEO/EN00047.4)	220V	A	80
Short-time allowable current for 10s (IEC/EN60947-1)		A	640
Protection fuse		•	405
	gG (IEC)	A	125
	aM (IEC)	A	80
Making capacity (RMS value)		A	800
Breaking capacity at voltage	44017	^	640
	440V	A	640 625
	500V	A	625
Posistance per polo (averago valuo)	690V	A 	456
Resistance per pole (average value)		mΩ	0.6
Power dissipation per pole (average value)	141-	147	7.0
	Ith	W	7.9
Tichtoning torque for terminale	AC-3	W	3.8
Tightening torque for terminals		N I.er-	4
	min	Nm	4
	max	Nm	5
	min	lbin Ibin	2.95
Tightoning torque for coil terminal	max	Ibin	3.69
Tightening torque for coil terminal		N	0.0
	min	Nm Nm	0.8
	max	Nm	1



BF80T4A22060 FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 115A, AC COIL 60HZ, 220VAC

		min	lhin	0.8
		min max	lbin Ibin	0.8 0.74
Max number of wires	simultaneously connectable	Пал	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		2	
		min	mm²	1.5
Bower terminal protect	ction according to IEC/EN 60529	max	mm²	35 IP20 front
Mechanical features	clibit according to IEC/EIN 80529			IP20 ITOIIL
Operating position				
opolating poolition		normal		Vertical plan
		allowable		±30°
				Screw / DIN rail
Fixing				35mm
Weight			g	1240
Conductor section				
	AWG/kcmil conductor section			_
		max		2
Operations			avalaa	4500000
Mechanical life Electrical life			cycles	15000000 1300000
Safety related data			cycles	1300000
	10d according to EN/ISO 13489-1			
		rated load	cycles	1300000
		mechanical load	cycles	15000000
Mirror contats accord	ing to IEC/EN 609474-4-1		-	yes
EMC compatibility				yes
AC coil operating				
Rated AC voltage at 6			V	220
AC operating voltage				
	of 60Hz coil powered at 60Hz			
	pick-up	an in	0/110	0.0
		min	%Us %Us	80 110
	drop-out	max	/003	110
		min	%Us	20
		max	%Us	55
AC average coil cons	umption at 20°C			
	of 60Hz coil powered at 60Hz			
		in-rush	VA	210
		holding	VA	15
Dissipation at holding			W	5
Max cycles frequency				
Mechanical operation			cycles/h	3600
Operating times				
Average time for Us of	Johnol			
	in AC Closing NO			

BF80T4A22060



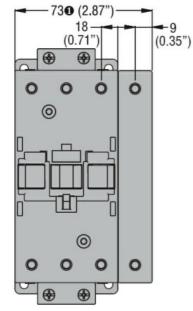
FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 115A, AC COIL 60HZ,

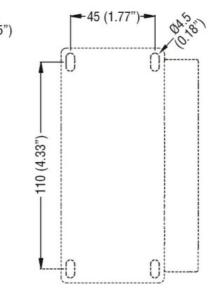
220VAC

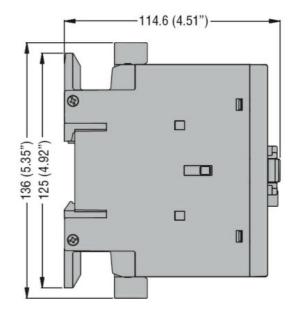
Full-load current (FLA) for three-phase AC motor at 480V A 77 at 600V A 77 Yielded mechanical performance for three-phase AC motor 200/208V HP 25 220/230V HP 30 460/480V HP 60 575/600V HP 75 60 60 575/600V HP 75 General USE Contactor A 115 115 115 Short-circuit protection fuse, 600V High fault Short circuit current KA 100 Fuse rating A 200 Fuse rating A 200 Standard fault Short circuit current KA 10 Fuse rating A 200 Ambient conditions K5 K5 K5 K5 K5 Ambient conditions K5 K5 K5 K5 Ambient conditions K6 K5 K5 Temperature min °C -50 K5 Ambient conditions K5 K5 K5 K5 Ambient conditions K5	ENERGY AND AUTOMATION						
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Yielded mechanical performance for three-phase AC motor $ \begin{array}{ccccccccccccccccccccccccccccccccccc$							
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Ambient conditions KA 100 Fuse rating Fuse class J Standard fault Short circuit current KA 10 Fuse rating A 200 Fuse rating A 200 Fuse rating A 200 Fuse class RK5 Ambient conditions Temperature Operating temperature Operating temperature Min °C -50 max °C 70 Storage temperature Min °C -60 max °C 80 Max altitude m 3000 Resistance & Protection Pollution degree 3							
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Fuse class J Standard fault Short circuit current kA 10 Fuse rating A 200 Fuse class RK5 Ambient conditions RK5 Temperature 0 Operating temperature min °C							
Standard fault Short circuit current kA 10 Fuse rating A 200 Fuse class RK5 Ambient conditions RK5 Temperature Operating temperature Operating temperature min °C Max altitude min °C 60 Max altitude m 3000 Resistance & Protection 3 3				•	A		
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Fuse class RK5 Ambient conditions Temperature Temperature Operating temperature Min °C -50 max °C 70 Storage temperature min °C -60 max °C 80 Max altitude m 3000 Resistance & Protection Pollution degree 3							
Ambient conditions Temperature Operating temperature min °C -50 max °C 70 Storage temperature min °C -60 max °C 80 Max altitude m 3000 Resistance & Protection 3					А		
Temperature Operating temperature min °C -50 max °C 70 Storage temperature min °C -60 max °C 80 Max altitude m 3000 Resistance & Protection 3	A			Fuse class		KK5	
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min °C -50 max °C 70 Storage temperature min °C -60 max °C 80 Max altitude Max altitude Max altitude Resistance & Protection Pollution degree 3	I emperature	. .					
max °C 70 Storage temperature min °C -60 max °C 80 Max altitude m 3000 Resistance & Protection Pollution degree 3		Operating temp	berature				
Storage temperature min °C -60 max °C 80 Max altitude m 3000 Resistance & Protection 3							
min °C -60 max °C 80 Max altitude m 3000 Resistance & Protection Pollution degree 3				max	°C	70	
max°C80Max altitudem3000Resistance & Protection3		Storage tempe	rature				
Max altitudem3000Resistance & Protection3				min			
Resistance & Protection Pollution degree 3				max	°C		
Pollution degree 3	Max altitude				m	3000	
	Resistance & Prote	ection					
	Pollution degree					3	
	Dimensions						



BF80T4A22060 FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 115A, AC COIL 60HZ, 220VAC

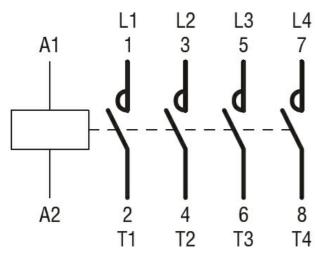






1 BF80T2 82mm/3.23"

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	on	
ETIM 8.0		EC000066 - Power contactor, AC switching