



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	Пах	A	115
Operational current le			110
	AC-1 (≤40°C)	А	115
	AC-1 (≤40 C) AC-1 (≤55°C)		95
	AC-1 (≤35 C) AC-1 (≤70°C)	A	80
	AC-3 (≤440V ≤55°C)	A	
	AC-3 (5440V 555 C) AC-4 (400V)	A	80
	AC-4 (400V)	A	38
Rated operational current AC-3 (T≤55°C)	2221		
	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
Short-time allowable current for 10s (IEC/EN60947-1)		А	640
Protection fuse			
	gG (IEC)	А	125
	aM (IEC)	А	80
Making capacity (RMS value)		А	800
Breaking capacity at voltage			
	440V	А	640
	500V	А	625
	690V	А	456
Resistance per pole (average value)		mΩ	0.6
Power dissipation per pole (average value)			
	Ith	W	7.9
	AC-3	Ŵ	3.8
Tightening torque for terminals		••	
	min	Nm	4
	max	Nm	5
	Παλ		5



BF80T2A46060 FOUR-POLE CONTACTOR, IEC OPERATING CURREN

NT ITH (AC1) = '	115A, AC CC	DIL 60HZ,
		460VAC

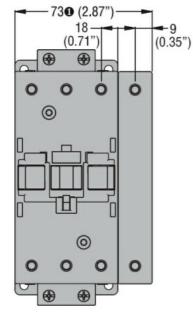
		min	Ibin	2.95
		max	Ibin	3.69
Tightening torque for	coil terminal			
		min	Nm	0.8
		max	Nm	1
		min	Ibin	0.8
		max	Ibin	0.74
	simultaneously connectable		Nr.	2
Conductor section				
	AWG/Kcmil			-
		max		2
	Flexible w/o lug conductor section			
		min	mm²	1.5
		max	mm²	35
	Flexible c/w lug conductor section			
		min	mm²	1.5
		max	mm²	35
	ction according to IEC/EN 60529			IP20 front
Mechanical features				
Operating position				
		normal		Vertical plan
		allowable		±30°
Fixing				Screw / DIN rail
Naiaht			~	35mm
Neight			g	1360
Conductor section	ANAC (correl conductor continu			
	AWG/kcmil conductor section			2
Operations		max		2
Mechanical life			cycles	15000000
Electrical life			cycles	1300000
Safety related data			eyelee	1000000
	10d according to EN/ISO 13489-1			
		rated load	cycles	1300000
			•	15000000
		mechanical load	cvcles	
Mirror contats accord	ling to IEC/EN 609474-4-1	mechanical load	cycles	
	ling to IEC/EN 609474-4-1	mechanical load	cycles	YES
EMC compatibility	ling to IEC/EN 609474-4-1	mechanical load	cycles	
EMC compatibility		mechanical load	•	YES yes
EMC compatibility AC coil operating Rated AC voltage at (60Hz	mechanical load	V	YES
EMC compatibility AC coil operating Rated AC voltage at (60Hz	mechanical load	•	YES yes
EMC compatibility AC coil operating Rated AC voltage at (60Hz of 60Hz coil powered at 60Hz	mechanical load	•	YES yes
EMC compatibility AC coil operating Rated AC voltage at (60Hz		V	YES yes 460
EMC compatibility AC coil operating Rated AC voltage at (60Hz of 60Hz coil powered at 60Hz	min	V %Us	YES yes 460 80
EMC compatibility AC coil operating Rated AC voltage at (60Hz of 60Hz coil powered at 60Hz pick-up		V	YES yes 460
EMC compatibility AC coil operating Rated AC voltage at (60Hz of 60Hz coil powered at 60Hz	min max	V %Us %Us	YES yes 460 80 110
EMC compatibility AC coil operating Rated AC voltage at (60Hz of 60Hz coil powered at 60Hz pick-up	min	V %Us %Us %Us	YES yes 460 80 110 20
EMC compatibility AC coil operating Rated AC voltage at 6 AC operating voltage	60Hz of 60Hz coil powered at 60Hz pick-up drop-out	min max min	V %Us %Us	YES yes 460 80 110
EMC compatibility AC coil operating Rated AC voltage at (60Hz of 60Hz coil powered at 60Hz pick-up drop-out	min max min	V %Us %Us %Us	YES yes 460 80 110 20
EMC compatibility AC coil operating Rated AC voltage at 6 AC operating voltage	60Hz of 60Hz coil powered at 60Hz pick-up drop-out	min max min max	V %Us %Us %Us %Us	YES yes 460 80 110 20 55
EMC compatibility AC coil operating Rated AC voltage at 6 AC operating voltage	60Hz of 60Hz coil powered at 60Hz pick-up drop-out	min max min max in-rush	V %Us %Us %Us	YES yes 460 80 110 20 55 210
EMC compatibility AC coil operating Rated AC voltage at 6 AC operating voltage	60Hz of 60Hz coil powered at 60Hz pick-up drop-out sumption at 20°C of 60Hz coil powered at 60Hz	min max min max	V %Us %Us %Us %Us	YES yes 460 80 110 20 55

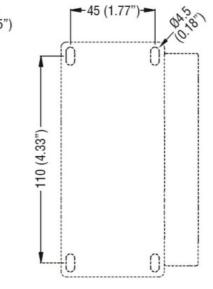


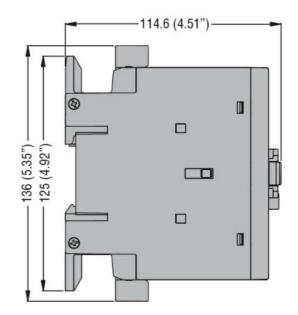
Mechanical operation				cycles/h	3600
Operating times					
Average time for Us co					
	in AC				
		Closing NO	min	-	10
			min	ms	12 28
		Opening NO	max	ms	20
			min	ms	8
			max	ms	22
		Closing NC	Пах	mo	
		Closing NO	min	ms	11
			max	ms	29
		Opening NC	Пах	me	20
		opogo	min	ms	6
			max	ms	14
	in DC				
		Closing NO			
		g	min	ms	40
			max	ms	85
		Opening NO		-	
		-1- 5 -	min	ms	20
			max	ms	55
UL technical data					
Full-load current (FLA)	for three-phase AC mot	or			
			at 480V	А	77
			at 600V	А	77
Yielded mechanical pe	rformance				
	for three-phase AC mo	otor			
			200/208V	HP	25
			220/230V	HP	30
			460/480V	HP	60
			575/600V	HP	75
General USE					
	Contactor				
			AC current	А	115
Ambient conditions					
Temperature					
	Operating temperature	9			
			min	°C	-50
			max	°C	70
	Storage temperature				
			min	°C	-60
			max	°C	80
Max altitude				m	3000
Resistance & Protectio	n				
Pollution degree					3
Dimensions					



BF80T2A46060 FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 115A, AC COIL 60HZ, 460VAC

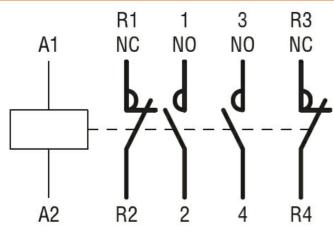






• BF80T2 82mm/3.23"

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		
	000	
	cULus	
ETIM classification		
ETIM 8.0		EC000066 - Power contactor, AC switching