



Product designation Power contact BF80 Contact characteristics BF80 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 400 115 Operational frequency max HZ 400 IEC Conventional frequency A 115 Operational current le AC-1 (≤40°C) A 115 Operational current le AC-1 (≤40°C) A 80 AC-1 (≤40°C) A 80 AC-3 (≤440V ≤55°C) A 80 AC-4 (400V) A 38 Rated operational current AC-3 (T≤55°C) 230V A 80 415V A 80 400V A 80 400V A 80 400V A 80 400V A 80 500V A 75 1000V A <t< th=""></t<>
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 400 115 Operational frequency A 115 115 Operational current le AC-1 (≤40°C) A 115 AC-1 (≤55°C) A 95 AC-1 (≤55°C) A Rated operational current AC-3 (T≤55°C) A 80 AC-4 (400V) A 38 Rated operational current AC-3 (T≤55°C) 230V A 80 400V 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 43 400V KW 43
Number of polesNr.4Rated insulation voltage Ui IEC/ENV1000Rated impulse withstand voltage UimpkV8Operational frequencyminHz25maxHz400IEC Conventional free air thermal current lthA115Operational current leAC-1 (≤40°C)A115AC-1 (≤50°C)A95AC-1 (≤50°C)A80AC-3 (≤440V > 55°C)A80AC-3 (≤440V)A38Rated operational current AC-3 (T≤55°C)230VA80440VA80415VA80500VA78690VA571000VA2880440VA80500VA28Rated operational power AC-1 (T≤40°C)230VkW43400VkW76230VkW43400VkW43400VkW95
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 (≤55°C) A 95 AC-3 (≤440V ≤55°C) A 80 AC-3 (≤440V ≤55°C) A 80 Rated operational current AC-3 (T≤55°C) 230V 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
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 (≤55°C) A 80 AC-3 (≤440V ≤55°C) A 80 AC-4 (400V) A 38 Rated operational current AC-3 (T<55°C)
Operational frequency min Hz 25 max Hz 400 400 IEC Conventional free air thermal current lth A 115 Operational current le AC-1 (≤40°C) A 115 AC-1 (≤55°C) A 95 AC-1 (≤55°C) A 80 AC-3 (≤440V ≤55°C) A 80 AC-4 (400V) A 38 Rated operational current AC-3 (T≤55°C) 230V A 80 440V 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
$\begin{array}{c cccc} \min & Hz & 25 \\ \max & Hz & 400 \\ \hline IEC \ Conventional free air thermal current lth & A & 115 \\ \hline Operational current le & & & & \\ & & & & & \\ & & & $
$\begin{array}{c c c c c c c c c c c c c c c c c c c $
$\begin{array}{c c c c c c c c c c c c c c c c c c c $
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 current AC-3 (T≤55°C) X 80 400V 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
$\begin{array}{cccccccccccccccccccccccccccccccccccc$
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) A 80 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 43 400V kW 95
AC-1 (≤70°C) A 80 AC-3 (≤440∨ ≤55°C) A 80 AC-4 (400∨) A 38 Rated operational current AC-3 (T≤55°C) 230∨ A 80 400∨ A 80 400∨ A 80 400∨ A 80 415∨ A 80 440∨ A 80 440∨ A 80 500∨ A 78 690∨ A 57 1000∨ A 28 80 400∨ 43 Rated operational power AC-1 (T≤40°C) 230∨ kW 43 400∨ kW 76 500∨ kW 95
AC-3 (≤440V ≤55°C) A 80 AC-4 (400V) A 38 Rated operational current AC-3 (T≤55°C) 230V A 80 400V A 80 400V A 80 440V A 80 440V A 80 500V A 78 690V A 57 1000V A 28 80 400V KW 43 Rated operational power AC-1 (T≤40°C) 230V kW 43 400V kW 76
AC-4 (400V) A 38 Rated operational current AC-3 (T≤55°C) 230V A 80 400V A 80 415V A 80 415V A 80 440V A 80 500V A 78 690V A 57 1000V A 28 80 80 80 Rated operational power AC-1 (T≤40°C) 230V kW 43 400V kW 76 500V kW 95
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
230V A 80 400V A 80 415V A 80 440V 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
400V A 80 415V A 80 440V 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
415V A 80 440V 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
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
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 A 57 1000V A 28 Rated operational power AC-1 (T≤40°C) 230V kW 43 400V kW 76 500V kW 95
1000V A 28 Rated operational power AC-1 (T≤40°C) 230V kW 43 400V kW 76 500V kW 95
Rated operational power AC-1 (T≤40°C) 230V kW 43 400V kW 76 500V kW 95
230V kW 43 400V kW 76 500V kW 95
400V kW 76 500V kW 95
500V kW 95
600V kW 120
090V KW 120
Short-time allowable current for 10s (IEC/EN60947-1) A 640
Protection fuse
gG (IEC) A 125
aM (IEC) A 80
Making capacity (RMS value) A 800
Breaking capacity at voltage
440V A 640
500V A 625
690V A 456
Resistance per pole (average value) mΩ 0.6
Power dissipation per pole (average value)
lth W 7.9
AC-3 W 3.8
Tightening torque for terminals
min Nm 4
max Nm 5



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

BF80T2A22060

		min	Ibin	2.95
		max	Ibin	3.69
Tightening torque for c	coil terminal			
		min	Nm	0.8
		max	Nm	1
		min	Ibin	0.8
		max	Ibin	0.74
Max number of wires s	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
Power terminal protec	tion according to IEC/EN 60529			IP20 front
Mechanical features				
Operating position				
-		normal		Vertical plan
		allowable		±30°
Eiving				Screw / DIN rail
Fixing				35mm
Weight			g	1360
Conductor section				
	AWG/kcmil conductor section			
		max		2
Operations				
Mechanical life			cycles	15000000
Electrical life			cycles	1300000
Safety related data				
Performance level B1	0d according to EN/ISO 13489-1			
		rated load	cycles	1300000
		mechanical load	cycles	15000000
Mirror contats according	ng to IEC/EN 609474-4-1			YES
EMC compatibility				yes
AC coil operating				•
Rated AC voltage at 6	0Hz		V	220
AC operating voltage				
1 0 0	of 60Hz coil powered at 60Hz			
	pick-up			
	1h	min	%Us	80
		max	%Us	110
	drop-out			
		min	%Us	20
		max	%Us	55
AC average coil consu	Imption at 20°C			
U	of 60Hz coil powered at 60Hz			
		in-rush	VA	210
		holding	VA	15
Dissipation at holding	≤20°C 50Hz	9	W	5
Max cycles frequency				-

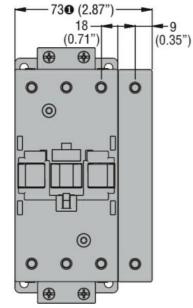


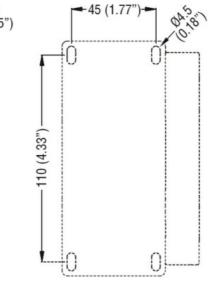
Mechanical operation cycles/h 3600 Operating times Average time for Us control in AC Closing NO 12 min ms max ms 28 **Opening NO** 8 min ms 22 max ms **Closing NC** 11 min ms max ms 29 **Opening NC** min 6 ms max ms 14 in DC **Closing NO** 40 min ms 85 max ms **Opening NO** min ms 20 55 max ms UL technical data Full-load current (FLA) for three-phase AC motor at 480V А 77 at 600V А 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

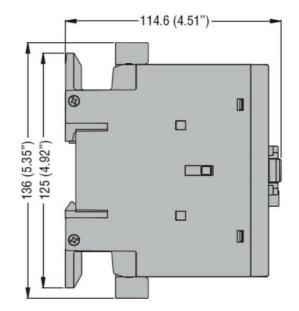
BF80T2A22060



BF80T2A22060 FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 115A, AC COIL 60HZ, 220VAC

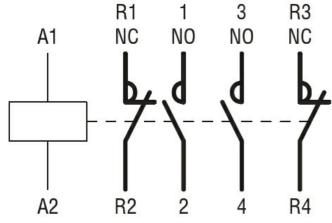






1 BF80T2 82mm/3.23"

Wiring diagrams **R1**



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