



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		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
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)			
	lth	W	7.9
	AC-3	Ŵ	3.8
Tightening torque for terminals			
	min	Nm	4
	max	Nm	5
	IIIdA		0



FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 115A, AC COIL 60HZ, 48VAC

BF80T2A04860

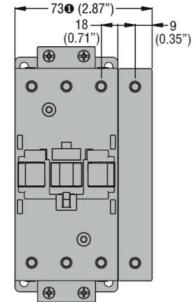
AWG/Kcmilmax2Flexible w/o lug conductor sectionminmm²1.5minmm²3.5Flexible c/w lug conductor sectionminmm²3.5Power terminal protection according to IEC/EN 60529IP20 frontIP20 frontMechanical featuresimaxmm²3.5Power terminal protection according to IEC/EN 60529IP20 frontIP20 frontMechanical featuresimaximaximaxOperating positionnormalsoreimaxFixingg136035mmWeightg1360imaxConductor sectionmax2AWG/kcmil conductor sectionmax2AWG/kcmil conductor sectionmax1500000Electrical lifecycles1500000Electrical lifecycles1500000Mirror contats according to EN/ISO 13489-1rated loadcyclesMirror contats according to EN/ISO 13489-1rated loadcyclesMirror contats according to EN/ISO 13489-1vest1500000Mirror contats according to EC/EN 609474-4-1vestvestAC coll operatingif 60Hz coil powered at 60Hzvistpick-upmin%4Us80max%4Us110maxdrop-outmin%4Us55AC average coil consumption at 20°Cof 60Hz coil powered at 60Hzin-rushof 60Hz coil powered at 60Hzin-rushVA210instip at to oddisoisoi					
Tightening torque for coil terminal min km 0.8 max Nm 1 min toin 0.8 max Nm 1 toin 0.74 Max number of wires simultaneously connectable Nr. 2 Conductor section Max number of wires simultaneously connectable Nr. 2 Conductor section Min mm² 1.5 max mm² 35 Fiexible v/o lug conductor section min mm² 1.5 max mm² 35 Power terminal protection according to IEC/EN 60529 IP20 front Machanical features Operating position or max 1.5 max			min	Ibin	2.95
$\begin{array}{c c c c c } & & & & & & & & & & & & & & & & & & &$			max	Ibin	3.69
$\begin{array}{c c c c c } & & & & & & & & & & & & & & & & & & &$	Tightening torque for	coil terminal			
$\begin{tabular}{ c c c c c } & \begin{tabular}{ c c c c c c c c c c c c c c c c c c c$			min	Nm	0.8
$\begin{tabular}{ c                                   $			max	Nm	1
Max number of wires simultaneously connectable Nr. 2 Conductor section AWG/Kcmil Flexible w/o lug conductor section Flexible c/w lug conductor section min mm² 1.5 max mm² 35 Power terminal protection according to IEC/EN 60529 Mechanical features Operating position Normal Vertical plan allowable ±30° Fixing Screw / DIN rail 35mm Weight go ductor section AWG/kcmil conductor section Mechanical life Screw / DIN rail 35mm AWG/kcmil conductor section AWG/kcmil conductor section Mechanical life Screw / DIN rail 20000 Electrical life Cycles 15000000 Electrical life Screw / DIN rail 20000 Safety related data Performance level B10d according to EN/ISO 13489-1 rated load cycles 1300000 Mirror contats according to EN/ISO 13489-1 rated load cycles 1300000 Mirror contats according to EN/ISO 13489-1 Performance level B10d according to EN/ISO 13489-1 EMC compatibility yes AC coll operating act of 60Hz coil powered at 60Hz pick-up min %US 80 max %US 110 drop-out min %US 20 max %US 55 AC average coil consumption at 20°C of 60Hz coil powered at 60Hz pick-up Min %US 20 max %US 55 AC average coil consumption at 20°C of 60Hz coil powered at 60Hz in-rush VA 210 holding VA 15 Dissipation at holding ≤20°C 50Hz W 5			min	Ibin	0.8
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Flexible c/w lug conductor section       min       mm²       1.5         max       mm²       1.5         Power terminal protection according to IEC/EN 60529       IP20 front         Mechanical features       inormal       Vertical plan         allowable       ±30°         Fixing       Screw / DIN rail         Weight       g       1360         Conductor section       max       2         Operations       mechanical life       cycles       1500000         Conductor section       max       2         Mechanical life       cycles       15000000         Electrical life       cycles       1300000         Safety related data       mechanical load       cycles       1300000         Performance level B10d according to EN/ISO 13489-1       rated load       cycles       1300000         Mirror contats according to IEC/EN 609474-4-1       YES       YES         EMC compatibility       yes       Yes       AC operating       software         AC operating voltage       of 60Hz coil powered at 60Hz       V       48       AC operating voltage       Software         max       %Us       55       55       AC average coil consumption at 20°C       max       %Us <td></td> <td></td> <td>min</td> <td>mm²</td> <td></td>			min	mm²	
$ \begin{array}{c c c c c } & & & & & & & & & & & & & & & & & & &$			max	mm²	35
max         mm²         35           Power terminal protection according to IEC/EN 60529         IP20 front           Machanical features         rormal         Vertical plan           Operating position         normal         ± 30°           Fixing         Screw / DIN rail         35 mm           Weight         g         1360           Conductor section         g         1360           Conductor section         max         2           Operating for the data         cycles         15000000           Electrical life         cycles         1300000           Safety related data         cycles         1300000           Merror contats according to EN/ISO 13489-1         rated load         cycles         1300000           Mirror contats according to EN/ISO 13489-1         yes         15000000           Mirror contats according to EN/ISO 13489-1         yes         15000000           Mirror contats according to IEC/EN 609474-4-1         YES         1300000           Mirror contats according to IEC/EN 609474-4-1         YES         15000000           Mirror contats according to IEC/EN 609474-4-1         YES         1500000           Marcording to IEC/EN 609474-0         YES         55           AC coll operating		Flexible c/w lug conductor section			
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Mechanical features         Operating position         normal allowable       ±30°         Fixing       Screw / DIN rail 35mm         Weight       g       1360         Conductor section       max       2         Operations       max       2         Operations       max       2         Mechanical life       cycles       1500000         Electrical life       cycles       1300000         Safety related data       Performance level B10d according to EN/ISO 13489-1       rated load       cycles       1300000         Mirror contats according to IEC/EN 609474-4-1       rated load       cycles       1300000         Mirror contats according to IEC/EN 609474-4-1       yes       YES         EMC compatibility       yes       yes         AC coll operating       v       48         AC ool operating       of 60Hz coil powered at 60Hz       inin       %Us       80         pick-up       min       %Us       55       55         AC average coil consumption at 20°C       of 60Hz coil powered at 60Hz       in-rush       V       210         min       %Us       55       55       55			max	mm²	
Operating position         Normal allowable         Vertical plan allowable           allowable         ±30°           Fixing         35mm           Weight         g         1360           Conductor section         max         2           Operations         max         2           Operations         cycles         1500000           Electrical life         cycles         1500000           Electrical life         cycles         1500000           Safety related data         v         1800000           Performance level B10d according to EN/ISO 13489-1         rated load         cycles         1300000           Mirror contats according to IEC/EN 609474-4-1         vES         15000000           Mirror contats according to IEC/EN 609474-4-1         vES         48           AC coll operating         vertical plan         vertical plan           AC coll operating         vertical plan         vertical plan           AC coll operating         vertical plan         vertical plan           AC operating voltage         of 60Hz coil powered at 60Hz         vertical plan           pick-up         min         %Us         110           max         %Us         55         55	-	ction according to IEC/EN 60529			IP20 front
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allowable         ±30°           Fixing         Screw / DIN rail           Weight         g         1360           Conductor section         max         2           AWG/kcmil conductor section         max         2           Operations         max         2           Mechanical life         cycles         1500000           Electrical life         cycles         1300000           Safety related data         cycles         1300000           Performance level B10d according to EN/ISO 13489-1         rated load         cycles         1300000           Mirror contats according to IEC/EN 609474-4-1         YES         15000000           Mirror contats according to IEC/EN 609474-4-1         YES         YES           AC coil operating         yes         XAC cole operating         yes           Rated AC voltage at 60Hz         V         48         XC operating voltage         NUS         110           drop-out         min         %US         55         XC average coil consumption at 20°C         S5         S5           AC average coil consumption at 20°C         of 60Hz coil powered at 60Hz         S5         S5           AC average coil consumption at 20°C         of 60Hz coil powered at 60Hz         S5	Operating position				
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''         35mm           Weight         g         1360           Conductor section         max         2           Operations         cycles         1500000           Bechanical life         cycles         1500000           Electrical life         cycles         130000           Safety related data         cycles         1300000           Performance level B10d according to EN/ISO 13489-1         rated load         cycles         1300000           Mirror contats according to IEC/EN 609474-4-1         YES         15000000           EMC compatibility         yes         48           AC coil operating         v         48           AC operating voltage         of 60Hz coil powered at 60Hz         yes           pick-up         min         %Us         110           drop-out         min         %Us         55           AC average coil consumption at 20°C         of 60Hz coil powered at 60Hz         in-rush         VA         210           Molding         VA         15         15         15	Fixing				
Conductor section       max       2         Operations					
AWG/kcmil conductor section         max         2           Operations         cycles         1500000           Bechanical life         cycles         130000           Safety related data         cycles         1300000           Safety related data         cycles         1300000           Performance level B10d according to EN/ISO 13489-1         rated load         cycles         1500000           Mirror contats according to IEC/EN 609474-4-1         YES         yes           AC coil operating         yes         AC coil operating         yes           AC coil operating         V         48           AC operating voltage         v         48           AC operone         max         %Us         55           AC average coil consumption at 20°C         fof 0Hz coil powered at 60Hz         yes           of 0Hz coil powered at 60Hz         in-rush         VA         210           holding         VA         15         15	-			g	1360
max         2           Operations	Conductor section				
Operations       cycles       1500000         Electrical life       cycles       130000         Safety related data		AWG/KCMII Conductor Section			2
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drop-out min %Us 20 max %Us 55 AC average coil consumption at 20°C of 60Hz coil powered at 60Hz in-rush VA 210 holding VA 15 Dissipation at holding ≤20°C 50Hz W 5					
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max%Us55AC average coil consumption at 20°C of 60Hz coil powered at 60Hzin-rushVA210 holdingin-rushVA15Dissipation at holding ≤20°C 50HzW5		•	min	%Us	20
AC average coil consumption at 20°C of 60Hz coil powered at 60Hz in-rush VA 210 holding VA 15 Dissipation at holding ≤20°C 50Hz W 5			max		
of 60Hz coil powered at 60Hz in-rush VA 210 holding VA 15 Dissipation at holding ≤20°C 50Hz W 5	AC average coil cons	umption at 20°C			
in-rush         VA         210           holding         VA         15           Dissipation at holding ≤20°C 50Hz         W         5	-				
Dissipation at holding ≤20°C 50Hz W 5		-	in-rush	VA	210
			holding	VA	15
	Dissipation at holding	≤20°C 50Hz		W	5
	Max cycles frequency				

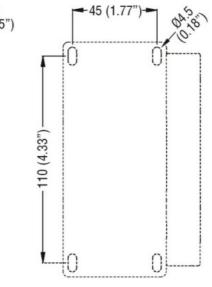


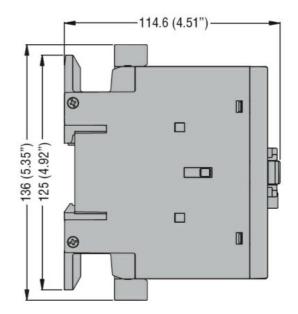
Mechanical operation				cycles/h	3600
Operating times				,	
Average time for Us c	ontrol				
-	in AC				
		Closing NO			
			min	ms	12
			max	ms	28
		Opening NO			
			min	ms	8
			max	ms	22
		Closing NC			
		-	min	ms	11
			max	ms	29
		Opening NC			
			min	ms	6
			max	ms	14
	in DC				
		Closing NO			
		U U	min	ms	40
			max	ms	85
		Opening NO			
		515 5	min	ms	20
			max	ms	55
UL technical data					
Full-load current (FLA	) for three-phase AC mo	tor			
			at 480V	А	77
			at 600V	А	77
Yielded mechanical p	erformance				
	for three-phase AC m	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	<del>,</del>			
	epotening tomporation	-	min	°C	-50
			max	°C	70
	Storage temperature		тах	0	
	Storage tomporature		min	°C	-60
			max	°C	80
Max altitude			Παλ	 	3000
Resistance & Protecti	on				
Pollution degree					3
Dimensions					
E-mensions					



**BF80T2A04860** FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 115A, AC COIL 60HZ, 48VAC

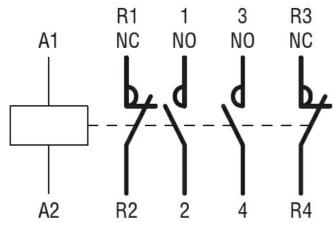






• BF80T2 82mm/3.23"

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

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BF80T2A04860