



Product designation			Power contactor
Product type designation			BF18
Contact characteristics			
Number of poles		Nr.	4
Rated insulation voltage Ui IEC/EN		V	690
Rated impulse withstand voltage Uimp		kV	6
Operational frequency			05
	min	Hz	25
IEC Conventional free air thermal current Ith	max	Hz	400
		A	32
Operational current le		۸	22
	AC-1 (≤40°C)	A	32
	AC-1 (≤55°C)	A	26
	AC-1 (≤70°C) AC-3 (≤440V ≤55°C)	A	23 18
	AC-3 (5440V 555 C) AC-4 (400V)	A A	8.5
Rated operational power AC-1 (T≤40°C)	AC-4 (400V)	A	0.0
Rated operational power AC-1 (1540 C)	230V	kW	12
	230V 400V	kW	21
	400V 500V	kW	26
	690V	kW	36
Short-time allowable current for 10s (IEC/EN60947-1)	0.001	A	200
Protection fuse		~	200
	gG (IEC)	А	32
	aM (IEC)	A	20
Making capacity (RMS value)		A	180
Breaking capacity at voltage			100
Broaking capacity at voltage	440V	А	144
	500V	A	120
	690V	A	94
Resistance per pole (average value)		mΩ	2.5
Power dissipation per pole (average value)			
	lth	W	2.6
	AC-3	W	0.8
Tightening torque for terminals			
	min	Nm	1.5
	max	Nm	1.8
	min	Ibin	1.1
	max	Ibin	1.5
Tightening torque for 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			
	AWG/Remin	max		10
	Flexible w/o lug conductor section			
	Ū.	min	mm²	1
		max	mm²	6
	Flexible c/w lug conductor section			
		min	mm²	1
		max	mm²	4
	Flexible with insulated spade lug conductor s		mm2	4
		min max	mm² mm²	1 4
Power terminal protection according to IEC/EN 60529			IP20 when properly wired	
Mechanical features				property when
Operating position				
		normal allowable		Vertical plan ±30°
Fixing				Screw / DIN rail 35mm
Weight			g	362
Conductor section				
	AWG/kcmil conductor section			
		max		10
Operations				
Mechanical life			cycles	2000000
Electrical life			cycles cycles	1600000
Electrical life Safety related data	Ind according to EN/ISO 12490 1			
Electrical life Safety related data	0d according to EN/ISO 13489-1	rated load	cycles	1600000
Electrical life Safety related data	0d according to EN/ISO 13489-1	rated load	cycles cycles	1600000 1600000
Electrical life Safety related data Performance level B1		rated load mechanical load	cycles	1600000 1600000 20000000
Electrical life Safety related data Performance level B1 Mirror contats accord	I 0d according to EN/ISO 13489-1 ing to IEC/EN 609474-4-1		cycles cycles	1600000 1600000 20000000 YES
Electrical life Safety related data Performance level B1 Mirror contats accord EMC compatibility			cycles cycles	1600000 1600000 20000000
Electrical life Safety related data Performance level B1 Mirror contats accord EMC compatibility AC coil operating	ing to IEC/EN 609474-4-1		cycles cycles	1600000 1600000 20000000 YES
Electrical life Safety related data Performance level B1 Mirror contats accord EMC compatibility AC coil operating Rated AC voltage at 5	ing to IEC/EN 609474-4-1		cycles cycles cycles	1600000 1600000 20000000 YES yes
Electrical life Safety related data Performance level B1 Mirror contats accord EMC compatibility AC coil operating Rated AC voltage at 5	ing to IEC/EN 609474-4-1 50/60Hz of 50/60Hz coil powered at 50Hz		cycles cycles cycles	1600000 1600000 20000000 YES yes
Electrical life Safety related data Performance level B1 Mirror contats accord EMC compatibility AC coil operating Rated AC voltage at 5	ing to IEC/EN 609474-4-1 50/60Hz		cycles cycles cycles	1600000 1600000 20000000 YES yes
Electrical life Safety related data Performance level B1 Mirror contats accord EMC compatibility AC coil operating Rated AC voltage at 5	ing to IEC/EN 609474-4-1 50/60Hz of 50/60Hz coil powered at 50Hz	mechanical load	cycles cycles cycles	1600000 1600000 20000000 YES yes 110
Electrical life Safety related data Performance level B1 Mirror contats accord EMC compatibility AC coil operating Rated AC voltage at 5	ing to IEC/EN 609474-4-1 50/60Hz of 50/60Hz coil powered at 50Hz	mechanical load	cycles cycles cycles V V %Us %Us	1600000 1600000 20000000 YES yes 110
Electrical life Safety related data Performance level B1 Mirror contats accord EMC compatibility AC coil operating Rated AC voltage at 5	ing to IEC/EN 609474-4-1 50/60Hz of 50/60Hz coil powered at 50Hz pick-up	mechanical load	cycles cycles cycles V V %Us %Us %Us	1600000 1600000 20000000 YES yes 110 80 110 20
Electrical life Safety related data Performance level B1 Mirror contats accord EMC compatibility AC coil operating Rated AC voltage at §	ing to IEC/EN 609474-4-1 50/60Hz of 50/60Hz coil powered at 50Hz pick-up drop-out	mechanical load	cycles cycles cycles V V %Us %Us	1600000 1600000 20000000 YES yes 110 80 110
Electrical life Safety related data Performance level B1 Mirror contats accord EMC compatibility AC coil operating Rated AC voltage at 5	ing to IEC/EN 609474-4-1 50/60Hz of 50/60Hz coil powered at 50Hz pick-up	mechanical load	cycles cycles cycles V V %Us %Us %Us	1600000 1600000 20000000 YES yes 110 80 110 20
Electrical life Safety related data Performance level B1 Mirror contats accord EMC compatibility AC coil operating Rated AC voltage at 5	ing to IEC/EN 609474-4-1 50/60Hz of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz	mechanical load	cycles cycles cycles V V %Us %Us %Us %Us	1600000 1600000 20000000 YES yes 110 80 110 20 55 85
Electrical life Safety related data Performance level B1 Mirror contats accord EMC compatibility AC coil operating Rated AC voltage at 5	ing to IEC/EN 609474-4-1 50/60Hz of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up	mechanical load	cycles cycles cycles V V %Us %Us %Us %Us	1600000 1600000 20000000 YES yes 110 80 110 20 55
Electrical life Safety related data Performance level B1 Mirror contats accord EMC compatibility AC coil operating Rated AC voltage at 5	ing to IEC/EN 609474-4-1 50/60Hz of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz	mechanical load	cycles cycles cycles V V %Us %Us %Us %Us %Us %Us	1600000 1600000 20000000 YES yes 110 80 110 20 55 85 110
Electrical life Safety related data Performance level B1 Mirror contats accord EMC compatibility AC coil operating Rated AC voltage at 5	ing to IEC/EN 609474-4-1 50/60Hz of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up	mechanical load	cycles cycles cycles V V %Us %Us %Us %Us %Us %Us %Us	1600000 1600000 20000000 YES yes 110 80 110 20 55 85 110 20 20
Electrical life Safety related data Performance level B1 Mirror contats accord EMC compatibility AC coil operating Rated AC voltage at 8 AC operating voltage	ing to IEC/EN 609474-4-1 50/60Hz of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up drop-out	mechanical load	cycles cycles cycles V V %Us %Us %Us %Us %Us %Us	1600000 1600000 20000000 YES yes 110 80 110 20 55 85 110
Electrical life Safety related data Performance level B1 Mirror contats accord EMC compatibility AC coil operating Rated AC voltage at 8 AC operating voltage	ing to IEC/EN 609474-4-1 50/60Hz of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up drop-out	mechanical load	cycles cycles cycles V V %Us %Us %Us %Us %Us %Us %Us	1600000 1600000 20000000 YES yes 110 80 110 20 55 85 110 20 20
Electrical life Safety related data Performance level B1	ing to IEC/EN 609474-4-1 50/60Hz of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up drop-out	mechanical load	cycles cycles cycles V V %Us %Us %Us %Us %Us %Us %Us	1600000 1600000 20000000 YES yes 110 80 110 20 55 85 110 20 20

BF18T2A110



**BF18T2A110** FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 32A, AC COIL 50/60HZ,

110VAC, 2NO AND 2NC

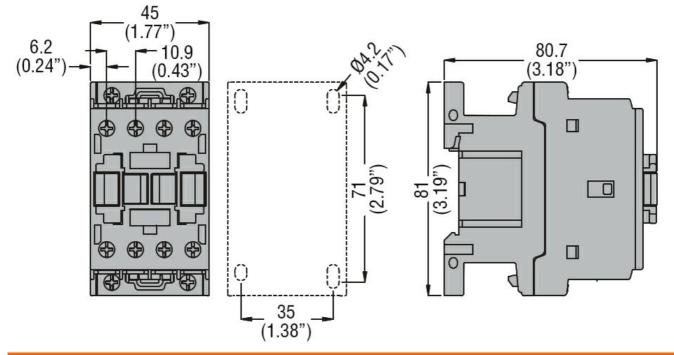
	of 50/60Hz coil powered at 60Hz			
		in-rush	VA	70
		holding	VA	6.5
	of 60Hz coil powered at 60Hz			
		in-rush	VA	75
		holding	VA	9
Dissipation at holding	l ≤20°C 50Hz	ÿ_	W	2.5
Max cycles frequency				
Mechanical operation			cycles/h	3600
Operating times			Cyclc3/II	3000
Average time for Us of	control			
Average time for US t				
	in AC			
	Closing NO			•
		min	ms	8
		max	ms	24
	Opening NO			
		min	ms	10
		max	ms	20
	Closing NC			
		min	ms	14
		max	ms	28
	Opening NC			
		min	ms	7
		max	ms	18
UL technical data			-	-
	A) for three-phase AC motor			
		at 480V	А	14
		at 600V	A	17
Yielded mechanical p	orformanaa	at 000 v	~	17
neided mechanical p				
	for single-phase AC motor	440/400/4		
		110/120V	HP	1
		230V	HP	3
	for three-phase AC motor			
		200/208V	HP	5
		220/230V	HP	5
		460/480V	HP	10
		575/600V	HP	15
General USE				
	Contactor			
		AC current	А	32
Ambient conditions				
Temperature				
· omporatoro	Operating temperature			
	operating temperature	min	°C	-50
			°C	70
	Storage temperature	max	U	10
	Storage temperature		° <b>^</b>	<u></u>
		min	°C	-60
		max	°C	80
Max altitude			m	3000
Resistance & Protect	ion			
Pollution degree				3
Dimensions				

BF18T2A110

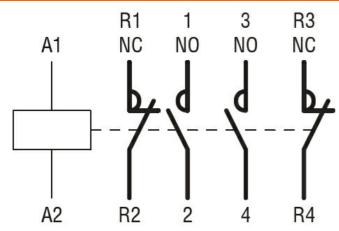
BF18T2A110



FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 32A, AC COIL 50/60HZ, 110VAC, 2NO AND 2NC



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	
	EAC	
ETIM classification		
ETIM 8.0		EC000066 - Power contactor, AC switching