



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			
	min	Hz	25
	max	Hz	400
IEC Conventional free air thermal current Ith		Α	32
Operational current le			
	AC-1 (≤40°C)	Α	32
	AC-1 (≤55°C)	Α	26
	AC-1 (≤70°C)	Α	23
	AC-3 (≤440V ≤55°C)	Α	18
	AC-4 (400V)	Α	8.5
Rated operational power AC-1 (T≤40°C)			
	230V	kW	12
	400V	kW	21
	500V	kW	26
	690V	kW	36
Short-time allowable current for 10s (IEC/EN60947-1)		Α	200
Protection fuse			
	gG (IEC)	Α	32
	aM (IEC)	Α	20
Making capacity (RMS value)		Α	180
Breaking capacity at voltage			
	440V	Α	144
	500V	Α	120
	690V	A	94
Resistance per pole (average value)		mΩ	2.5
Power dissipation per pole (average value)			
	Ith	W	2.6
=	AC-3	W	0.8
Tightening torque for terminals			
	min	Nm	1.5
	max	Nm	1.8
	min	lbin	1.1
	max	Ibin	1.5
Tightening torque for coil terminal			
	min	Nm	0.8
	max	Nm	1
	min	lbin	0.8
	max	Ibin	0.74
Max number of wires simultaneously connectable		Nr.	2



Conductor section			
	AWG/Kcmil		
	max		10
	Flexible w/o lug conductor section	2	
	min	mm²	1
	Elevible of white conductor section	mm²	6
	Flexible c/w lug conductor section min	mm²	1
	max	mm²	4
	Flexible with insulated spade lug conductor section		<u> </u>
	min	mm²	1
	max	mm²	4
Power terminal protect	tion according to IEC/EN 60529		IP20 when properly wired
Mechanical features			property whou
Operating position			
	normal		Vertical plan
	allowable		±30°
Fixing			Screw / DIN rail 35mm
Weight		g	360
Conductor section			
	AWG/kcmil conductor section		
	max		10
Auxiliary contact chara	cteristics	^	20
Thermal current Ith		Α	32
IEC/EN 60047 5 1 doc	gianation		1600 D600
	signation		A600 - P600
Operations	signation	cycles	
Operations Mechanical life	signation	cycles cycles	20000000
Operations Mechanical life Electrical life	signation	cycles cycles	
IEC/EN 60947-5-1 des Operations Mechanical life Electrical life Safety related data Performance level B10	Od according to EN/ISO 13489-1	-	20000000
Operations Mechanical life Electrical life Safety related data		-	20000000
Operations Mechanical life Electrical life Safety related data Performance level B10	Od according to EN/ISO 13489-1 rated load mechanical load	cycles	20000000 1600000 1600000 20000000
Operations Mechanical life Electrical life Safety related data Performance level B10 Mirror contats according	Od according to EN/ISO 13489-1 rated load	cycles	20000000 1600000 1600000
Operations Mechanical life Electrical life Safety related data Performance level B10 Mirror contats accordin	Od according to EN/ISO 13489-1 rated load mechanical load	cycles	20000000 1600000 1600000 20000000
Operations Mechanical life Electrical life Safety related data Performance level B10 Mirror contats accordin EMC compatibility AC coil operating	Od according to EN/ISO 13489-1 rated load mechanical load ng to IEC/EN 609474-4-1	cycles cycles cycles	20000000 1600000 1600000 20000000 YES yes
Operations Mechanical life Electrical life Safety related data Performance level B10 Mirror contats accordine EMC compatibility AC coil operating Rated AC voltage at 50	Od according to EN/ISO 13489-1 rated load mechanical load ng to IEC/EN 609474-4-1	cycles	20000000 1600000 1600000 20000000 YES
Operations Mechanical life Electrical life Safety related data Performance level B10 Mirror contats accordine EMC compatibility AC coil operating Rated AC voltage at 50	Od according to EN/ISO 13489-1 rated load mechanical load ng to IEC/EN 609474-4-1	cycles cycles cycles	20000000 1600000 1600000 20000000 YES yes
Operations Mechanical life Electrical life Safety related data Performance level B10 Mirror contats accordine EMC compatibility AC coil operating Rated AC voltage at 50	Od according to EN/ISO 13489-1 rated load mechanical load ng to IEC/EN 609474-4-1 0/60Hz of 50/60Hz coil powered at 50Hz	cycles cycles cycles	20000000 1600000 1600000 20000000 YES yes
Operations Mechanical life Electrical life Safety related data Performance level B10 Mirror contats accordine EMC compatibility AC coil operating Rated AC voltage at 50	Od according to EN/ISO 13489-1 rated load mechanical load ng to IEC/EN 609474-4-1 0/60Hz of 50/60Hz coil powered at 50Hz pick-up	cycles cycles cycles	20000000 1600000 1600000 20000000 YES yes
Operations Mechanical life Electrical life Safety related data Performance level B10 Mirror contats accordine EMC compatibility AC coil operating Rated AC voltage at 50	Od according to EN/ISO 13489-1 rated load mechanical load ng to IEC/EN 609474-4-1 0/60Hz of 50/60Hz coil powered at 50Hz	cycles cycles cycles	20000000 1600000 1600000 20000000 YES yes
Operations Mechanical life Electrical life Safety related data Performance level B10 Mirror contats accordine EMC compatibility AC coil operating Rated AC voltage at 50	od according to EN/ISO 13489-1 rated load mechanical load ng to IEC/EN 609474-4-1 o/60Hz of 50/60Hz coil powered at 50Hz pick-up min	cycles cycles cycles	20000000 1600000 1600000 20000000 YES yes 48
Operations Mechanical life Electrical life Safety related data Performance level B10 Mirror contats accordine EMC compatibility AC coil operating Rated AC voltage at 50	Od according to EN/ISO 13489-1 rated load mechanical load ng to IEC/EN 609474-4-1 0/60Hz of 50/60Hz coil powered at 50Hz pick-up min max	cycles cycles cycles	20000000 1600000 1600000 20000000 YES yes 48
Operations Mechanical life Electrical life Safety related data Performance level B10 Mirror contats accordine EMC compatibility AC coil operating Rated AC voltage at 50	Od according to EN/ISO 13489-1 rated load mechanical load ong to IEC/EN 609474-4-1 O/60Hz of 50/60Hz coil powered at 50Hz pick-up min max drop-out min max	cycles cycles cycles	20000000 1600000 1600000 20000000 YES yes 48
Operations Mechanical life Electrical life Safety related data Performance level B10 Mirror contats accordine EMC compatibility AC coil operating Rated AC voltage at 50	Od according to EN/ISO 13489-1 rated load mechanical load ong to IEC/EN 609474-4-1 O/60Hz of 50/60Hz coil powered at 50Hz pick-up min max drop-out min max of 50/60Hz coil powered at 60Hz	cycles cycles cycles V %Us %Us %Us	20000000 1600000 1600000 20000000 YES yes 48
Operations Mechanical life Electrical life Safety related data Performance level B10 Mirror contats accordine EMC compatibility AC coil operating Rated AC voltage at 50	Od according to EN/ISO 13489-1 rated load mechanical load ong to IEC/EN 609474-4-1 O/60Hz of 50/60Hz coil powered at 50Hz pick-up min max drop-out min max of 50/60Hz coil powered at 60Hz pick-up	cycles cycles cycles V %Us %Us %Us %Us	20000000 1600000 1600000 20000000 YES yes 48 80 110 20 55
Operations Mechanical life Electrical life Safety related data Performance level B10 Mirror contats accordine EMC compatibility AC coil operating Rated AC voltage at 50	Od according to EN/ISO 13489-1 rated load mechanical load ong to IEC/EN 609474-4-1 O/60Hz of 50/60Hz coil powered at 50Hz pick-up min max drop-out min max of 50/60Hz coil powered at 60Hz pick-up min max	cycles cycles cycles V %Us %Us %Us %Us	20000000 1600000 1600000 20000000 YES yes 48 80 110 20 55
Operations Mechanical life Electrical life Safety related data Performance level B10 Mirror contats accordine EMC compatibility AC coil operating Rated AC voltage at 50	Od according to EN/ISO 13489-1 rated load mechanical load ng to IEC/EN 609474-4-1 O/60Hz of 50/60Hz coil powered at 50Hz pick-up min max drop-out min max of 50/60Hz coil powered at 60Hz pick-up min max	cycles cycles cycles V %Us %Us %Us %Us	20000000 1600000 1600000 20000000 YES yes 48 80 110 20 55
Operations Mechanical life Electrical life Safety related data Performance level B10 Mirror contats accordine EMC compatibility AC coil operating Rated AC voltage at 50	Od according to EN/ISO 13489-1 rated load mechanical load mechanical load ong to IEC/EN 609474-4-1 O/60Hz of 50/60Hz coil powered at 50Hz pick-up min max drop-out min max of 50/60Hz coil powered at 60Hz pick-up min max drop-out min max drop-out	cycles cycles cycles V %Us %Us %Us %Us %Us	20000000 1600000 1600000 200000000 YES yes 48 80 110 20 55
Operations Mechanical life Electrical life Safety related data Performance level B10 Mirror contats according	Od according to EN/ISO 13489-1 rated load mechanical load ng to IEC/EN 609474-4-1 O/60Hz of 50/60Hz coil powered at 50Hz pick-up min max drop-out min max of 50/60Hz coil powered at 60Hz pick-up min max	cycles cycles cycles V %Us %Us %Us %Us	20000000 1600000 1600000 20000000 YES yes 48 80 110 20 55



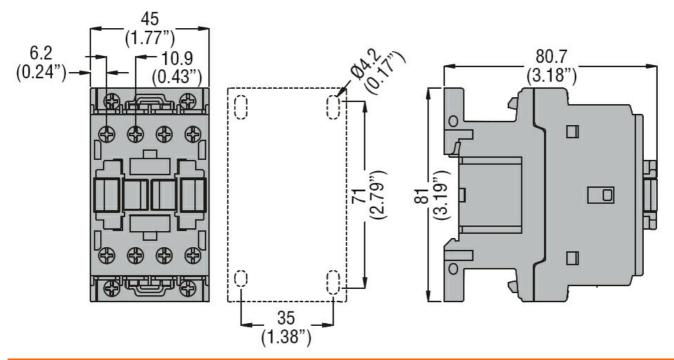


	of 50/60Hz coil powered at 50Hz			
		in-rush	VA	75
		holding	VA	9
	of 50/60Hz coil powered at 60Hz			
		in-rush	VA	70
		holding	VA	6.5
	of 60Hz coil powered at 60Hz			
		in-rush	VA	75
		holding	VA	9
Dissipation at holding	≤20°C 50Hz		W	2.5
Max cycles frequency				
Mechanical operation			cycles/h	3600
Operating times				
Average time for Us co	ontrol			<u>. </u>
· ·	in AC			
	Closing NO			
	Ŭ	min	ms	8
		max	ms	24
	Opening NO			
	1 3 -	min	ms	10
		max	ms	20
	Closing NC			
	3 1 3	min	ms	14
		max	ms	28
	Opening NC			
	3,1	min	ms	7
		max	ms	18
UL technical data				
	for three-phase AC motor			
,		at 480V	Α	14
		at 600V	Α	17
Yielded mechanical pe	rformance			
,	for single-phase AC motor			
	Ter single phase / te meter	110/120V	HP	1
		230V	HP	3
	for three-phase AC motor			
	so pridos rio motor	200/208V	HP	5
		220/230V	HP	5
		460/480V	HP	10
		575/600V	HP	15
General USE		3. 5/555 V	• • •	· -
Conoral COL	Contactor			
		AC current	Α	32
	Auxiliary contacts	7.0 ourion	/ \	<u> </u>
	Administry of the control of the con	AC voltage	V	600
		AC current	A	10
		DC voltage	V	250
		DC voltage DC current	A	1
Contact rating of auxilia	ary contacts according to UL	DO CUITEIR		SI - A600
Ambient conditions	ary contacts according to OL			OI - 7000
Temperature				
remperature	Operating temperature			
	Operating temperature	min	°C	-50
		min	°C	-50 70
		max		10

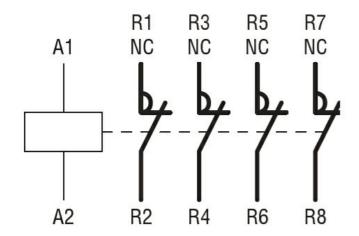


Storage temperature			
	min	°C	-60
	max	°C	80
Max altitude		m	3000
Resistance & Protection			
Pollution degree			3
Discount of the control of the contr			

Dimensions



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



BF18T0A048

FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 32A, AC COIL 50/60HZ, 48VAC, 4NC

EAC

ETIM classification

ETIM 8.0

EC000066 -Power contactor, AC switching