



Product designation			Power contactor
Product type designation			BF18
Contact characteristics			DITO
Number of poles		Nr.	4
Rated insulation voltage Ui IEC/EN		V	690
Rated impulse withstand voltage Uimp		kV	6
Operational frequency			0
	min	Hz	25
	max	Hz	400
IEC Conventional free air thermal current Ith		A	32
Operational current le			
·	AC-1 (≤40°C)	А	32
	AC-1 (≤55°C)	А	26
	AC-1 (≤70°C)	А	23
	AC-3 (≤440V ≤55°C)	А	18
	AC-4 (400V)	А	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)		А	200
Protection fuse			
	gG (IEC)	А	32
	aM (IEC)	Α	20
Making capacity (RMS value)		Α	180
Breaking capacity at voltage			
	440V	А	144
	500V	А	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
Tink to size to serve for a sill to main all	max	lbin	1.5
Tightening torque for coil terminal		N.L	0.0
	min	Nm	0.8
	max	Nm	1
	min	lbin Ibin	0.8
May number of wires simultaneously corrected	max	lbin	0.74
Max number of wires simultaneously connectable		Nr.	2



Conductor section

	AWG/Kcmil	max		10
	Flexible w/o lug conductor section	Шах		10
		min	mm²	1
		max	mm²	6
	Flexible c/w lug conductor section			
		min	mm²	1
		max	mm²	4
	Flexible with insulated spade lug conducto			
		min	mm²	1
		max	mm²	4
	tion according to IEC/EN 60529			IP20 when properly wired
Mechanical features				
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	acteristics			
Thermal current Ith			A	32
IEC/EN 60947-5-1 de	signation			A600 - P600
Operations				
Mechanical life Electrical life			cycles	20000000 1600000
Electrical life			cycles	1800000
Safety related data				
Safety related data	0d according to EN/ISO 13489-1			
	0d according to EN/ISO 13489-1	rated load	cycles	160000
	0d according to EN/ISO 13489-1	rated load mechanical load	cycles cycles	1600000 20000000
Performance level B1		rated load mechanical load	cycles cycles	2000000
Performance level B1	0d according to EN/ISO 13489-1 ng to IEC/EN 609474-4-1		-	20000000 YES
Performance level B1 Mirror contats accordi			-	2000000
Performance level B1 Mirror contats accordin EMC compatibility	ng to IEC/EN 609474-4-1		-	20000000 YES
Performance level B1 Mirror contats accordi EMC compatibility AC coil operating	ng to IEC/EN 609474-4-1 0/60Hz		cycles	20000000 YES yes
Performance level B1 Mirror contats accordi EMC compatibility AC coil operating Rated AC voltage at 5	ng to IEC/EN 609474-4-1 0/60Hz of 50/60Hz coil powered at 50Hz		cycles	20000000 YES yes
Performance level B1 Mirror contats accordi EMC compatibility AC coil operating Rated AC voltage at 5	ng to IEC/EN 609474-4-1 0/60Hz	mechanical load	V	20000000 YES yes 110
Performance level B1 Mirror contats accordi EMC compatibility AC coil operating Rated AC voltage at 5	ng to IEC/EN 609474-4-1 0/60Hz of 50/60Hz coil powered at 50Hz	mechanical load	v v vsus	20000000 YES yes 110 80
Performance level B1 Mirror contats accordi EMC compatibility AC coil operating Rated AC voltage at 5	ng to IEC/EN 609474-4-1 0/60Hz of 50/60Hz coil powered at 50Hz pick-up	mechanical load	V	20000000 YES yes 110
Performance level B1 Mirror contats accordi EMC compatibility AC coil operating Rated AC voltage at 5	ng to IEC/EN 609474-4-1 0/60Hz of 50/60Hz coil powered at 50Hz	mechanical load	v v %Us %Us	20000000 YES yes 110 80 110
Performance level B1 Mirror contats accordi EMC compatibility AC coil operating Rated AC voltage at 5	ng to IEC/EN 609474-4-1 0/60Hz of 50/60Hz coil powered at 50Hz pick-up	mechanical load	v v %Us %Us %Us	20000000 YES yes 110 80 110 20
Performance level B1 Mirror contats accordi EMC compatibility AC coil operating Rated AC voltage at 5	ng to IEC/EN 609474-4-1 0/60Hz of 50/60Hz coil powered at 50Hz pick-up drop-out	mechanical load	v v %Us %Us	20000000 YES yes 110 80 110
Performance level B1 Mirror contats accordi EMC compatibility AC coil operating Rated AC voltage at 5	ng to IEC/EN 609474-4-1 0/60Hz of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz	mechanical load	v v %Us %Us %Us	20000000 YES yes 110 80 110 20
Performance level B1 Mirror contats accordi EMC compatibility AC coil operating Rated AC voltage at 5	ng to IEC/EN 609474-4-1 0/60Hz of 50/60Hz coil powered at 50Hz pick-up drop-out	mechanical load	v v %Us %Us %Us	20000000 YES yes 110 80 110 20
Performance level B1 Mirror contats accordi EMC compatibility AC coil operating Rated AC voltage at 5	ng to IEC/EN 609474-4-1 0/60Hz of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz	mechanical load min max min max	v v %Us %Us %Us %Us	20000000 YES yes 110 80 110 20 55
Performance level B1 Mirror contats accordin EMC compatibility AC coil operating Rated AC voltage at 5	ng to IEC/EN 609474-4-1 0/60Hz of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz	mechanical load min max min max min max	v v %Us %Us %Us %Us	20000000 YES yes 110 80 110 20 55 85
Performance level B1 Mirror contats accordin EMC compatibility AC coil operating Rated AC voltage at 5	ng to IEC/EN 609474-4-1 0/60Hz of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up	mechanical load min max min max min max	v v %Us %Us %Us %Us	20000000 YES yes 110 80 110 20 55 85

AC average coil consumption at 20°C



FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 32A, AC COIL 50/60HZ, 110VAC, 4NC

BF18T0A110

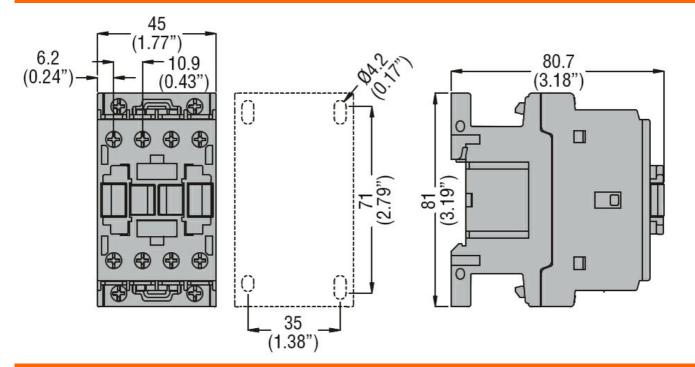
	of 50/60Hz coil powered at 50Hz			
		in-rush	VA	75
		holding	VA	9
	of 50/60Hz coil powered at 60Hz			<u> </u>
		in-rush	VA	70
		holding	VA	6.5
	of 60Hz coil powered at 60Hz			
		in-rush	VA	75
		holding	VA	9
Dissipation at holding :	≤20°C 50Hz		W	2.5
Max cycles frequency				
Mechanical operation			cycles/h	3600
Operating times				
Average time for Us co	ontrol			
	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				
Full-load current (FLA)	for three-phase AC motor			
Full-load current (FLA)	for three-phase AC motor	at 480V	А	14
Full-load current (FLA)	for three-phase AC motor	at 480V at 600V	A A	14 17
Full-load current (FLA) Yielded mechanical pe				
· · ·				
· · ·	rformance			
· · ·	rformance	at 600V	A	17
· · ·	rformance	at 600V 110/120V	A HP	171
· · ·	erformance for single-phase AC motor	at 600V 110/120V	A HP	171
· · ·	erformance for single-phase AC motor	at 600V 110/120V 230V	A HP HP	17 1 3
· · ·	erformance for single-phase AC motor	at 600V 110/120V 230V 200/208V	A HP HP HP	17 1 3 5
· · ·	erformance for single-phase AC motor	at 600V 110/120V 230V 200/208V 220/230V	A HP HP HP HP	17 1 3 5 5
· · ·	erformance for single-phase AC motor	at 600V 110/120V 230V 200/208V 220/230V 460/480V	A HP HP HP HP HP	17 1 3 5 5 5 10
Yielded mechanical pe	erformance for single-phase AC motor	at 600V 110/120V 230V 200/208V 220/230V 460/480V	A HP HP HP HP HP	17 1 3 5 5 5 10
Yielded mechanical pe	for single-phase AC motor for three-phase AC motor	at 600V 110/120V 230V 200/208V 220/230V 460/480V	A HP HP HP HP HP	17 1 3 5 5 5 10
Yielded mechanical pe	erformance for single-phase AC motor for three-phase AC motor Contactor	at 600V 110/120V 230V 200/208V 220/230V 460/480V 575/600V	A HP HP HP HP HP	17 1 3 5 5 5 10 15
Yielded mechanical pe	for single-phase AC motor for three-phase AC motor	at 600V 110/120V 230V 200/208V 220/230V 460/480V 575/600V AC current	A HP HP HP HP HP	17 1 3 5 5 5 10 15
Yielded mechanical pe	erformance for single-phase AC motor for three-phase AC motor Contactor	at 600V 110/120V 230V 200/208V 220/230V 460/480V 575/600V	A HP HP HP HP HP HP	17 1 3 5 5 5 10 15 32
Yielded mechanical pe	erformance for single-phase AC motor for three-phase AC motor Contactor	at 600V 110/120V 230V 200/208V 220/230V 460/480V 575/600V AC current AC voltage AC current	A HP HP HP HP HP A	17 1 3 5 5 5 10 15 32 600 10
Yielded mechanical pe	erformance for single-phase AC motor for three-phase AC motor Contactor	at 600V 110/120V 230V 200/208V 220/230V 460/480V 575/600V AC current AC voltage	A HP HP HP HP HP A V A	17 1 3 5 5 5 10 15 32 600
Yielded mechanical pe	erformance for single-phase AC motor for three-phase AC motor Contactor	at 600V 110/120V 230V 200/208V 220/230V 460/480V 575/600V AC current AC voltage AC current DC voltage	A HP HP HP HP HP HP V A V	17 1 3 5 5 5 10 15 32 600 10 250
Yielded mechanical pe	erformance for single-phase AC motor for three-phase AC motor Contactor Auxiliary contacts	at 600V 110/120V 230V 200/208V 220/230V 460/480V 575/600V AC current AC voltage AC current DC voltage	A HP HP HP HP HP HP V A V	17 1 3 5 5 5 10 15 32 600 10 250 1
Yielded mechanical pe	erformance for single-phase AC motor for three-phase AC motor Contactor Auxiliary contacts	at 600V 110/120V 230V 200/208V 220/230V 460/480V 575/600V AC current AC voltage AC current DC voltage	A HP HP HP HP HP HP V A V	17 1 3 5 5 5 10 15 32 600 10 250 1
Yielded mechanical pe General USE	erformance for single-phase AC motor for three-phase AC motor Contactor Auxiliary contacts	at 600V 110/120V 230V 200/208V 220/230V 460/480V 575/600V AC current AC voltage AC current DC voltage	A HP HP HP HP HP HP V A V	17 1 3 5 5 5 10 15 32 600 10 250 1
Yielded mechanical per General USE	erformance for single-phase AC motor for three-phase AC motor Contactor Auxiliary contacts	at 600V 110/120V 230V 200/208V 220/230V 460/480V 575/600V AC current AC voltage AC current DC voltage	A HP HP HP HP HP HP V A V	17 1 3 5 5 5 10 15 32 600 10 250 1
Yielded mechanical per General USE	erformance for single-phase AC motor for three-phase AC motor Contactor Auxiliary contacts	at 600V 110/120V 230V 200/208V 220/230V 460/480V 575/600V AC current AC voltage AC current DC voltage DC current	A HP HP HP HP HP KP HP	17 1 3 5 5 5 10 15 32 600 10 250 1 SI - A600

BF18T0A110

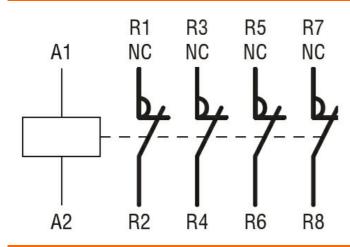


BF18T0A110 FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 32A, AC COIL 50/60HZ, 110VAC, 4NC

Storage temperature			
	min	°C	-60
	max	°C	80
Max altitude		m	3000
Resistance & Protection			
Pollution degree			3
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



BF18T0A110 FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 32A, AC COIL 50/60HZ, 110VAC, 4NC

ETIM classification

EAC

ETIM 8.0

EC000066 -Power contactor, AC switching