



Product designation			Power contacto
Product type designation			BF18
Contact characteristics			
Number of poles		Nr.	3
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		А	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-3 (T≤55°C)			
	230V	kW	4
	400V	kW	7.5
	415V	kW	9
	440V	kW	9
	500V	kW	10
	690V	kW	10
Rated operational power AC-1 (T≤40°C)			
	230V	kW	12
	400V	kW	21
	500V	kW	26
	690V	kW	36
IEC max current le in DC1 with $L/R \le 1$ ms with 1 poles in series			
	≤24V	А	17
	48V	А	15
	75V	А	15
	110V	А	6
	220V	А	-
IEC max current le in DC1 with $L/R \le 1$ ms with 2 poles in series			
	≤24V	А	20
	48V	А	20
	75V	А	20
	110V	А	13
	220V	А	1
IEC max current le in DC1 with $L/R \le 1$ ms with 3 poles in series			
	≤24V	А	22
	48V	А	22
	75V	А	20
	110V	А	16



	220V	А	11	
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series				
	≤24V	А	22	
	48V	А	22	
	75V	А	20	
	110V	А	18	
	220V	А	13	
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series				
	≤24V	А	12	
	48V	А	11	
	75V	А	11	
	110V	А	2	
	220V	А	_	
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series				
	≤24V	А	15	
	48V	A	13	
	40V 75V	A	13	
	110V	A	8	
	220V	A	8 2	
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series	2201	A	۷	
The max current le in DC3-DC3 with $L/R \ge 15$ ms with 3 poles in series	≤24V	А	18	
	≤24V 48V			
		A	18	
	75V	A	16	
	110V	A	12	
	220V	A	6	
IEC max current le in DC3-DC5 with $L/R \le 15$ ms with 4 poles in series	-0.0.4		4.0	
	≤24V	A	18	
	48V	A	18	
	75V	A	16	
	110V	A	13	
	220V	A	8	
Short-time allowable current for 10s (IEC/EN60947-1)		А	200	
Protection fuse				
	gG (IEC)	А	32	
	aM (IEC)	A	20	
Making capacity (RMS value)		Α	180	
Breaking capacity at voltage				
	440V	А	144	
	500V	А	120	
	690V	А	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	Ibin	1.1	
	max	Ibin	1.5	
Tightening torque for coil terminal	max			
	min	Nm	0.8	
	max	Nm	1	
	min	Ibin	0.8	
	1111()		0.0	



Max augebee of the		max	lbin	0.74
	simultaneously connectable		Nr.	2
Conductor section				
	AWG/Kcmil			10
	Flavible w/a lug conductor contian	max		10
	Flexible w/o lug conductor section	min	mm²	1
			mm²	6
	Flexible c/w lug conductor section	max	111111	0
	Flexible C/W lug conductor section	min	mm²	1
		max	mm²	4
	Flexible with insulated spade lug conductor section	max	111111	4
	The side with insulated space by conductor section	min	mm²	1
		max	mm²	4
		Пах		IP20 when
Power terminal prote	ction according to IEC/EN 60529			properly wired
Mechanical features				
Operating position				
		normal		Vertical plan
		allowable		±30°
				Screw / DIN rai
Fixing				35mm
Weight			g	496
Conductor section				
	AWG/kcmil conductor section			
		max		10
Auxiliary contact char	acteristics			
Thermal current Ith			А	10
IEC/EN 60947-5-1 de	esignation			A600 - P600
Operating current AC				
		230V	А	3
		400V	А	1.9
		500V	А	1.4
Operating current DC	212			
1 5		110V	А	5.7
Operating current DC	:13			•••
		24V	А	5.7
		48V	A	2.9
		60V	A	2.3
		110V	A	1.25
		125V	A	1.1
		220V	A	0.55
		600V	A	0.2
Operations				
Mechanical life			cycles	20000000
Electrical life			cycles	1600000
			0,000	
Safety related data	10d according to EN/ISO 13489-1			
Safety related data Performance level B1			cycles	1600000
	5	heal hater		
		rated load	•	
Performance level B1	m	rated load lechanical load	cycles	2000000
Performance level B1			•	



AC operating voltage

of 50/60Hz coil powered at 50Hz

			max	%Us	55
DC coil operating				,	
DC rated control voltage	ge			V	48
DC operating voltage					
	pick-up				
			min	%Us	80
			max	%Us	110
	drop-out				
			min	%Us	10
			max	%Us	40
Average coil consump	tion ≤20°C		in much	14/	0.4
			in-rush	W	2.4
Max cycles frequency			holding	W	2.4
Max cycles nequency Mechanical operation				cycles/h	3600
Operating times				Cycles/II	3000
Average time for Us co	ontrol				
	in AC				
	-	Closing NO			
		č	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	m 0	7
			min max	ms ms	7 18
	in DC		Шал	1113	10
		Closing NO			
			min	ms	75
			max	ms	91
		Opening NO			
		-	min	ms	15
			max	ms	19
		Closing NC			
			min	ms	24
			max	ms	30
		Opening NC			67
			min	ms	67 81
UL technical data			max	ms	81
Full-load current (FLA)	for three-phase /	AC motor			
	ior unee-pliase P		at 480V	А	14
			at 600V	A	17
Yielded mechanical pe	erformance		4,0001		
	for single-phase	AC motor			
	5.5 p. 1900		110/120V	HP	1
			230V	HP	3



BF1801L048 THREE-POLE CONTACTOR,

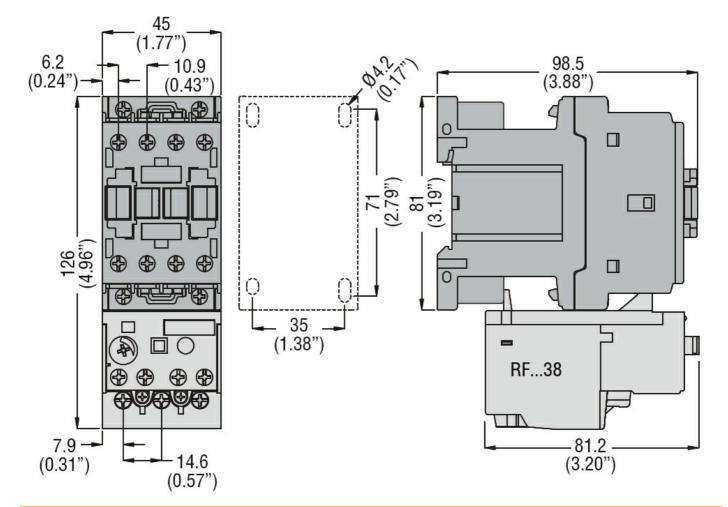
IEC OPERATING CURRENT IE (AC3) = 18A, DC COIL LOW
CONSUMPTION, 48VDC, 1NC AUXILIARY CONTACT

for thr	ee-phase AC motor			
		200/208V	HP	5
		220/230V	HP	5
		460/480V	HP	10
		575/600V	HP	15
General USE				
Conta	ctor			
		AC current	А	32
Auxilia	ary contacts			
		AC voltage	V	600
		AC current	А	10
		DC voltage	V	250
		DC current	А	1
Short-circuit protection fuse, 6	00V			
High fa	ault			
-		Short circuit current	kA	100
		Fuse rating	А	60
		Fuse class		J
Stand	ard fault			
		Short circuit current	kA	5
		Fuse rating	А	80
Contact rating of auxiliary cont	acts according to UL			A600 - P600
Ambient conditions				
Temperature				
-	ating temperature			
	0	min	°C	-50
		max	°C	70
Storad	ge temperature			
		min	°C	-60
		max	°C	80
Max altitude			m	3000
Resistance & Protection				
Pollution degree				3

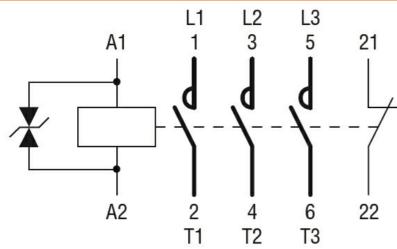
BF1801L048



THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 18A, DC COIL LOW CONSUMPTION, 48VDC, 1NC AUXILIARY CONTACT



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
Cortificatos	

Certificates



	CCC
	cULus
	EAC
ETIM classification	

ETIM 8.0

EC000066 -Power contactor, AC switching