



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)	A	32
	AC-1 (≤55°C)	A	26
	AC-1 (≤70°C)	A	23
	AC-3 (≤440V ≤55°C)	A	18
	AC-4 (400V)	A	8.5
Rated operational power AC-1 (T≤40°C)	0001/		10
	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	-0.1) (47
	≤24V	A	17
	48V 75V	A	15
	75V 110V	A A	15
	220V	A	6
IFC may autrent lo in DC1 with $L/P < 1$ may with 2 pales in series	220 V	A	_
IEC max current le in DC1 with $L/R \le 1$ ms with 2 poles in series	≤24V	۸	20
	≤24∨ 48V	A A	20 20
	48V 75V	A	20
	110V	A	13
	220V	A	1
IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series	220 V	Λ	I
	≤24V	А	22
	48V	A	22
	48V 75V	A	20
	110V	A	16
	220V	A	11
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series	2201	~~	
	≤24V	А	22
	48V	A	22
	48V 75V	A	20
	110V	A	18
	220V	A	13
	220 V	<i>·</i> · ·	



IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 pol	es in series		
	≤24V	А	12
	48V	А	11
	75V	Α	11
	110V	А	2
	220V	А	-
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 pol	es in series		
	≤24V	А	15
	48V	А	13
	75V	А	13
	110V	А	8
	220V	А	2
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 pol	es in series		
	≤24V	А	18
	48V	А	18
	75V	А	16
	110V	А	12
	220V	А	6
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 pol			
	≤24V	А	18
	48V	A	18
	75V	A	16
	110V	A	13
	220V	A	8
Short-time allowable current for 10s (IEC/EN60947-1)	2201	A	200
Protection fuse		7.	200
	gG (IEC)	А	32
	aM (IEC)	A	20
Making capacity (RMS value)		A	180
Breaking capacity at voltage		~	100
Dreaking capacity at voltage	440V	А	144
	500V	A	120
	690V	A	94
Pasistanca par polo (avorago valuo)	8907	 mΩ	2.5
Resistance per pole (average value) Power dissipation per pole (average value)		11152	2.0
rower dissipation per pole (average value)	lth	W	2.6
	AC-3	W	0.8
Tightoping torque for terminole	AC-3	VV	0.0
Tightening torque for terminals		N	1 5
	min	Nm	1.5
	max	Nm	1.8
	min	Ibin	1.1
The later is a standard for a still to see the later	max	lbin	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			
	min	mm²	1

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

				•	-
			ax mr	n²	6
	Flexible c/w lug conductor				
			nin mr		1
			ax mr	n²	4
	Flexible with insulated spa	-			
		n	nin mr		1
		m	ax mr	n²	4
Power terminal protect	ction according to IEC/EN 60	529			IP20 when
	č				properly wired
Mechanical features					
Operating position					
		norn			Vertical plan
		allowal	ble		±30°
Fixing					Screw / DIN rail
					35mm
Weight			g		366
Conductor section					
	AWG/kcmil conductor sect				
		m	ax		10
Operations					
Mechanical life			сус		2000000
Electrical life			сус	les	1600000
Safety related data					
Performance level B1	0d according to EN/ISO 134				
		rated lo	,	les	1600000
		mechanical lo	ad cyc	les	2000000
	ing to IEC/EN 609474-4-1				yes
EMC compatibility					yes
AC coil operating					
AC coil operating Rated AC voltage at 6	60Hz		V	/	yes 48
AC coil operating	60Hz		V	1	
AC coil operating Rated AC voltage at 6	0Hz of 60Hz coil powered at 60)Hz	V	/	
AC coil operating Rated AC voltage at 6	of 60Hz coil powered at 60	ck-up			48
AC coil operating Rated AC voltage at 6	of 60Hz coil powered at 60	ck-up	nin %l	Js	<u>48</u> 80
AC coil operating Rated AC voltage at 6	of 60Hz coil powered at 60 pic	ck-up n m		Js	48
AC coil operating Rated AC voltage at 6	of 60Hz coil powered at 60 pic	ck-up n m op-out	nin %L ax %L	Js Js	48 80 110
AC coil operating Rated AC voltage at 6	of 60Hz coil powered at 60 pic	ck-up n m op-out n	nin %L ax %L nin %L	Js Js Js	48 80 110 20
AC coil operating Rated AC voltage at 6 AC operating voltage	of 60Hz coil powered at 60 pic	ck-up n m op-out n	nin %L ax %L	Js Js Js	48 80 110
AC coil operating Rated AC voltage at 6	of 60Hz coil powered at 60 pic dro umption at 20°C	ck-up n op-out n m	nin %L ax %L nin %L	Js Js Js	48 80 110 20
AC coil operating Rated AC voltage at 6 AC operating voltage	of 60Hz coil powered at 60 pic	ck-up n op-out n Mz	nin %L ax %L nin %L ax %L	Js Js Js Js	48 80 110 20 55
AC coil operating Rated AC voltage at 6 AC operating voltage	of 60Hz coil powered at 60 pic dro umption at 20°C	ck-up n m op-out n m)Hz)Hz	nin %L ax %L nin %L ax %L	Js Js Js Js	48 80 110 20 55 75
AC coil operating Rated AC voltage at 6 AC operating voltage	of 60Hz coil powered at 60 pic dro umption at 20°C of 60Hz coil powered at 60	ck-up n op-out n Mz	nin %L ax %L nin %L ax %L sh V/ ng V/	s Js Js Js A A	48 80 110 20 55 75 9
AC coil operating Rated AC voltage at 6 AC operating voltage AC average coil cons Dissipation at holding	of 60Hz coil powered at 60 pic dro umption at 20°C of 60Hz coil powered at 60 ≤20°C 50Hz	ck-up n m op-out n m)Hz)Hz	nin %L ax %L nin %L ax %L	s Js Js Js A A	48 80 110 20 55 75
AC coil operating Rated AC voltage at 6 AC operating voltage AC average coil cons Dissipation at holding Max cycles frequency	of 60Hz coil powered at 60 pic dro umption at 20°C of 60Hz coil powered at 60 ≤20°C 50Hz	ck-up n m op-out n m)Hz)Hz	nin %L ax %L nin %L ax %L sh V/ ng V/ N	Js Js Js Js A A	48 80 110 20 55 75 9 2.5
AC coil operating Rated AC voltage at 6 AC operating voltage AC average coil cons Dissipation at holding Max cycles frequency Mechanical operation	of 60Hz coil powered at 60 pic dro umption at 20°C of 60Hz coil powered at 60 ≤20°C 50Hz	ck-up n m op-out n m)Hz)Hz	nin %L ax %L nin %L ax %L sh V/ ng V/ N	Js Js Js Js A A	48 80 110 20 55 75 9
AC coil operating Rated AC voltage at 6 AC operating voltage AC average coil cons Dissipation at holding Max cycles frequency Mechanical operation Operating times	of 60Hz coil powered at 60 pic dro umption at 20°C of 60Hz coil powered at 60 ≤20°C 50Hz	ck-up n m op-out n m)Hz)Hz	nin %L ax %L nin %L ax %L sh V/ ng V/ N	Js Js Js Js A A	48 80 110 20 55 75 9 2.5
AC coil operating Rated AC voltage at 6 AC operating voltage AC average coil cons Dissipation at holding Max cycles frequency Mechanical operation	of 60Hz coil powered at 60 pic dre umption at 20°C of 60Hz coil powered at 60 ≤20°C 50Hz	ck-up n m op-out n m)Hz)Hz	nin %L ax %L nin %L ax %L sh V/ ng V/ N	Js Js Js Js A A	48 80 110 20 55 75 9 2.5
AC coil operating Rated AC voltage at 6 AC operating voltage AC average coil cons Dissipation at holding Max cycles frequency Mechanical operation Operating times	of 60Hz coil powered at 60 pic dro umption at 20°C of 60Hz coil powered at 60 ≤20°C 50Hz control in AC	ck-up n mop-out n)Hz)Hz in-ru holdi	nin %L ax %L nin %L ax %L sh V/ ng V/ N	Js Js Js Js A A	48 80 110 20 55 75 9 2.5
AC coil operating Rated AC voltage at 6 AC operating voltage AC average coil cons Dissipation at holding Max cycles frequency Mechanical operation Operating times	of 60Hz coil powered at 60 pic dro umption at 20°C of 60Hz coil powered at 60 ≤20°C 50Hz control in AC	ck-up n m op-out n)Hz)Hz in-ru holdi	nin %L ax %L nin %L ax %L sh V/ ng V/ W cycle	Js Js Js Js A A	48 80 110 20 55 75 9 2.5 3600
AC coil operating Rated AC voltage at 6 AC operating voltage AC average coil cons Dissipation at holding Max cycles frequency Mechanical operation Operating times	of 60Hz coil powered at 60 pic dro umption at 20°C of 60Hz coil powered at 60 ≤20°C 50Hz control in AC	ck-up n m op-out n)Hz)Hz in-ru holdi	nin %L ax %L nin %L ax %L sh V/ ng V/ N	Js Js Js Js A A V	48 80 110 20 55 75 9 2.5 3600 8
AC coil operating Rated AC voltage at 6 AC operating voltage AC average coil cons Dissipation at holding Max cycles frequency Mechanical operation Operating times	of 60Hz coil powered at 60 pic dra umption at 20°C of 60Hz coil powered at 60 ≤20°C 50Hz control in AC	ck-up n m op-out n M DHz in-ru holdi	nin %L ax %L nin %L ax %L sh V/ ng V/ W cycle	Js Js Js Js A A V es/h	48 80 110 20 55 75 9 2.5 3600
AC coil operating Rated AC voltage at 6 AC operating voltage AC average coil cons Dissipation at holding Max cycles frequency Mechanical operation Operating times	of 60Hz coil powered at 60 pic dra umption at 20°C of 60Hz coil powered at 60 ≤20°C 50Hz control in AC	ck-up n mop-out n MHz OHZ in-ru holdi	nin %L ax %L ax %L ax %L sh V/ ng V/ N cycle nin m ax m	Js Js Js Js A A V es/h	48 80 110 20 55 75 9 2.5 3600 8 24
AC coil operating Rated AC voltage at 6 AC operating voltage AC average coil cons Dissipation at holding Max cycles frequency Mechanical operation Operating times	of 60Hz coil powered at 60 pic dra umption at 20°C of 60Hz coil powered at 60 ≤20°C 50Hz control in AC	ck-up n mop-out n MHz OHZ in-ru holdi	nin %L ax %L nin %L ax %L sh V/ ng V/ ng V/ ng V/ ng V/	Js Js Js Js A A V es/h s s	48 80 110 20 55 75 9 2.5 3600 8

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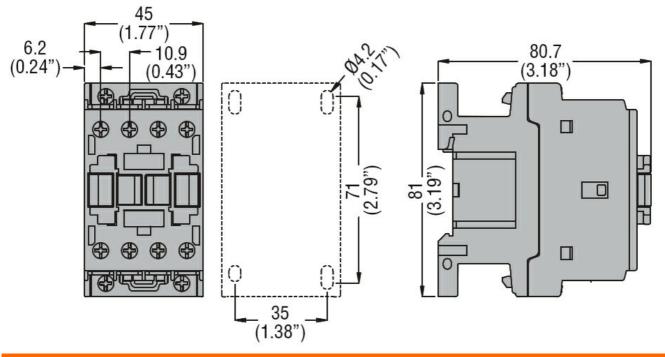
FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 32A, AC COIL 60HZ,

48VAC

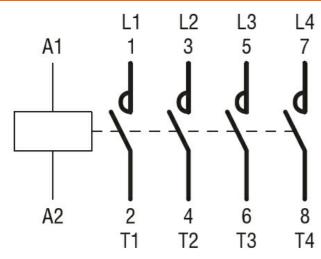
	Closing NC			
		min	ms	14
		max	ms	28
	Opening NC			-
		min	ms	7
UL technical data		max	ms	18
) for three-phase AC motor			
	for three-phase AC motor	at 480V	۸	14
		at 600V	A A	17
Yielded mechanical pe	orformance	at 000 v	A	17
neideu mechanicai pe	for single-phase AC motor			
	tor single-phase AC motor	110/120V	HP	1
		230V	HP	1 3
	for three-phase AC motor	230 V		5
	tor three-phase AC motor	200/208V	HP	5
		220/230V	HP	5
		460/480V	HP	10
		575/600V	HP	15
General USE		010,0001		
	Contactor			
	Contactor	AC current	А	32
Short-circuit protectior	n fuse. 600V			
	High fault			
		Short circuit current	kA	100
		Fuse rating	А	60
		Fuse class		J
	Standard fault			
		Short circuit current	kA	5
		Fuse rating	А	80
Ambient conditions				
Temperature				_
	Operating temperature			
		min	°C	-50
		max	°C	70
	Storage temperature			
		min	°C	-60
		max	°C	80
Max altitude			m	3000
Resistance & Protection	on			
Pollution degree				3
Dimensions				



BF18T4A04860 FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 32A, AC COIL 60HZ, 48VAC



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