



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

**BF18T4A04860** The characteristics described in this document are subject to updates or modifications at any time. The descriptions, technical and functional information, illustrations and instructions in this brochure are purely illustrative, and are consequently not contractually binding

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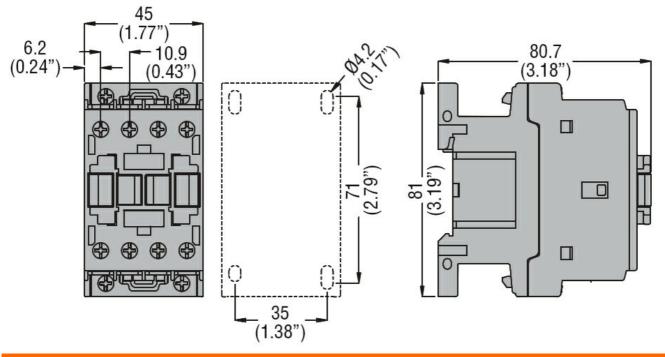
FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 32A, AC COIL 60HZ,

48VAC

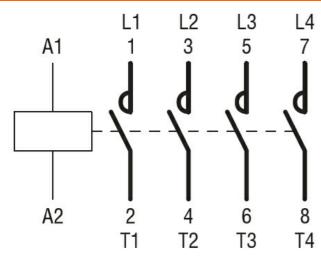
	Closing NC			
		min	ms	14
		max	ms	28
	Opening NC			-
		min	ms	7
UL technical data		max	ms	18
	) for three-phase AC motor			
	for three-phase AC motor	at 480V	۸	14
		at 600V	A A	17
Yielded mechanical pe	orformance	at 000 v	A	17
neideu mechanicai pe	for single-phase AC motor			
	tor single-phase AC motor	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