BF12T4A048



Product designation Product type designation Contact characteristics

FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 28A, AC COIL 50/60HZ, 48VAC



	Power contactor BF12
nr.	4
V	690
kV	6

Number of poles		nr.	4
Rated insulation voltage Ui		V	690
Rated impulse withstand voltage Uimp		kV	6
Operating frequency			
	Operational frequency min	Hz	25
	Operational frequency max	Hz	400
Conventional free air thermal current Ith		А	28
Operating current			
	Operational current AC1 (≤40°C)	А	28
	Operational current AC3 (≤440V ≤55°C)	А	12
	Operational current AC4 (400V)	А	7.9
Rated operational power AC1 (T≤40°C)			
	230V	kW	10
	400V	kW	18
	500V	kW	23
	690V	kW	32
Rated operational power AC3 (T≤55°C)			
	230V	kW	3.2
	400V	kW	5.7
	415V	kW	6.2
	440V	kW	6.2
	500V	kW	7.5
	690V	kW	10
Short-time allowable current for 10s (IEC/EN	prt-time allowable current for 10s (IEC/EN60947-1) A 150		
Protection fuse			
	gG (IEC)	А	32
	aM (IEC)	А	12
Making capacity (RMS value)		А	120
Breaking capacity at voltage			
	Breaking capacity 440V	А	96
	Breaking capacity 500V	А	96
	Breaking capacity 690V	Α	94
Resistance per pole (average value)		mΩ	2.5
Power dissipation per pole (average value)			
	Power dissipation pole (average value) Ith	W	2
	AC3	W	0.4
Tightening torque for terminals			
	min	Nm	1.5
	max	Nm	1.8
	min	lbft	1.1
	max	lbft	1.5

Tightening torque for coil terminal



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48VAC

max number of wires simultaneously connectable Conductor section AWG min max Flexible w/o lug conductor section min min min min min min min min min mi	Nm Nm Ibft Ibft nr. nm² nm²	0.8 1 0.8 0.74 2 16 10 1
min I max number of wires simultaneously connectable Conductor section AWG 	lbft lbft nr.	0.8 0.74 2 16 10
max number of wires simultaneously connectable Conductor section AWG min max Flexible w/o lug conductor section min min min min min min min min min mi	nr.	0.74 2 16 10
max number of wires simultaneously connectable Conductor section AWG min max Flexible w/o lug conductor section min n	nr.	2 16 10
Conductor section AWG min max Flexible w/o lug conductor section min n	nm²	16 10
AWG min max Flexible w/o lug conductor section min n		10
min max Flexible w/o lug conductor section min n		10
max Flexible w/o lug conductor section min n		10
Flexible w/o lug conductor section min n		
min n		1
		1
	nm²	_
		6
Flexible c/w lug conductor section		
	nm²	1
max n	nm²	4
Flexible with insulated spade lug conductor section		
min n	nm²	1
max n	nm²	4
Power terminal protection according to IEC/EN 60529		IP20 when wire
Auxiliary contact characteristics		
Dperational current AC1 (≤40°C)	А	28
Operating current DC13		
	A	Screw / DIN rai 35mm
Ambient conditions		55mm
Temperature		
Operating temperature		
	°C	-50
	°C	-50 70
	U	70
Storage temperature	•••	
	°C	-60
	°C	80
	m	3000
Operating position		
normal		Vertical plan
allowable		±30°
Mounting		Screw / DIN rai
wounting		35mm
Weight	g	0.36
Operations		
Vechanical life Cy	/cles	20000000
	/cles	2000000
Safety related data		
Performance level B10d according to EN/ISO 13489-1		
-	Cicli	2000000
	Cicli	20000000
Mirror contats according to IEC/EN 609474-4-1		yes
EMC compatibility		yes
AC coil operating		
AC operating voltage		
of 50/60Hz coil powered at 50Hz		

pick-up

%Us 0.8 min

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		max	%Us	1.1
	drop-out			
	·	min	%Us	0.2
		max	%Us	0.55
	of 50/60Hz coil powered at 60Hz			
	, pick-up			
		min	%Us	0.85
		max	%Us	1.1
	drop-out			
		min	%Us	0.2
		max	%Us	0.55
	of 60Hz coil powered at 60Hz			
	pick-up			
		min	%Us	0.8
		max	%Us	1.1
	drop-out			
		min	%Us	0.2
		max	%Us	0.55
AC operating voltage				
5 1 5 5 5 5	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
		11-10511		
Dissipation at holding s	≤20°C 50Hz	holding	VA	9
Dissipation at holding s Max cycles frequency	≤20°C 50Hz			
Max cycles frequency		holding	VA W	9 2.5
Max cycles frequency Mechanical operations		holding	VA	9 2.5
Max cycles frequency Mechanical operations Operating times		holding	VA W	9 2.5
Max cycles frequency Mechanical operations	ontrol	holding	VA W	9 2.5
Max cycles frequency Mechanical operations Operating times	ontrol in AC	holding	VA W	9 2.5
Max cycles frequency Mechanical operations Operating times	ontrol	holding	VA W Cycles/h	9 2.5 3600
Max cycles frequency Mechanical operations Operating times	ontrol in AC	holding	VA W	9 2.5
Max cycles frequency Mechanical operations Operating times	ontrol in AC	holding	VA W Cycles/h	9 2.5 3600 8
Max cycles frequency Mechanical operations Operating times	ontrol in AC Closing NO	holding	VA W Cycles/h	9 2.5 3600 8
Max cycles frequency Mechanical operations Operating times	ontrol in AC Closing NO	holding min max	VA W Cycles/h ms ms	9 2.5 3600 8 24
Max cycles frequency Mechanical operations Operating times	ontrol in AC Closing NO	holding min max min	VA W Cycles/h ms ms ms	9 2.5 3600 8 24 10
Max cycles frequency Mechanical operations Operating times	ontrol in AC Closing NO Opening NO	holding min max min	VA W Cycles/h ms ms ms	9 2.5 3600 8 24 10
Max cycles frequency Mechanical operations Operating times	ontrol in AC Closing NO Opening NO	holding min max min max	VA W Cycles/h ms ms ms ms	9 2.5 3600 8 24 10 20
Max cycles frequency Mechanical operations Operating times	ontrol in AC Closing NO Opening NO	holding min max min max min	VA W Cycles/h ms ms ms ms ms	9 2.5 3600 8 24 10 20 14
Max cycles frequency Mechanical operations Operating times	in AC Closing NO Opening NO Closing NC	holding min max min max min max	VA W Cycles/h ms ms ms ms ms ms	9 2.5 3600 8 24 10 20 14 28
Max cycles frequency Mechanical operations Operating times	in AC Closing NO Opening NO Closing NC	holding min max min max min	VA W Cycles/h ms ms ms ms ms ms ms	9 2.5 3600 8 24 10 20 14 28 7
Max cycles frequency Mechanical operations Operating times	in AC Closing NO Opening NO Closing NC	holding min max min max min max min	VA W Cycles/h ms ms ms ms ms ms	9 2.5 3600 8 24 10 20 14 28
Max cycles frequency Mechanical operations Operating times Average time for Us co	in AC Closing NO Opening NO Closing NC Opening NC	holding min max min max min max min	VA W Cycles/h ms ms ms ms ms ms ms	9 2.5 3600 8 24 10 20 14 28 7
Max cycles frequency Mechanical operations Operating times Average time for Us co	in AC Closing NO Opening NO Closing NC	holding min max min max min max min	VA W Cycles/h ms ms ms ms ms ms ms	9 2.5 3600 8 24 10 20 14 28 7
Max cycles frequency Mechanical operations Operating times Average time for Us co	in AC Closing NO Opening NO Closing NC Opening NC	holding min max min max min max	VA W Cycles/h ms ms ms ms ms ms ms ms ms	9 2.5 3600 8 24 10 20 14 28 7 18
Max cycles frequency Mechanical operations Operating times Average time for Us co	ontrol in AC Closing NO Opening NO Closing NC Opening NC	holding min max min max min max min max at 480V	VA W Cycles/h ms ms ms ms ms ms ms ms ms	9 2.5 3600 8 24 10 20 14 28 7 18 7 18
Max cycles frequency Mechanical operations Operating times Average time for Us co UL technical data Full-load current (FLA)	ontrol in AC Closing NO Opening NO Closing NC Opening NC for three-phase AC motor	holding min max min max min max min max at 480V	VA W Cycles/h ms ms ms ms ms ms ms ms ms	9 2.5 3600 8 24 10 20 14 28 7 18 7 18
Max cycles frequency Mechanical operations Operating times Average time for Us co UL technical data Full-load current (FLA)	ontrol in AC Closing NO Opening NO Closing NC Opening NC	holding min max min max min max min max at 480V at 600V	VA W Cycles/h ms ms ms ms ms ms ms ms as as	9 2.5 3600 8 24 10 20 14 28 7 18 7 18
Max cycles frequency Mechanical operations Operating times Average time for Us co UL technical data Full-load current (FLA)	ontrol in AC Closing NO Opening NO Closing NC Opening NC for three-phase AC motor	holding min max min max min max min max at 480V	VA W Cycles/h ms ms ms ms ms ms ms ms ms	9 2.5 3600 8 24 10 20 14 28 7 18 7 18

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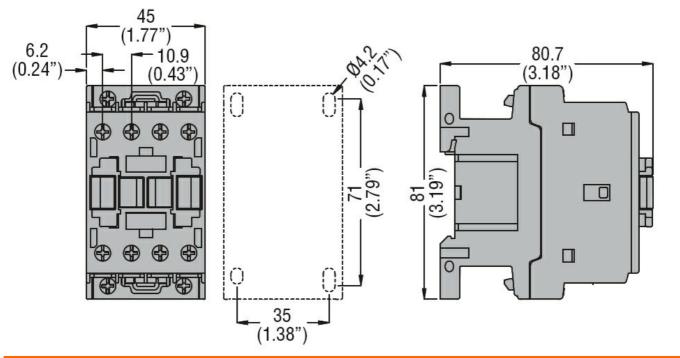
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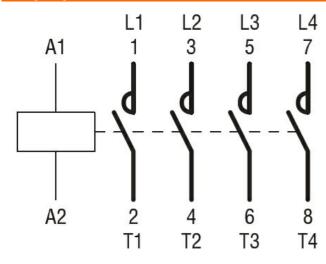
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	for three-phase AC motor			
		at 200/208V	hp	5
		at 220/230V	hp	5
		at 460/480V	hp	7.5
		at 575/600V	hp	10
General USE				
	Contactor			
		AC current	А	28
Other features				

Pollution degree Dimensions



Wiring diagrams



Certifications and compliance

Certifications

CSA C22.2 n° 60947-1	
CSA C22.2 n° 60947-4-1	
IEC/EN 60947-1	
IEC/EN 60947-4-1	

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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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	UL 60947-1	
	UL 60947-4-1	
Compliance		
	CCC	
	cULus	
	EAC	

ETIM 6 classification

EC000066 - Power contactor, AC switching