

BF09T4A02460 FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 25A, AC COIL 60HZ, 24VAC



Product designation Product type designation			Power contactor BF09
Contact characteristics			DI 03
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		А	25
Operational current le			
	AC-1 (≤40°C)	А	25
	AC-1 (≤55°C)	А	20
	AC-1 (≤70°C)	А	18
	AC-3 (≤440V ≤55°C)	А	9
	AC-4 (400V)	А	4.9
Rated operational power AC-1 (T≤40°C)			
	230V	kW	9.5
	400V	kW	16
	500V	kW	21
	690V	kW	27
IEC max current le in DC1 with $L/R \le 1$ ms with 1 poles in series	-0.11/		
	≤24V	A	15
	48V	A	13
	75V 110V	A A	12
	220V	A	6
IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series	220 V	A	_
	≤24V	А	18
	48V	A	18
	48V 75V	A	17
	110V	A	12
	220V	A	1
IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series			
- ···· F-···· F-····	≤24V	А	20
	48V	A	20
	75V	А	20
	110V	А	15
	220V	А	10
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series			
	≤24V	А	20
	48V	А	20
	75V	А	20
	110V	А	16
	220V	А	12



IEC max current le in DC3-DC5 with $L/R \le 15$ ms with 1 poles in series			
	≤24V	А	10
	48V	А	9
	75V	А	8
	110V	А	2
	220V	А	_
IEC max current le in DC3-DC5 with $L/R \le 15$ ms with 2 poles in series			
	≤24V	А	13
	48V	А	11
	75V	А	10
	110V	А	7
	220V	А	2
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series			
	≤24V	А	15
	48V	А	15
	75V	А	13
	110V	А	11
	220V	А	6
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series		-	
	≤24V	А	15
	48V	A	15
	75V	A	15
	110V	A	12
	220V	A	7
Short-time allowable current for 10s (IEC/EN60947-1)	2201	A	150
Protection fuse		7.	100
	gG (IEC)	А	25
	aM (IEC)	A	10
Making capacity (RMS value)		A	90
Breaking capacity at voltage		Λ	50
Dreaking capacity at voltage	440V	А	72
	440V 500V	A	72
	690V		
	6907	A	71
Resistance per pole (average value)		mΩ	2.5
Power dissipation per pole (average value)	14h	14/	1.0
	Ith	W	1.6
Tielde sign de muse fan te meinele	AC-3	W	0.2
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			
	min	Nm	0.8
	max	Nm	1
	min	lbin	0.8
	max	lbin	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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		v mm²	c
	ma Flexible c/w lug conductor section	x mm²	6
	mi	n mm²	1
	ma	_	4
	Flexible with insulated spade lug conductor section		•
	mi	n mm²	1
	ma	•	4
			IP20 when
-	ction according to IEC/EN 60529		properly wired
Mechanical features			
Operating position			
	norma		Vertical plan
	allowabl	Э	±30°
Fixing			Screw / DIN rail 35mm
Weight		g	356
Conductor section			
	AWG/kcmil conductor section		
	ma	x	10
Operations			
Mechanical life		cycles	2000000
Electrical life		cycles	2000000
Safety related data			
Performance level B1	0d according to EN/ISO 13489-1		000000
	rated loa mechanical loa	,	2000000 20000000
Mirror contate accordi	ing to IEC/EN 609474-4-1	d cycles	yes
EMC compatibility			yes
AC coil operating			yes
Rated AC voltage at 6	j0Hz	V	24
AC operating voltage			
1 0 0	of 60Hz coil powered at 60Hz		
	pick-up		
	mi	n %Us	80
	ma		80 110
	ma drop-out	x %Us	110
	ma drop-out mi	x %Us n %Us	110 20
AC 20022222 1	ma drop-out mi ma	x %Us n %Us	110
AC average coil const	ma drop-out mi umption at 20°C	x %Us n %Us	110 20
AC average coil const	ma drop-out mi ma umption at 20°C of 60Hz coil powered at 60Hz	x %Us n %Us x %Us	110 20 55
AC average coil const	ma drop-out mi umption at 20°C of 60Hz coil powered at 60Hz in-rus	x %Us n %Us <u>x %Us</u> n VA	110 20 55 75
	ma drop-out mi umption at 20°C of 60Hz coil powered at 60Hz in-rus holdin	x %Us n %Us <u>x %Us</u> n VA g VA	110 20 55 75 9
Dissipation at holding	ma drop-out mi ma umption at 20°C of 60Hz coil powered at 60Hz in-rus holdin ≤20°C 50Hz	x %Us n %Us <u>x %Us</u> n VA	110 20 55 75
Dissipation at holding Max cycles frequency	ma drop-out mi ma umption at 20°C of 60Hz coil powered at 60Hz in-rus holdin ≤20°C 50Hz	x %Us n %Us <u>x %Us</u> n VA g VA	110 20 55 75 9 2.5
Dissipation at holding	ma drop-out mi ma umption at 20°C of 60Hz coil powered at 60Hz in-rus holdin ≤20°C 50Hz	x %Us n %Us <u>x %Us</u> n VA g VA W	110 20 55 75 9 2.5
Dissipation at holding Max cycles frequency Mechanical operation	ma drop-out mi ma umption at 20°C of 60Hz coil powered at 60Hz in-rus holdin ≤20°C 50Hz	x %Us n %Us <u>x %Us</u> n VA g VA W	110 20 55 75 9 2.5
Dissipation at holding Max cycles frequency Mechanical operation Operating times	ma drop-out mi ma umption at 20°C of 60Hz coil powered at 60Hz in-rus holdin ≤20°C 50Hz	x %Us n %Us <u>x %Us</u> n VA g VA W	110 20 55 75 9 2.5
Dissipation at holding Max cycles frequency Mechanical operation Operating times	ma drop-out mi ma umption at 20°C of 60Hz coil powered at 60Hz in-rus holdin ≤20°C 50Hz	x %Us n %Us <u>x %Us</u> n VA g VA W	110 20 55 75 9 2.5 3600
Dissipation at holding Max cycles frequency Mechanical operation Operating times	ma drop-out mi ma umption at 20°C of 60Hz coil powered at 60Hz in-rus holdin ≤20°C 50Hz	x %Us n %Us x %Us n VA g VA W cycles/h	110 20 55 75 9 2.5 3600 8
Dissipation at holding Max cycles frequency Mechanical operation Operating times	drop-out mi umption at 20°C of 60Hz coil powered at 60Hz ≤20°C 50Hz sontrol in AC Closing NO mi ma	x %Us n %Us <u>x %Us</u> n VA g VA W cycles/h	110 20 55 75 9 2.5 3600
Dissipation at holding Max cycles frequency Mechanical operation Operating times	drop-out mi ma umption at 20°C of 60Hz coil powered at 60Hz ≤20°C 50Hz sontrol in AC Closing NO mi ma Opening NO	x %Us n %Us <u>x %Us</u> n VA <u>g VA</u> W cycles/h	110 20 55 75 9 2.5 3600 8 24
Dissipation at holding Max cycles frequency Mechanical operation Operating times	drop-out mi umption at 20°C of 60Hz coil powered at 60Hz ≤20°C 50Hz sontrol in AC Closing NO mi ma	x %Us n %Us <u>x %Us</u> n VA <u>g VA</u> W cycles/h	110 20 55 75 9 2.5 3600 8

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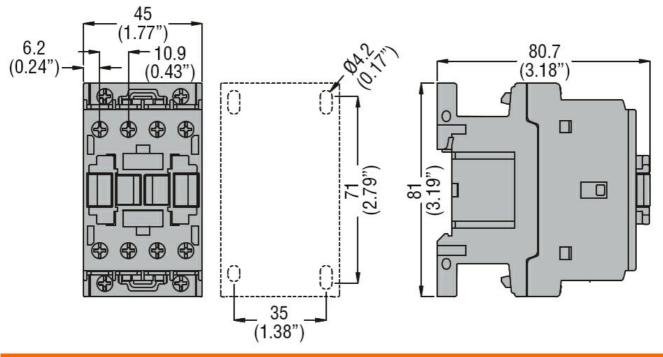


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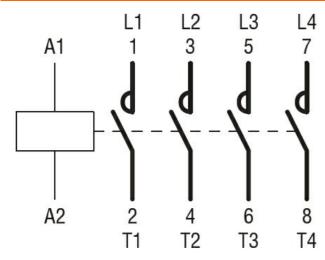
	Closing NC			
		min	ms	14
		max	ms	28
	Opening NC	max	mo	20
	Opening ive	min	ms	7
		max	ms	18
UL technical data		max	mo	10
	A) for three-phase AC motor			
		at 480V	А	7.6
		at 600V	A	0.375
Yielded mechanical p	performance	ai 000 v	Λ	0.070
neideu mechanicai p	for single-phase AC motor			
	for single-phase AC motor	110/120V	HP	0.75
		230V	HP	2
	for three phase AC motor	2000		۷
	for three-phase AC motor	200/208V	HP	2
				3
		220/230V	HP	3 5
		460/480V	HP	
0		575/600V	HP	7.5
General USE				
	Contactor	10		<u></u>
<u></u>	(AC current	A	25
Short-circuit protection				
	High fault			
		Short circuit current	kA	100
		Fuse rating	A	30
		Fuse class		J
	Standard fault			
		Short circuit current	kA	5
		Fuse rating	А	60
Ambient conditions				
Temperature				
	Operating temperature			
		min	°C	-50
		max	°C	70
	Storage temperature			
		min	°C	-60
		max	°C	80
Max altitude			m	3000
Resistance & Protect	tion			
Pollution degree				3
Dimensions				



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