



Product designation			Power contactor
Product type designation			BF09
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		A	25
Operational current le			
	AC-1 (≤40°C)	A	25
	AC-1 (≤55°C)	A	20
	AC-1 (≤70°C)	A	18
	AC-3 (≤440V ≤55°C)	A	9
	AC-4 (400V)	A	4.9
Rated operational power AC-1 (T≤40°C)	0001/		0.5
	230V	kW	9.5
	400V	kW	16
	500V	kW	21
ICC may surrent le in DC1 with $L/D < 1$ may with 1 pales in series	690V	kW	27
IEC max current le in DC1 with $L/R \le 1$ ms with 1 poles in series	≤24V	А	15
	≤24V 48V	A	13
	46V 75V	A	12
	110V	A	6
	220V	A	- -
IEC max current le in DC1 with $L/R \le 1$ ms with 2 poles in series	220 V	~	
	≤24V	А	18
	48V	A	18
	75V	A	17
	110V	A	12
	220V	A	1
IEC max current le in DC1 with $L/R \le 1$ ms with 3 poles in series			
	≤24V	А	20
	48V	А	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

BF09T4A400



IFC may autrent to in DC2 DC5 with L/R < 15mg with 1 polog in agrice			
IEC max current le in DC3-DC5 with L/R $\leq$ 15ms with 1 poles in series	≤24V	А	10
	48V	A	9
	40V 75V	A	8
	110V	A	2
	220V	A	2 —
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series			
	≤24V	А	13
	48V	A	11
	75V	A	10
	110V	A	7
	220V	A	2
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series			
	≤24V	А	15
	48V	A	15
	75V	A	13
	110V	A	11
	220V	A	6
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series	2201	Λ	0
	≤24V	А	15
	48V	A	15
	75V	A	15
	110V	A	12
	220V	A	7
Short-time allowable current for 10s (IEC/EN60947-1)		A	150
Protection fuse			
	gG (IEC)	А	25
	aM (IEC)	А	10
Making capacity (RMS value)		А	90
Breaking capacity at voltage			
	440V	А	72
	500V	А	72
	690V	А	71
Resistance per pole (average value)		mΩ	2.5
Power dissipation per pole (average value)			
	lth	W	1.6
	AC-3	W	0.2
Tightening torque for terminals			
	min	Nm	1.5
	max	Nm	1.8
	min	lbin	1.1
	max	lbin	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

BF09T4A400

**BF09T4A400** 



FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 25A, AC COIL 50/60HZ, 400VAC

				<u>^</u>
	Flexible c/w lug conductor section	max	mm²	6
	Flexible C/w lug conductor section	min	mm²	1
		max	mm²	4
	Flexible with insulated spade lug conductor s			7
	r lexible with insulated space by conductor s	min	mm²	1
		max	mm²	4
		Пах		IP20 when
Power terminal protect	tion according to IEC/EN 60529			properly wired
Mechanical features				
Operating position				
		normal		Vertical plan
		allowable		±30°
				Screw / DIN rail
Fixing				35mm
Weight			g	368
Conductor section				
	AWG/kcmil conductor section			
		max		10
Operations				
Mechanical life			cycles	2000000
Electrical life			cycles	2000000
Safety related data				
Performance level B1	0d according to EN/ISO 13489-1			
		rated load	cycles	2000000
		mechanical load	cycles	2000000
	ng to IEC/EN 609474-4-1			yes
EMC compatibility				yes
AC coil operating				
Rated AC voltage at 5	0/60Hz		V	400
AC operating voltage				
	of 50/60Hz coil powered at 50Hz			
	pick-up			
		min	%Us	80
		max	%Us	110
	drop-out		0/11-	20
		min	%Us %Us	20
	of 50/60Hz coil powered at 60Hz	max	70US	55
	of 50/60Hz coil powered at 60Hz pick-up			
	ρισκ-αρ	min	%Us	85
		max	%Us %Us	110
	drop-out	IIIdX	/003	110
		min	%Us	20
		max	%Us	55
AC average coil consu	Imption at 20°C			
	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	<u> </u>		
	·	in-rush	VA	75

BF09T4A400

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



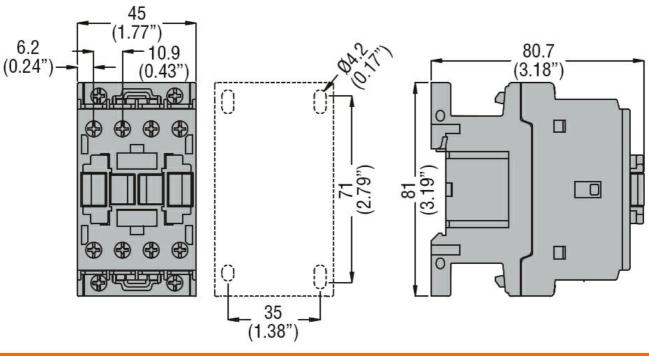
**BF09T4A400** FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 25A, AC COIL 50/60HZ, 400VAC

		holding	VA	9
Dissipation at holding ≤	20°C 50Hz		W	2.5
Max cycles frequency				
Mechanical operation			cycles/h	3600
Operating times				
Average time for Us co	ntrol			
	in AC			
	Closing NO			
		min	ms	8
		max	ms	24
	Opening NO			
		min	ms	10
		max	ms	20
	Closing NC			
		min	ms	14
		max	ms	28
	Opening NC		<b>m</b> c	7
		min	ms	7 18
UL technical data		max	ms	10
	for three-phase AC motor			
	Tor three-phase AC III0101	at 480V	А	7.6
		at 600V	A	0.375
Yielded mechanical pe	rformance	at 000 v	Λ	0.373
neideu mechanicai pe	for single-phase AC motor			
	Ior single-phase Ao motor	110/120V	HP	0.75
		230V	HP	2
	for three-phase AC motor	2007		2
		200/208V	HP	3
		220/230V	HP	3
		460/480V	HP	5
		575/600V	HP	7.5
General USE				
	Contactor			
		AC current	А	25
Short-circuit protection	fuse, 600V			
•	High fault			
	-	Short circuit current	kA	100
		Fuse rating	А	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 & Protectio				2
Pollution degree				3

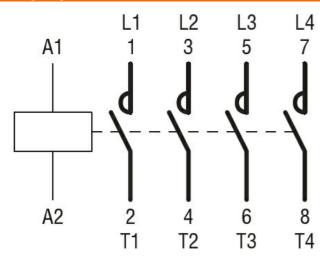
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Dimensions



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 60947-1 UL 60947-4-1 Certificates CCC cULus	
IEC/EN/BS 60947-1   IEC/EN/BS 60947-4-1   UL 60947-1   UL 60947-4-1   Certificates   CCC   cULus	
IEC/EN/BS 60947-4-1   UL 60947-1   UL 60947-4-1   Certificates   CCC   cULus	
UL 60947-1   UL 60947-4-1   Certificates   CCC   cULus	
UL 60947-4-1 Certificates CCC cULus	
Certificates CCC cULus	
CCC cULus	
cULus	
EAC	
ETIM classification	
	EC000066 -
ETIM 8.0	Power contactor,
	AC switching