



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		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			
	≤24V	А	15
	48V	А	13
	75V	А	12
	110V	А	6
	220V	A	-
IEC max current le in DC1 with $L/R \le 1$ ms with 2 poles in series			
	≤24V	A	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	A	20
	48V	A	20
	75V	A	20
	110V	A	15
	220V	A	10
IEC max current le in DC1 with $L/R \le 1$ ms with 4 poles in series	_ · · ·	-	
	≤24V	A	20
	48V	A	20
	75V	A	20
	110V	A	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	Α	2
	220V	А	_
IEC max current le in DC3-DC5 with L/R \leq 15ms 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 \leq 15ms with 3 poles in series			_
	≤24V	А	15
	48V	A	15
	48V 75V	A	13
	110V		11
		A	
	220V	A	6
IEC max current le in DC3-DC5 with $L/R \le 15$ ms with 4 poles in series			
	≤24V	Α	15
	48V	A	15
	75V	A	15
	110V	A	12
	220V	Α	7
Short-time allowable current for 10s (IEC/EN60947-1)		Α	150
Protection fuse			
	gG (IEC)	Α	25
	aM (IEC)	Α	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)			2.0
	lth	W	1.6
	AC-3	W	0.2
Tightoning torque for terminale	AC-3	VV	0.2
Tightening torque for terminals		N I.a.	4 5
	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	max		· -
	min	mm²	1
	11111		

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FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 25A, AC COIL 60HZ, 575VAC

		max	mm²	6
	Flexible c/w lug conductor section			
		min	mm²	1
		max	mm²	4
	Flexible with insulated spade lug conducto	r section		
		min	mm²	1
		max	mm²	4
Dower terminal protec	tion appording to IEC/EN 60520			IP20 when
	tion according to IEC/EN 60529			properly wired
Mechanical features				
Operating position				
		normal		Vertical plan
		allowable		±30°
				Screw / DIN rail
Fixing				35mm
Weight			g	360
Conductor section				
	AWG/kcmil conductor section			
		max		10
Operations				
Mechanical life			cycles	20000000
Electrical life			cycles	2000000
Safety related data			.,	
	0d according to EN/ISO 13489-1			
		rated load	cycles	2000000
		mechanical load	cycles	20000000
Mirror contats accordi	ng to IEC/EN 609474-4-1	meenamearioarioaa	0,0100	yes
EMC compatibility				yes
AC coil operating				yes
Rated AC voltage at 6	0Hz		V	575
AC operating voltage			v	515
AC operating voltage	of 60Hz coil powered at 60Hz			
	•			
	pick-up	min	%Us	80
		min		
	drop out	max	%Us	110
	drop-out		0/11-	20
		min	%Us	20
	imption at 20°C	max	%Us	55
AC average coil consu	•			
	of 60Hz coil powered at 60Hz		1/4	75
		in-rush	VA	75
Disaination of the L	<00°0 501-	holding	VA	9
Dissipation at holding	≤20°C 50HZ		W	2.5
Max cycles frequency				2000
Mechanical operation			cycles/h	3600
Operating times				
Average time for Us c				
	in AC			
	Closing NO			
		min	ms	8
		max	ms	24
	Opening NO			
		min	ms	10
		max	ms	20

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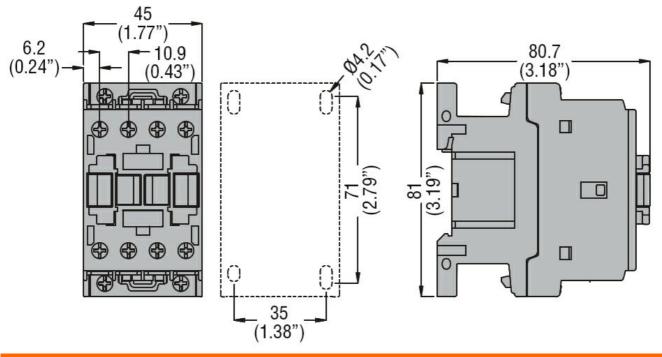


FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 25A, AC COIL 60HZ, 575VAC

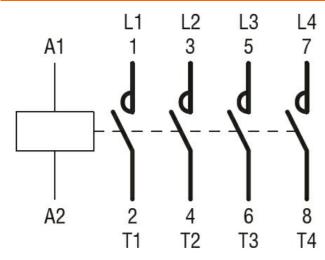
	Closing NC			
		min	ms	14
		max	ms	28
	Opening NC	max	mo	20
	opening No	min	ms	7
		max	ms	, 18
UL technical data		max	mo	10
) for three-phase AC motor			
		at 480V	А	7.6
		at 600V	A	0.375
Vielded mechanical p	rformonoo	at 000 v	A	0.375
Yielded mechanical pe				
	for single-phase AC motor	440/4001/		0.75
		110/120V	HP	0.75
		230V	HP	2
	for three-phase AC motor	000/000)/		0
		200/208V	HP	3
		220/230V	HP	3
		460/480V	HP	5
		575/600V	HP	7.5
General USE				
	Contactor			
		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	Α	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 & Protecti	on			
Pollution degree				3
Dimensions				



BF09T4A57560 FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 25A, AC COIL 60HZ, 575VAC



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