



Product designation Product type designation			Power contactor BF09
Contact characteristics			DF09
Number of poles		Nr.	4
Rated insulation voltage Ui IEC/EN		V	690
Rated impulse withstand voltage Uimp		kV	6
Operational frequency		IX V	0
operational frequency	min	Hz	25
	max	Hz	400
IEC Conventional free air thermal current Ith	Пах	A	25
Operational current le			20
	AC-1 (≤40°C)	А	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)			
	230V	kW	9.5
	400V	kW	16
	500V	kW	21
	690V	kW	27
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)		Α	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	Ibin	1.1
	max	Ibin	1.5
Tightening torque for coil terminal			
	min	Nm	0.8
	max	Nm	1
	min	Ibin	0.8
	max	Ibin	0.74



48VAC, 2NO AND 2NC

Conductor section

Conductor Section	AWG/Kcmil			
	AWG/Remii	max		10
	Flexible w/o lug conducto			10
	5	min	mm²	1
		max	mm²	6
	Flexible c/w lug conducto			
		min	mm²	1
	Flovible with inculated on	max	mm²	4
	Flexible with insulated sp	ade lug conductor section min	mm²	1
		max	•	4
	tion coording to IEC/ENC			IP20 when
Power terminal protec	ction according to IEC/EN 6	0529		properly wired
Mechanical features				
Operating position				
		normal		Vertical plan
		allowable		±30°
Fixing				Screw / DIN rail 35mm
Weight			g	360
Conductor section			9	
	AWG/kcmil conductor se	ction		
		max		10
Operations				
Mechanical life			cycles	2000000
Electrical life			cycles	2000000
Safety related data				
Performance level B1	0d according to EN/ISO 13			
		rated load	2	2000000
Mirror contate accord	ing to IEC/EN 609474-4-1	mechanical load	cycles	20000000 YES
EMC compatibility	ing to IEC/EN 009474-4-1			
AC coil operating				yes
Rated AC voltage at 6	60Hz		V	48
AC operating voltage			•	10
5 - 1 - 5 5 5 5 5 5 5 5 5 5 5 5 5	of 60Hz coil powered at 6	60Hz		
	•	bick-up		
		min	%Us	80
		max	%Us	110
	С	drop-out		
		min		20
		max	%Us	55
AC average coil cons	•	2011-		
	of 60Hz coil powered at 6		١/٨	75
		in-rush holding	VA VA	75 9
Dissipation at holding	≤20°C 50Hz	noiding	W	2.5
Max cycles frequency			v v	2.0
Mechanical operation			cycles/h	3600
Operating times			,	
Average time for Us of	control			
	in AC			

BF09T2A04860



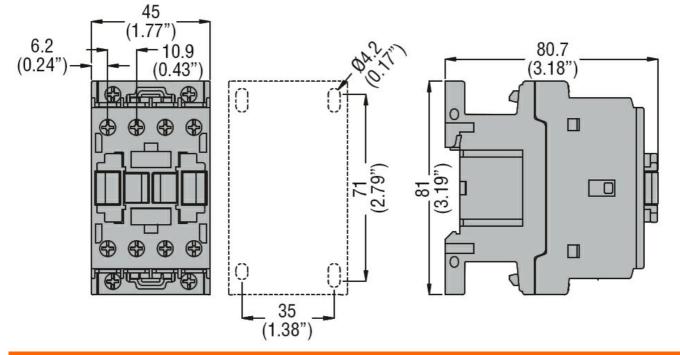
FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 25A, AC COIL 60HZ, 48VAC, 2NO AND 2NC

	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			
		min	ms	7
		max	ms	18
UL technical data				
	LA) for three-phase AC motor			
X		at 480V	А	7.6
		at 600V	А	9
Yielded mechanica	I performance			
	for single-phase AC motor			
		110/120V	HP	0.8
		230V	HP	2
	for three-phase AC motor			
	·	200/208V	HP	3
		220/230V	HP	3
		460/480V	HP	5
		575/600V	HP	7.5
General USE				
	Contactor			
		AC current	А	25
Ambient conditions				
Temperature				
	Operating temperature			
		min	°C	-50
		max	°C	70
	Storage temperature			
		min	°C	-60
		max	°Č	80
Max altitude			m	3000
Resistance & Prote	ection			
Pollution degree				3
Dimensions				

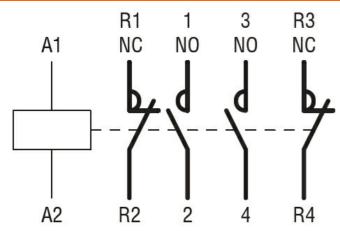
Dimensions



BF09T2A04860 FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 25A, AC COIL 60HZ, 48VAC, 2NO AND 2NC



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