



Product designation Product type designation			Power contactor 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		Α	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)	A	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	A	15
	48V	A	13
	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			
	≤24V	A	18
	48V	A	18
	75V	A	17
	110V 220V	A	12
ICC many summer to in $DC1$ with $1/D < 1$ may with 2 males in series	2201	A	1
IEC max current le in DC1 with $L/R \le 1$ ms with 3 poles in series	<0.01/	٨	20
	≤24V	A	20
	48V 75V	A	20 20
	110V	A A	15
	220V		10
IEC max current le in DC1 with $L/R \le 1$ ms with 4 poles in series	220 V	A	10
$1 \ge 0$ max current le in DOT with $L/T \ge 1$ mis with 4 poles in series	≤24V	۸	20
	≤24∨ 48V	A A	20 20
	48V 75V	A	20
	110V	A	16
	220V	A	12
	2200	А	12

BF09T4A024



IEC max current le in DC3-DC5 with $L/R \le 15$ ms with 1 poles in series			
	≤24V	A	10
	48V	А	9
	75V	А	8
	110V	А	2
	220V	A	-
IEC max current le in DC3-DC5 with $L/R \le 15$ ms with 2 poles in series			
	≤24V	А	13
	48V	Α	11
	75V	Α	10
	110V	А	7
	220V	А	2
IEC max current le in DC3-DC5 with $L/R \le 15$ ms with 3 poles in series			
	≤24V	А	15
	48V	Α	15
	75V	А	13
	110V	А	11
	220V	А	6
IEC max current le in DC3-DC5 with $L/R \le 15$ ms with 4 poles in series			
	≤24V	А	15
	48V	А	15
	75V	А	15
	110V	A	12
	220V	A	7
Short-time allowable current for 10s (IEC/EN60947-1)	2201	A	150
Protection fuse		,,	100
	gG (IEC)	А	25
	aM (IEC)	A	10
Making capacity (RMS value)		A	90
Breaking capacity at voltage		Λ	50
Dicaking capacity at voltage	440V	А	72
	500V	A	72
	690V	A	72
Posistance per polo (averago valuo)	090 V	 mΩ	2.5
Resistance per pole (average value) Power dissipation per pole (average value)		11152	2.0
Power dissipation per pole (average value)	146	14/	1.0
	lth	W	1.6
Ticktonia stanua fastancia da	AC-3	W	0.2
Tightening torque for terminals		Nim	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			
-	min	mm²	1

BF09T4A024

BF09T4A024



FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 25A, AC COIL 50/60HZ, 24VAC

		max	mm²	6
	Flexible c/w lug conductor section	Пах		0
		min	mm²	1
		max	mm²	4
	Flexible with insulated spade lug conductor se	ection		
		min	mm²	1
		max	mm²	4
Power terminal protect	tion according to IEC/EN 60529			IP20 when
				properly wired
Mechanical features				
Operating position				Marchallan
		normal allowable		Vertical plan ±30°
		allowable		Screw / DIN rail
Fixing				35mm
Weight			g	362
Conductor section			3	
	AWG/kcmil conductor section			
		max		10
Operations				
Mechanical life			cycles	20000000
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	24
AC operating voltage				
	of 50/60Hz coil powered at 50Hz			
	pick-up	min	%Us	80
		max	%Us %Us	110
	drop-out	IIIdA	/005	110
	uop-out	min	%Us	20
		max	%Us	55
	of 50/60Hz coil powered at 60Hz	max		
	pick-up			
		min	%Us	85
		max	%Us	110
	drop-out			
		min	%Us	20
		max	%Us	55
AC average coil consu				
	of 50/60Hz coil powered at 50Hz			
		in-rush	VA	75
		holding	VA	9
	of 50/60Hz coil powered at 60Hz	ام ما	١/٨	70
		in-rush	VA VA	70 6.5
	of 60Hz coil powered at 60Hz	holding	VA	0.0
		in-rush	VA	75
		11-1051	٧٨	10

BF09T4A024



BF09T4A024 FOUR-POLE

E CONTACTOR, IEC OPERATING CURRENT ITH (AC	1) = 25A, AC COIL 50/60HZ,	
	24VAC	

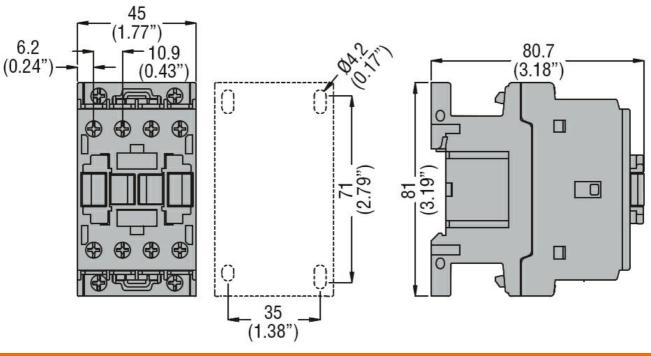
	holding	VA	9
Dissipation at holding ≤20°C 50Hz		W	2.5
Max cycles frequency			
Mechanical operation		cycles/h	3600
Operating times			
Average time for Us control			
in AC			
Closing NO			0
	min max	ms ms	8 24
Opening NO	max	1115	24
Opening NO	min	ms	10
	max	ms	20
Closing NC	ind,	me	20
	min	ms	14
	max	ms	28
Opening NC			
	min	ms	7
	max	ms	18
UL technical data			
Full-load current (FLA) for three-phase AC motor			
	at 480V	А	7.6
	at 600V	A	0.375
Yielded mechanical performance			
for single-phase AC motor			
	110/120V	HP	0.75
	230V	HP	2
for three-phase AC motor	000/000)/		0
	200/208V	HP	3
	220/230V 460/480V	HP HP	3 5
	400/480V 575/600V	HP	7.5
General USE	575/0007	111	1.5
Contactor			
Contactor	AC current	А	25
Short-circuit protection fuse, 600V			
High fault			
0	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
0	max	°C	70
Storage temperature	•	•••	<u>60</u>
	min	°C °C	-60
Max altitude	max	°C	80
		m	3000
Posistance & Protection			
Resistance & Protection Pollution degree			3

BF09T4A024

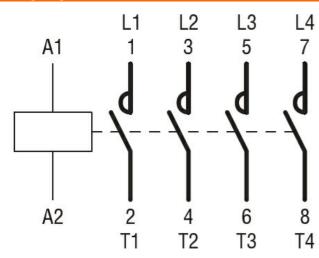
The characteristics described in this document are subject to updates or modifications at any time. The descriptions, technical and functional information, illustrations and instructions in this brochure are purely illustrative, and are consequently not contractually binding



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 60947-4-1	
Certificates		
	CCC	
	cULus	
	EAC	
ETIM classification		
		EC000066 -
ETIM 8.0		Power contactor,
		AC switching