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Product designation			Power contactor
Product type designation			BF09
Contact characteristics			
Number of poles		nr.	3
Rated insulation voltage Ui IEC/EN		V	690
Rated impulse withstand voltage Uimp		kV	6
Operational frequency			
	min	Hz	25
	max	Hz	400
Conventional free air thermal current Ith IEC/EN		A	25
Operational current le			
	AC-1 (≤40°C)	А	25
	AC-3 (≤440V ≤55°C)	А	9
	AC-4 (400V)	A	4.9
Rated operational power AC-3 (T≤55°C)			
	230V	kW	2.2
	400V	kW	4.2
	415V	kW	4.5
	440V	kW	4.8
	500V	kW	5.5
	690V	kW	7.5
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		۸	05
	gG (IEC)	A	25 10
Making capacity (RMS value)	aM (IEC)	A	90
Breaking capacity (KNS Value)		A	90
breaking capacity at voltage	440V	А	72
	440V 500V	A	72
	690V	A	71
Resistance per pole (average value)	0301	mΩ	2.5
Power dissipation per pole (average value)		11152	2.0
i oner assipation per pole (average value)	Ith	W	1.6
	AC3	W	0.2
Tightening torque for terminals	703	vv	0.2
	min	Nm	1.5
	max	Nm	1.8
	min	Ibin	1.1
	max	Ibin	1.5
	max	10111	

## Tightening torque for coil terminal

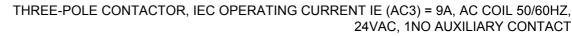


**BF0910A024** THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 9A, AC COIL 50/60HZ, 24VAC, 1NO AUXILIARY CONTACT

		min	Nm	0.8
		max	Nm	1
		min	lbft	0.8
		max	lbft	0.74
Max number of wires simultaneously c	onnectable		nr.	2
Conductor section				
Flexible w/o lu	ig conductor section			
		min	mm²	1
		max	mm²	6
Flexible c/w lu	ig conductor section			
		min	mm²	1
		max	mm²	4
Flexible with in	nsulated spade lug conductor section			
		min	mm²	1
		max	mm²	4
Power terminal protection according to	DIEC/EN 60529			IP20 when wire
Mechanical features				
Operating position				
		normal		Vertical plan
		allowable		±30°
Fixing				Screw / DIN rail
				35mm
Weight			g	362
Auxiliary contact characteristics				4.110
Type of contact				1 NO
Thermal current Ith			A	10
IEC/EN 60947-5-1 designation				A600 - P600
Operating current AC15				
		230V	A	3
		400V	А	1.9
		500V	Α	1.4
Operating current DC12				
		110V	А	5.7
Operating current DC13				
		24V	А	5.7
		48V	А	2.9
		60V	А	2.3
		110V	А	1.25
		125V	А	1.1
		220V	А	0.55
		600V	А	0.2
Operations				
Mechanical life			cycles	20000000
Electrical life			cycles	2000000
Safety related data			,	
Performance level B10d according to	EN/ISO 13489-1			
		rated load	cycles	2000000
	meci	nanical load	cycles	20000000
Mirror contats according to IEC/EN 60			0,000	yes
EMC compatibility				yes
AC coil operating				yuu
Rated AC voltage at 50/60Hz, 60Hz				
		min	V	12
		[[]]]	v	12

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			max	V	600
AC operating voltage				_	
	of 50/60Hz coil power				
		pick-up		0/11-	110
		drop out	max	%Us	110
		drop-out	min	%Us	20
			max	%Us	55
	of 50/60Hz coil power	ed at 60Hz	Пах	/000	00
	0. 00/00. <u>–</u> 00. po. o.	pick-up			
			min	%Us	85
			max	%Us	110
		drop-out			
			min	%Us	20
			max	%Us	55
AC operating voltage a					
	of 50/60Hz coil power	red at 50Hz	· · · · ·	\ /A	75
			in-rush	VA VA	75 9
	of E0/60Hz ooil power		holding	VA	9
	of 50/60Hz coil power		in-rush	VA	70
			holding	VA VA	6.5
	of 60Hz coil powered	at 60Hz	noranig		0.0
			in-rush	VA	75
			holding	VA	9
Dissipation at holding	≤20°C 50Hz			W	2.5
DC coil operating					
DC rated control voltage	ge				
			max	V	250
			max		
Mechanical operations			max	V cycles/h	
Mechanical operations Operating times			max		
Mechanical operations Operating times	ontrol		max		
Mechanical operations Operating times			max		
Mechanical operations Operating times	ontrol	Closing NO		cycles/h	3600
Mechanical operations Operating times	ontrol	Closing NO	min	cycles/h ms	3600 8
Mechanical operations Operating times	ontrol	-		cycles/h	3600
Mechanical operations Operating times	ontrol	Closing NO Opening NO	min	cycles/h ms	3600 8
Mechanical operations Operating times	ontrol	-	min max	cycles/h ms ms	3600 8 24
Mechanical operations Operating times	ontrol	-	min max min	cycles/h ms ms ms	3600 8 24 10
Mechanical operations Operating times	ontrol	Opening NO	min max min	cycles/h ms ms ms	3600 8 24 10 20 14
Mechanical operations Operating times	ontrol	Opening NO Closing NC	min max min max	cycles/h ms ms ms ms	3600 8 24 10 20
Mechanical operations Operating times	ontrol	Opening NO	min max min max min max	cycles/h ms ms ms ms ms ms	3600 8 24 10 20 14 28
Mechanical operations Operating times	ontrol	Opening NO Closing NC	min max min max min max min	cycles/h ms ms ms ms ms ms ms	3600 8 24 10 20 14 28 7
Mechanical operations Operating times Average time for Us co	ontrol	Opening NO Closing NC	min max min max min max	cycles/h ms ms ms ms ms ms	3600 8 24 10 20 14 28
Mechanical operations Operating times Average time for Us co UL technical data	ontrol in AC	Opening NO Closing NC Opening NC	min max min max min max min	cycles/h ms ms ms ms ms ms ms	3600 8 24 10 20 14 28 7
Mechanical operations Operating times Average time for Us co	ontrol	Opening NO Closing NC Opening NC	min max min max min max min max	cycles/h ms ms ms ms ms ms ms ms	3600 8 24 10 20 14 28 7 18
Mechanical operations Operating times Average time for Us co	ontrol in AC	Opening NO Closing NC Opening NC	min max min max min max min max at 480V	cycles/h ms ms ms ms ms ms ms ms	3600 8 24 10 20 14 28 7 18 7.6
Mechanical operations Operating times Average time for Us co UL technical data Full-load current (FLA)	ontrol in AC	Opening NO Closing NC Opening NC	min max min max min max min max	cycles/h ms ms ms ms ms ms ms ms	3600 8 24 10 20 14 28 7 18
Mechanical operations Operating times Average time for Us co UL technical data Full-load current (FLA)	ontrol in AC	Opening NO Closing NC Opening NC	min max min max min max min max at 480V	cycles/h ms ms ms ms ms ms ms ms	3600 8 24 10 20 14 28 7 18 7.6
Max cycles frequency Mechanical operations Operating times Average time for Us co UL technical data Full-load current (FLA) Yielded mechanical pe	ontrol in AC	Opening NO Closing NC Opening NC	min max min max min max min max at 480V at 600V	cycles/h ms ms ms ms ms ms ms as as	3600 8 24 10 20 14 28 7 18 7.6 0.375
Mechanical operations Operating times Average time for Us co UL technical data Full-load current (FLA)	ontrol in AC	Opening NO Closing NC Opening NC	min max min max min max min max at 480V	cycles/h ms ms ms ms ms ms ms ms	3600 8 24 10 20 14 28 7 18 7.6

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for three-phase AC motor		
200/208	V hp	3
220/230		3
460/480	V hp	5
575/600		7.5
Contact rating of auxiliary contacts according to UL		A600 - P600
General USE		
Contactor		
AC curre	nt A	25
Auxiliary contacts		
AC voltag	je V	600
AC curre		10
DC voltag	je V	250
DC curre		1
mbient conditions		
emperature		
Operating temperature		
m	in °C	-50
ma	ax °C	70
Storage temperature		
m	in °C	-60
ma	ax °C	80
/lax altitude	m	3000
Resistance & Protection		
Pollution degree		3
Dimensions		
15		
(1.77")	00 <del>7</del>	
6.2 - 10.9	80.7	
(0.24") - (0.43")	(3.18")	
	5 0	
		昭

7.9 (0.31") (14.6)

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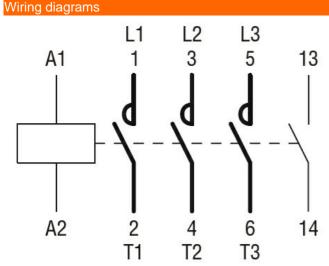
(0.57")

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



ENERGY AND AUTOMATION

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## Certifications and compliance

Compliance	
	CSA C22.2 n° 60947-1
	CSA C22.2 n° 60947-4-1
	IEC/EN 60947-1
	IEC/EN 60947-4-1
	UL 60947-1
	UL 60947-4-1
Certificates	
	CCC
	cULus
	EAC
FTIM 6 classification	

ETIM 6 classification

EC000066 - Power contactor, AC switching