



Product designation Product type designation			Power contactor BF09
Contact characteristics			
Number of poles		nr.	3
Rated insulation voltage Ui		V	690
Rated impulse withstand voltage Uimp		kV	6
Operating frequency			
	Operational frequency min	Hz	25
	Operational frequency max	Hz	400
Conventional free air thermal current Ith		А	25
Operating current			
	Operational current AC1 (≤40°C)	А	25
	Operational current AC3 (≤440V ≤55°C)	А	9
	Operational current AC4 (400V)	Α	4.9
Rated operational power AC1 (T≤40°C)			
	230V	kW	9.5
	400V	kW	16
	500V	kW	21
	690V	kW	27
Rated operational power AC3 (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
Short-time allowable current for 10s (IEC/EN6	0947-1)	A	150
Protection fuse			
	gG (IEC)	A	25
	aM (IEC)	A	10
Making capacity (RMS value)		A	90
Breaking capacity at voltage			
	Breaking capacity 440V	А	72
	Breaking capacity 500V	A	72
	Breaking capacity 690V	A	71
Resistance per pole (average value)		mΩ	2.5
Power dissipation per pole (average value)			
	Power dissipation pole (average value) Ith	W	1.6
	AC3	W	0.2
Tightening torque for terminals			
	min	Nm	1.5
	max	Nm	1.8
	min	lbft	1.1
	max	lbft	1.5

# Tightening torque for coil terminal



## **BF0901L024** THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 9A, DC COIL LOW CONSUMPTION, 24VDC, 1NC AUXILIARY CONTACT

		min	Nm	0.8
		max	Nm	1
		min	lbft	0.8
		max	lbft	0.74
nax number of wires	simultaneously connectable		nr.	2
Conductor section				
	AWG			
		min		16
		max		10
	Flexible w/o lug conductor section			
	-	min	mm²	1
		max	mm²	6
	Flexible c/w lug conductor section			
	U U	min	mm²	1
		max	mm²	4
	Flexible with insulated spade lug conductor section			
	· · · · · · · · · · · · · · · · · · ·	min	mm²	1
		max	mm²	4
Power terminal prote	ction according to IEC/EN 60529			IP20 when wire
Auxiliary contact char				
Type of contact				1 NC
Thermal current Ith			А	10
IEC/EN 60947-5-1 de	esignation			A600 - P600
Operational current A	-		Α	25
Operating current AC				25
Operating current AC		230V	٨	3
			A	
		400V	A	1.9
0		500V	A	1.4
Operating current DC	512	4401/	•	
	240	110V	A	5.7
Operating current DC	;13			
		24V	А	5.7
		48V	А	2.9
		60V	А	2.3
		110V	А	Screw / DIN ra
		1100	~	35mm
		125V	А	0.6
		220V	А	0.2
		600V	А	1.2
Ambient conditions				
Temperature				
	Operating temperature			
		min	°C	-50
		max	°C	70
	Storage temperature	шал		
	olorage lemperalure	min	°C	-60
			°C	-60 80
Max altitude		max		3000
			m	3000
Operating position		normal.		Vartical plan
		normal		Vertical plan
		allowable		±30°
				Screw / DIN ra
Mounting				35mm
Mounting Weight				0.502

**BF0901L024** 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



BF0901L024 THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 9A, DC COIL LOW CONSUMPTION, 24VDC, 1NC AUXILIARY CONTACT

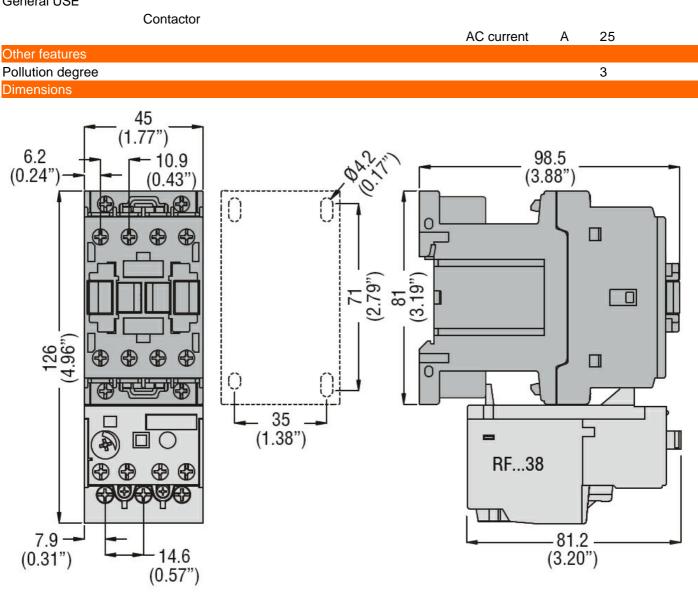
Operations Mechanical life		Cuoloo	20000000
		Cycles	20000000
Electrical life		Cycles	2000000
Safety related data			
Performance level B10d according to EN/ISO 13489-1	ار م ما او معمد	0:-1:	000000
	rated load	Cicli	2000000
	mechanical load	Cicli	20000000
Mirror contats according to IEC/EN 609474-4-1			yes
EMC compatibility			yes
DC coil operating			
DC rated control voltage			_
	min	V	6
	max	V	415
DC operating voltage			
pick-up			
	min	%Us	0.8
	max	%Us	1.10
drop-out			
	min	%Us	0.1
	max	%Us	0.40
Average coil consuption ≤20°C			
	in-rush	W	2.4
	holding	W	2.4
Max cycles frequency			
Mechanical operations		Cycles/h	3600
Operating times			
Average time for Us control			
in DC			
Closing NO			
	min	ms	75
	max	ms	91
Opening NO			
	min	ms	15
	max	ms	19
Closing NC			
	min	ms	24
	max	ms	30
Opening NC			
-	min	ms	67
	max	ms	81
UL technical data			
			7.6
	at 480V	A	
	at 480V at 600V	A A	0.375
Full-load current (FLA) for three-phase AC motor			
Full-load current (FLA) for three-phase AC motor Yielded mechanical performance			
Full-load current (FLA) for three-phase AC motor		A	
Full-load current (FLA) for three-phase AC motor Yielded mechanical performance	at 600V at 110/120V	A	0.375
Full-load current (FLA) for three-phase AC motor Yielded mechanical performance for single-phase AC motor	at 600V	A	0.375
Full-load current (FLA) for three-phase AC motor Yielded mechanical performance	at 600V at 110/120V at 230V	A hp hp	0.375 0.75 2
Full-load current (FLA) for three-phase AC motor Yielded mechanical performance for single-phase AC motor	at 600V at 110/120V at 230V at 200/208V	A hp hp hp	0.375 0.75 2 3
Full-load current (FLA) for three-phase AC motor Yielded mechanical performance for single-phase AC motor	at 600V at 110/120V at 230V at 200/208V at 220/230V	A hp hp hp hp	0.375 0.75 2 3 3
	at 600V at 110/120V at 230V at 200/208V	A hp hp hp	0.375 0.75 2 3

BF0901L024

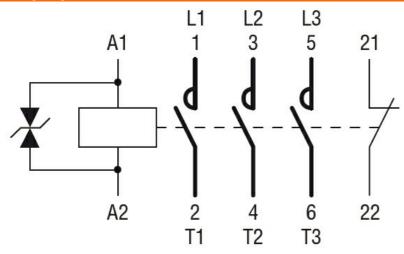
The characteristics described in this document are subject to updates or modifications at any time. The descriptions, technical and functional information, illustrations and instructions in this brochure are purely illustrative, and are consequently not contractually binding



#### **General USE**



Wiring diagrams



### Certifications and compliance Certifications

CSA C22.2 n° 60947-1

BF0901L024



## **BF0901L024** THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 9A, DC COIL LOW CONSUMPTION, 24VDC, 1NC AUXILIARY CONTACT

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

EC000066 - Power contactor, AC switching

BF0901L024