



Product designation Power contactor Product type designation **BF12** Contact characteristics 3 Number of poles nr. 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 28 А Operating current Operational current AC1 (≤40°C) А 28 Operational current AC3 (≤440V ≤55°C) А 12 Operational current AC4 (400V) А 7.9 Rated operational power AC1 (T≤40°C) 230V kW 10 400V kW 18 500V kW 23 690V kW 32 Rated operational power AC3 (T≤55°C) 230V kW 3.2 400V kW 5.7 415V kW 6.2 440V kW 6.2 500V kW 7.5 690V kW 10 Short-time allowable current for 10s (IEC/EN60947-1) 150 А Protection fuse 32 gG (IEC) А aM (IEC) А 12 Making capacity (RMS value) А 120 Breaking capacity at voltage Breaking capacity 440V А 96 Breaking capacity 500V 96 А Breaking capacity 690V А 94 Resistance per pole (average value) mΩ 2.5 Power dissipation per pole (average value) Power dissipation pole (average value) Ith W 2 W 0.4 AC3 Tightening torque for terminals

## Tightening torque for coil terminal

min

max

min max Nm

Nm

lbft

lbft

1.5

1.8

1.1

1.5



		min	Nm	0.8
		max	Nm	1
		min	lbft	0.8
		max	lbft	0.74
	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			
		min	mm²	1
		max	mm²	4
	Flexible with insulated spade lug conductor section			
		min	mm²	1
		max	mm²	4
Power terminal protec	ction according to IEC/EN 60529	max		IP20 when wire
Auxiliary contact char				
Type of contact				1 NC
Thermal current Ith			Α	10
IEC/EN 60947-5-1 de	prignation		~	A600 - P600
			٨	
Operational current A			A	28
Operating current AC	15			
		230V	A	3
		400V	A	1.9
		500V	A	1.4
Operating current DC	12			
		110V	Α	5.7
Operating current DC	13			
		24V	А	5.7
		48V	А	2.9
		60V	A	2.3
				Screw / DIN rai
		110V	A	35mm
		125V	А	0.6
		220V	A	0.2
		220V 600V	A	1.2
Ambient conditions		0000	A	1.2
Temperature				
	Operating temperature	_		
		min	°C	-50
		max	°C	70
	Storage temperature			
	Storage temperature	min	°C	-60
	Storage temperature	min max	°C C°	80
Max altitude	Storage temperature			
	Storage temperature		°C	80
	Storage temperature		°C	80
	Storage temperature	max	°C	80 3000
Operating position	Storage temperature	normal	°C	80 3000 Vertical plan ±30°
Max altitude Operating position Mounting	Storage temperature	normal	°C	80 3000 Vertical plan

**BF1201A024** 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



Operations Mechanical life 20000000 Cycles Electrical life 2000000 Cycles Safety related data Performance level B10d according to EN/ISO 13489-1 2000000 rated load Cicli mechanical load Cicli 20000000 Mirror contats according to IEC/EN 609474-4-1 yes EMC compatibility yes AC coil operating AC operating voltage of 50/60Hz coil powered at 50Hz pick-up %Us 0.8 min max %Us 1.1 drop-out %Us 0.2 min max %Us 0.55 of 50/60Hz coil powered at 60Hz pick-up %Us 0.85 min max %Us 1.1 drop-out %Us min 0.2 %Us 0.55 max of 60Hz coil powered at 60Hz pick-up min %Us 0.8 max %Us 1.1 drop-out min %Us 0.2 max %Us 0.55 AC operating voltage of 50/60Hz coil powered at 50Hz in-rush VA 75 holding VA 9 of 50/60Hz coil powered at 60Hz VA 70 in-rush holding VA 6.5 of 60Hz coil powered at 60Hz VA 75 in-rush holding VA 9 Dissipation at holding ≤20°C 50Hz W 2.5 DC coil operating DC rated control voltage 250 max V Max cycles frequency Cycles/h 3600 Mechanical operations Operating times Average time for Us control in AC **Closing NO** 8 min ms

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max

ms

24

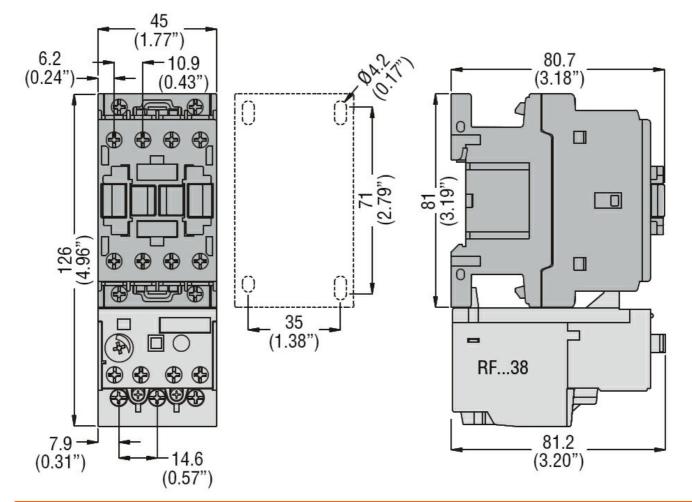


Opening NO			
	min n	าร	10
	max n	าร	20
Closing NC			
	min n	าร	14
	max n	าร	28
Opening NC			
	min n	าร	7
	max n	าร	18
UL technical data			
Full-load current (FLA) for three-phase AC motor			
at	480V	A	11
at	600V	A	11
Yielded mechanical performance			
for single-phase AC motor			
at 110	/120V ł	np	1
at	230V ł	р	2
for three-phase AC motor			
at 200	/208V ł	•	5
at 220		•	5
at 460	/480V ł	•	7.5
at 575	/600V ł	р	10
Contact rating of auxiliary contacts according to UL			A600 - P600
General USE			
Contactor			
AC c	urrent	A	28
Other features			
Pollution degree			3
Dimensions			

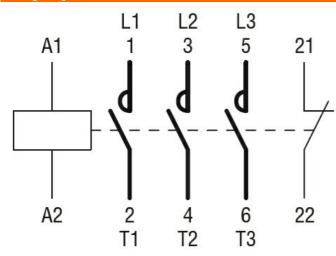
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THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 12A, AC COIL 50/60HZ, 24VAC, 1NC AUXILIARY CONTACT



Wiring diagrams



## Certification Certification

Certifications and co	mpliance
Certifications	
	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
Compliance	

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C	000
c	CULus
E	EAC
24 C	

ETIM 6 classification

EC000066 - Power contactor, AC switching