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Product designation		Power contactor
Product type designation		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	Α	25
Operating current		
Operational current AC3 (≤440V ≤55°C)	Α	9
Operational current AC4 (400V)	Α	4.9
Short-time allowable current for 10s (IEC/EN60947-1)	Α	150
Protection fuse		
gG (IEC)	Α	25
aM (IEC)	A	10
Making capacity (RMS value)	A	90
Breaking capacity at voltage		
Breaking capacity 440V	Α	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)	11132	2.0
Power dissipation per pole (average value) Power dissipation pole (average value) Ith	W	1.6
AC3	W	0.2
Tightening torque for terminals	VV	0.2
min	Nm	1.5
max	Nm	1.8
min	lbft	1.1
	Ibft	1.5
Tightoning targue for sail terminal	IDIL	1.3
Tightening torque for coil terminal	Nlm	0.0
min	Nm Nm	0.8
max	Nm	1
min	lbft	0.59
max	lbft	0.74
max number of wires simultaneously connectable	nr.	2
Conductor section		
AWG		4.0
min		16
max		10
Flexible w/o lug conductor section	_	
min	mm²	1
max	mm²	6
Flexible c/w lug conductor section		

1/5





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		min	mm²	1
		max	mm²	4
	Flexible with insulated spade lug conductor section			
		min	mm²	1
-		max	mm²	4
	tion according to IEC/EN 60529			IP20
Auxiliary contact chara	cteristics			
Type of contact				1 NA
Thermal current Ith			Α	25
IEC/EN 60947-5-1 des	signation			A600
Ambient conditions				
Temperature				
·	Operating temperature			
	-1	min	°C	-50
		max	°C	70
	Storage temperature	max		10
	Storago temperaturo	min	°C	-60
		max	°C	80
Max altitude		Παχ		
			m	3,000
Operating position				N
		ormal		Vertical plan
=	allov	wable		±30°
Mounting				Screw / DIN rail
				35mm
Weight			g	0.367
Operations				
Mechanical life			Cycles	20,000,000
Electrical life			Cycles	2000000
Safety related data				
Performance level B10	0d according to EN/ISO 13489-1 -			
	Performance level B10d according to			
	Performance level B10d according to	EN/IS	88 160 DOS	-12010000100000000000000000000000000000
Mirror contats according	ng to IEC/EN 609474-4-1			Yes
EMC compatibility				Yes
AC coil operating				
Rated AC voltage at 50)/60Hz, 60Hz			
Ü	,	min	V	12
		max	V	600
AC operating voltage			<u> </u>	
Je sporaming voltage	of 50/60Hz coil powered at 50Hz			
	pick-up			
	ριοκ-αρ	min	%Us	80
	drop cut	max	%Us	110
	drop-out		0/11-	20
		min	%Us	20
		max	%Us	55
	4-24-21			
	of 50/60Hz coil powered at 60Hz			
	of 50/60Hz coil powered at 60Hz pick-up			
		min	%Us	85
		min max	%Us %Us	85 110
	pick-up			
	pick-up	max	%Us	110





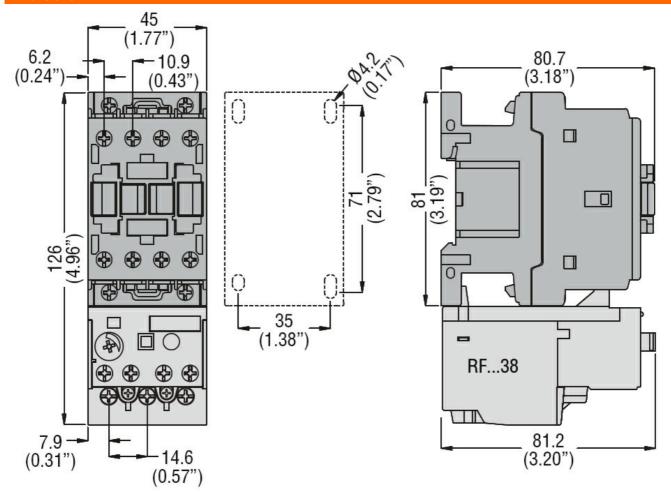
	of 60Hz poil noward at 60Hz			
	of 60Hz coil powered at 60Hz			
	pick-up	i	0/11	0.0
		min	%Us	80
		max	%Us	110
	drop-out			
		min	%Us	20
		max	%Us	55
AC operating voltage				
	of 50/60Hz coil powered at 50Hz			
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	in-rush	VA	75
		holding	VA	9
	of 50/60Hz coil powered at 60Hz	Holding	VA	<u> </u>
	of 50/60Hz coil powered at 60Hz	مام س من	١/٨	70
		in-rush	VA	70
		holding	VA	6.5
	of 60Hz coil powered at 60Hz			
		in-rush	VA	75
		holding	VA	9
Dissipation at holding	≤20°C 50Hz		W	2.5
Max cycles frequency				
Mechanical operations	<u> </u>		Cycles/h	3 600
Operating times	,		Cyclcs/11	0,000
	ontrol			
Average time for Us of				
	in AC			
	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	Παλ	1113	20
	Opening NC			-
		min	ms	7
		max	ms	18
UL technical data				
Full-load current (FLA)) for three-phase AC motor			
		at 480V	Α	7.6
		at 600V	Α	9
Yielded mechanical pe	erformance			
2.2.2.2	for single-phase AC motor			
	ioi diligio pilado / to filotoi	at 110/120V	hp	0.75
			•	
	for the constant AQ	at 230V	hp	2
	for three-phase AC motor		_	
		at 200/208V	hp	3
		at 220/230V	hp	3
		at 460/480V	hp	5
		at 575/600V	hp	7.5
Contact rating of auxili	ary contacts according to UL			SI - A600
General USE	,			
20110101 OOL	Contactor			
	Contactor	AC 0110000	٨	25
	A. a. dlama a santa ata	AC current	A	25
	Auxiliary contacts			
		AC voltage	V	600



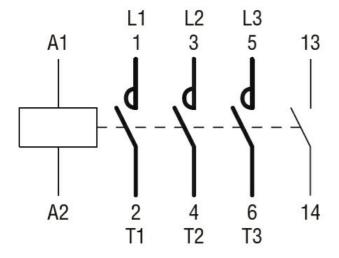


AC current A 10
DC voltage V 250
DC current A 1

Dimensions



Wiring diagrams



Certifications and compliance

Certifications

CSA C22.2 n° 60947-1

CSA C22.2 n° 60947-4-1

IEC/EN 60947-1

IEC/EN 60947-4-1



BF0910A024

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

	UL 60947-1	
	UL 60947-4-1	
Compliance		
	CCC	
	cULus	
	FΔC	

ETIM 6 classification

EC000066 - Power contactor, AC switching