

Product designation				Auxiliary contactor
Product type designat	lion			BF00
Contact characteristic				Broo
Number of poles			Nr.	4
Rated insulation voltage	ge Ui IEC/EN		V	690
Rated impulse withsta	-		kV	6
Operational frequency	-			
		min	Hz	25
		max	Hz	400
IEC Conventional free	air thermal current Ith		Α	10
Operational current le				
1		AC-1 (≤55°C)	А	0
Protection fuse		- ()		
		gG (IEC)	А	25
Tightening torque for t	terminals	9- ()		
		min	Nm	1.5
		max	Nm	1.8
		min	Ibin	1.1
		max	Ibin	1.5
Tightening torque for	coil terminal			
		min	Nm	0.8
		max	Nm	1
		min	Ibin	0.8
		max	Ibin	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
		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			IP20 when
· · ·				properly wired
Mechanical features				
Operating position				
		normal		Vertical plan
		allowable		±30°



Fixing				Screw / DIN rail 35mm
Weight			g	366
Auxiliary contact characteristics				
Thermal current Ith			А	10
IEC/EN 60947-5-1 designation				A600 - P600
Operating current AC15				•
		230V	A	3
		400V	A	1.9
Operating current DC12		500V	A	1.4
Operating current DC12		110V	А	5.7
Operating current DC13		1100	A	5.7
Operating current DC13		24V	А	5.7
		24 V 48 V	A	2.9
		40V 60V	A	2.3
		110V	A	1.25
		125V	A	1.1
		220V	A	0.55
		600V	А	0.2
Operations				
Mechanical life			cycles	2000000
Safety related data				
Performance level B10d according to EN/ISO 13	3489-1			
		mechanical load	cycles	2000000
EMC compatibility				yes
AC coil operating				
Rated AC voltage at 60Hz			V	48
Rated AC voltage at 60Hz AC operating voltage			V	48
Rated AC voltage at 60Hz AC operating voltage of 60Hz coil powered at			V	48
Rated AC voltage at 60Hz AC operating voltage of 60Hz coil powered at	60Hz pick-up			
Rated AC voltage at 60Hz AC operating voltage of 60Hz coil powered at		min	%Us	80
Rated AC voltage at 60Hz AC operating voltage of 60Hz coil powered at	pick-up	min max		
Rated AC voltage at 60Hz AC operating voltage of 60Hz coil powered at		max	%Us %Us	80 110
Rated AC voltage at 60Hz AC operating voltage of 60Hz coil powered at	pick-up	max	%Us %Us %Us	80 110 20
Rated AC voltage at 60Hz AC operating voltage of 60Hz coil powered at	pick-up	max	%Us %Us	80 110
Rated AC voltage at 60Hz AC operating voltage of 60Hz coil powered at AC average coil consumption at 20°C	pick-up drop-out	max	%Us %Us %Us	80 110 20
Rated AC voltage at 60Hz AC operating voltage of 60Hz coil powered at	pick-up drop-out	max min max	%Us %Us %Us %Us	80 110 20 55
Rated AC voltage at 60Hz AC operating voltage of 60Hz coil powered at AC average coil consumption at 20°C	pick-up drop-out	max min max in-rush	%Us %Us %Us	80 110 20 55 75
Rated AC voltage at 60Hz AC operating voltage of 60Hz coil powered at AC average coil consumption at 20°C	pick-up drop-out	max min max	%Us %Us %Us %Us	80 110 20 55
Rated AC voltage at 60Hz AC operating voltage of 60Hz coil powered at AC average coil consumption at 20°C of 60Hz coil powered at	pick-up drop-out	max min max in-rush	%Us %Us %Us %Us VA VA	80 110 20 55 75 9
Rated AC voltage at 60Hz AC operating voltage of 60Hz coil powered at AC average coil consumption at 20°C of 60Hz coil powered at Dissipation at holding ≤20°C 50Hz	pick-up drop-out	max min max in-rush	%Us %Us %Us %Us VA VA	80 110 20 55 75 9 2.5
Rated AC voltage at 60Hz AC operating voltage of 60Hz coil powered at AC average coil consumption at 20°C of 60Hz coil powered at Dissipation at holding ≤20°C 50Hz Max cycles frequency	pick-up drop-out	max min max in-rush	%Us %Us %Us %Us VA VA VA W	80 110 20 55 75 9 2.5
Rated AC voltage at 60Hz AC operating voltage of 60Hz coil powered at AC average coil consumption at 20°C of 60Hz coil powered at Dissipation at holding ≤20°C 50Hz Max cycles frequency Mechanical operation	pick-up drop-out	max min max in-rush	%Us %Us %Us %Us VA VA VA W	80 110 20 55 75 9 2.5
Rated AC voltage at 60Hz AC operating voltage of 60Hz coil powered at AC average coil consumption at 20°C of 60Hz coil powered at Dissipation at holding ≤20°C 50Hz Max cycles frequency Mechanical operation Operating times Average time for Us control in AC	pick-up drop-out 60Hz	max min max in-rush	%Us %Us %Us %Us VA VA VA W	80 110 20 55 75 9 2.5
Rated AC voltage at 60Hz AC operating voltage of 60Hz coil powered at AC average coil consumption at 20°C of 60Hz coil powered at Dissipation at holding ≤20°C 50Hz Max cycles frequency Mechanical operation Operating times Average time for Us control in AC	pick-up drop-out	max min max in-rush holding	%Us %Us %Us %Us VA VA VA W	80 110 20 55 75 9 2.5 3600
Rated AC voltage at 60Hz AC operating voltage of 60Hz coil powered at AC average coil consumption at 20°C of 60Hz coil powered at Dissipation at holding ≤20°C 50Hz Max cycles frequency Mechanical operation Operating times Average time for Us control in AC	pick-up drop-out 60Hz	max min max in-rush holding min	%Us %Us %Us %Us VA VA VA VA vA w va ms	80 110 20 55 75 9 2.5 3600 8
Rated AC voltage at 60Hz AC operating voltage of 60Hz coil powered at AC average coil consumption at 20°C of 60Hz coil powered at Dissipation at holding ≤20°C 50Hz Max cycles frequency Mechanical operation Operating times Average time for Us control in AC	pick-up drop-out 60Hz Closing NO	max min max in-rush holding	%Us %Us %Us %Us VA VA VA VA vA	80 110 20 55 75 9 2.5 3600
Rated AC voltage at 60Hz AC operating voltage of 60Hz coil powered at AC average coil consumption at 20°C of 60Hz coil powered at Dissipation at holding ≤20°C 50Hz Max cycles frequency Mechanical operation Operating times Average time for Us control in AC	pick-up drop-out 60Hz	max min max in-rush holding min max	%Us %Us %Us %Us VA VA VA vA w cycles/h	80 110 20 55 75 9 2.5 3600 8 24
Rated AC voltage at 60Hz AC operating voltage of 60Hz coil powered at AC average coil consumption at 20°C of 60Hz coil powered at Dissipation at holding ≤20°C 50Hz Max cycles frequency Mechanical operation Operating times Average time for Us control in AC	pick-up drop-out 60Hz Closing NO	max min max in-rush holding min max min	%Us %Us %Us %Us VA VA VA vA vA w cycles/h	80 110 20 55 75 9 2.5 3600 8 24 10
Rated AC voltage at 60Hz AC operating voltage of 60Hz coil powered at AC average coil consumption at 20°C of 60Hz coil powered at Dissipation at holding ≤20°C 50Hz Max cycles frequency Mechanical operation Operating times Average time for Us control in AC	pick-up drop-out 60Hz Closing NO Opening NO	max min max in-rush holding min max	%Us %Us %Us %Us VA VA VA vA w cycles/h	80 110 20 55 75 9 2.5 3600 8 24
Rated AC voltage at 60Hz AC operating voltage of 60Hz coil powered at AC average coil consumption at 20°C of 60Hz coil powered at Dissipation at holding ≤20°C 50Hz Max cycles frequency Mechanical operation Operating times Average time for Us control in AC	pick-up drop-out 60Hz Closing NO	max min max in-rush holding min max min	%Us %Us %Us %Us VA VA VA vA vA w cycles/h	80 110 20 55 75 9 2.5 3600 8 24 10

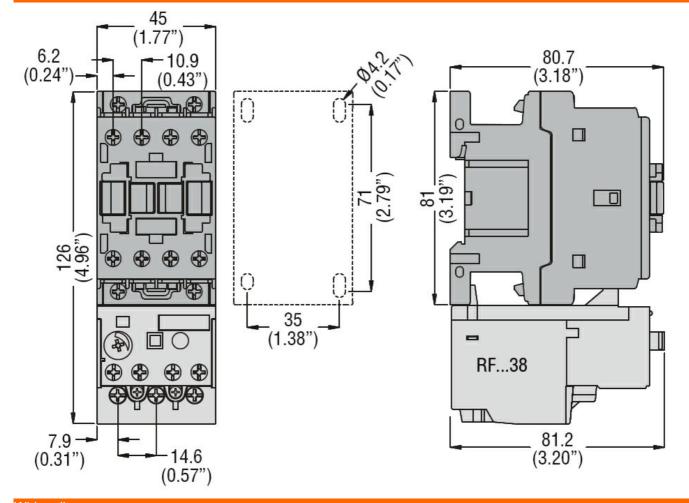
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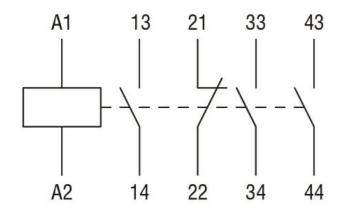
CONTROL RELAY WITH AC COIL 60HZ, 48VAC, 3NO AND 1NC

	max	ms	28
Opening	NC		
	min	ms	7
	max	ms	18
UL technical data			
Rated operational voltage AC (UL)		V	600
General USE			
Auxiliary contacts			
	AC current	А	10
Contact rating of auxiliary contacts according to UL			A600 - P600
Ambient conditions			
Temperature			
Operating temperature			
	min	°C	-50
	max	°C	70
Storage temperature			
	min	°C	-60
	max	°C	80
Max altitude		m	3000
Resistance & Protection			
Pollution degree			3
Dimensions			



Wiring diagrams





Certifications and compliance

Compliance		
-	CSA C22.2 n° 60947-1	
	CSA C22.2 n° 60947-5-1	
	IEC/EN 60947-1	
	IEC/EN 60947-5-1	
	UL 60947-1	
	UL 60947-5-1	
Certificates		
	CCC	
	cULus	
	EAC	
ETIM classification		
		EC000106

ETIM 8.0

EC000196 -Contactor relay