



Product designation				Auxiliary
Product type designation				contactor BF00
Contact characteristic				DI 00
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		А	10
Protection fuse				
		gG (IEC)	А	25
Tightening torque for t	erminals			
		min	Nm	1.5
		max	Nm	1.8
		min	lbin	1.1
		max	lbin	1.5
Tightening torque for a	coil terminal			
		min	Nm	0.8
		max	Nm	1
		min	lbin	0.8
		max	lbin	0.74
	simultaneously connectable		Nr.	2
Conductor section				
	AWG/Kcmil			10
		max		10
	Flexible w/o lug conductor section			4
		min	mm²	1
	Flexible c/w lug conductor section	max	mm²	6
	Flexible c/w lug conductor section	min	mm²	1
		max	mm²	4
	Flexible with insulated spade lug conductor section	IIIdA		4
		min	mm²	1
		max	mm²	4
				IP20 when
Power terminal protec	tion according to IEC/EN 60529			properly wired
Mechanical features				
Operating position				
		normal		Vertical plan
		allowable		±30°
Fixing				Screw / DIN rail
				35mm
Weight			g	366



Conductor section

AWG/kcmil conductor section

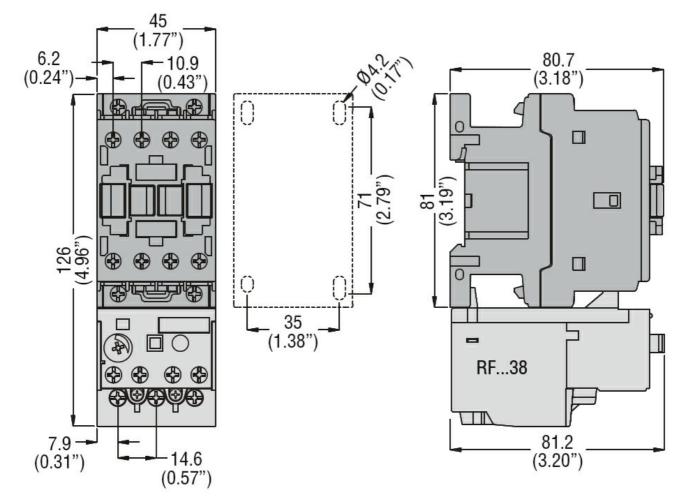
		max		10
Auxiliary contact chara	acteristics			
Thermal current Ith			А	10
IEC/EN 60947-5-1 de	signation			A600 - P600
Operating current AC1	15			
		230V	А	3
		400V	А	1.9
		500V	А	1.4
Operating current DC1	12			
		110V	А	5.7
Operating current DC1	13			
		24V	А	5.7
		48V	А	2.9
		60V	А	2.3
		110V	А	1.25
		125V	А	1.1
		220V	А	0.55
		600V	А	0.2
Operations				
Mechanical life			cycles	2000000
Safety related data				
Performance level B1	0d according to EN/ISO 13489-1			
		mechanical load	cycles	2000000
Mirror contats accordi	ng to IEC/EN 609474-4-1			YES
EMC compatibility				yes
AC coil operating				
Rated AC voltage at 5	0/60Hz		V	400
Rated AC voltage at 5 AC operating voltage	0/60Hz		V	400
	0/60Hz of 50/60Hz coil powered at 50Hz		V	400
			V	400
	of 50/60Hz coil powered at 50Hz	min	V %Us	400 80
	of 50/60Hz coil powered at 50Hz	min max		
-	of 50/60Hz coil powered at 50Hz		%Us	80
-	of 50/60Hz coil powered at 50Hz pick-up		%Us	80
	of 50/60Hz coil powered at 50Hz pick-up drop-out	max	%Us %Us	80 110
	of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz	max	%Us %Us %Us	80 110 20
	of 50/60Hz coil powered at 50Hz pick-up drop-out	max	%Us %Us %Us %Us	80 110 20 55
	of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz	max	%Us %Us %Us %Us	80 110 20 55 80
	of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up	max min max	%Us %Us %Us %Us	80 110 20 55
	of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz	max min max min max	%Us %Us %Us %Us %Us	80 110 20 55 80 110
	of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up	max min max min	%Us %Us %Us %Us %Us %Us	80 110 20 55 80 110 20
AC operating voltage	of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up drop-out	max min max min max	%Us %Us %Us %Us %Us	80 110 20 55 80 110
	of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up drop-out	max min max min max min	%Us %Us %Us %Us %Us %Us	80 110 20 55 80 110 20
AC operating voltage	of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up drop-out	max min max min max min max	%Us %Us %Us %Us %Us %Us %Us	80 110 20 55 80 110 20 55
AC operating voltage	of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up drop-out	max min max min max min max in-rush	%Us %Us %Us %Us %Us %Us %Us	80 110 20 55 80 110 20 55 75
AC operating voltage	of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up drop-out	max min max min max min max	%Us %Us %Us %Us %Us %Us %Us	80 110 20 55 80 110 20 55
AC operating voltage	of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up drop-out	max min max min max min max in-rush holding	%Us %Us %Us %Us %Us %Us %Us %Us	80 110 20 55 80 110 20 55 75 9
AC operating voltage	of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up drop-out	max min max min max min max in-rush holding in-rush	%Us %Us %Us %Us %Us %Us %Us %Us %Us %Us	80 110 20 55 80 110 20 55 75 9 70
AC operating voltage	of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up drop-out umption at 20°C of 50/60Hz coil powered at 50Hz of 50/60Hz coil powered at 60Hz	max min max min max min max in-rush holding	%Us %Us %Us %Us %Us %Us %Us %Us	80 110 20 55 80 110 20 55 75 9
AC operating voltage	of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up drop-out	max min max min max min max in-rush holding in-rush holding	%Us %Us %Us %Us %Us %Us %Us %Us VA VA VA	80 110 20 55 80 110 20 55 75 9 70 6.5
AC operating voltage	of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up drop-out umption at 20°C of 50/60Hz coil powered at 50Hz of 50/60Hz coil powered at 60Hz	max min max min max min max in-rush holding in-rush	%Us %Us %Us %Us %Us %Us %Us %Us %Us %Us	80 110 20 55 80 110 20 55 75 9 70

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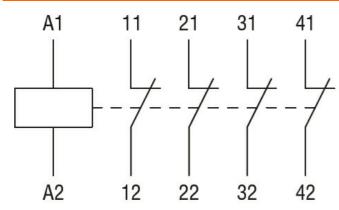


Max cycles frequency cycles/h 3600 Operating times				holding	VA	9
Mechanical operation cycles/h 3600 Operating times		C 50Hz			W	2.5
Operating times Average time for Us control in AC Closing NO Closing NO min ms 8 Opening NO min ms 24 Opening NO min ms 24 Closing NO min ms 24 Opening NO min ms 24 Closing NC min ms 9 max ms 9 max ms 25 Opening NC min ms 9 max ms 15 UL technical data max ms 15 15 10<						
Average time for Us control in AC Closing NO min ms 8 max ms 24 Opening NO min ms 10 max ms 20 Closing NC min ms 9 max ms 25 Opening NC min ms 9 max ms 25 Opening NC min ms 9 max ms 15 UL technical data General USE Auxiliary contacts General USE Auxiliary contacts according to UL Ab60 - P600 Ambient conditions Temperature Operating temperature Max altitude Max altitude Max altitude Max altitude Max altitude Max altitude Max altitude Max altitude Max altitude Max altitude Pollution degree Source Max altitude Pollution degree Source Max altitude Pollution degree Source Max altitude Pollution degree Source Sour					cycles/h	3600
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Closing NO min ms 8 max ms 8 Max max ms 24 Opening NO min ms 10 max ms 20 20 Closing NC min ms 9 max ms 25 25 Opening NC min ms 9 max ms 9 3 Opening NC max ms 9 max ms 9 3 Opening NC max ms 9 max ms 9 3 Opening NC max ms 9 Max ms 9 3 Openary Ontacts max ms 9 Auxiliary contacts according to UL AC current A 10 Ambient conditions max *C 70 Ambient conditions max *C 70 Storage temperature	•					
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Max ms 24 Opening NO min ms 10 min ms 20 Closing NC min ms 9 max ms 15 Utechnical data General USE Auxiliary contacts Accurrent A Absolo - P600 Ambient conditions A600 - P600 Ambient conditions max °C 70 Temperature min °C 50 Max altitude max °C 70 Storage temperature min °C 80 <tr< td=""><td></td><td>010311</td><td></td><td>min</td><td>ms</td><td>8</td></tr<>		010311		min	ms	8
min ms 10 max ms 20 Closing NC min ms 9 max ms 25 Opening NC min ms 9 max ms 15 UL technical data min ms 9 General USE Auxiliary contacts min ms 15 Contact rating of auxiliary contacts according to UL A600 - P600 A600 - P600 Ambient conditions min °C -50 Temperature Operating temperature min °C -50 Max altitude min °C -60 -60 Max altitude min °C 80 -60						
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Closing NC min ms 9 max ms 25 Opening NC min ms 9 max ms 9 15 UL technical data General USE Auxiliary contacts aC current A 10 Contact rating of auxiliary contacts according to UL A600 - P600 Ambient conditions Temperature Operating temperature min °C -50 Storage temperature min °C -50 Max altitude min °C -60 Max altitude min °C -60 Pollution degree 3 -			-	min	ms	10
min ms 9 Max ms 9 Max ms 25 Max ms 9 Max altitude m 3				max	ms	20
max ms 25 min ms 9 max ms 9 max ms 15 UL technical data General USE Auxiliary contacts AC current A 10 Contact rating of auxiliary contacts according to UL A 600 - P600 Ambient conditions A600 - P600 Temperature min °C -50 Operating temperature min °C -50 Storage temperature min °C -60 Max altitude m 3000 Resistance & Protection 3		Closin	ig NC			
Opening NC min ms 9 max ms 15 UL technical data max ms 15 General USE Auxiliary contacts a 10 Contact rating of auxiliary contacts according to UL A 10 Contact rating of auxiliary contacts according to UL A600 - P600 Ambient conditions A600 - P600 Temperature min °C Operating temperature min °C Storage temperature min °C Max altitude m 3000 Resistance & Protection 3				min	ms	
min ms 9 max ms 15 UL technical data General USE Auxiliary contacts Auxiliary contacts AC current A 10 Contact rating of auxiliary contacts according to UL A600 - P600 Ambient conditions X X Temperature Operating temperature Min °C -50 Max °C 70 -50 Storage temperature min °C -60 Max altitude m 3000 Resistance & Protection 3		o .	NO	max	ms	25
max ms 15 UL technical data General USE Image: Second Sec		Openi	ng NC			0
UL technical data General USE Auxiliary contacts AC current A 10 Contact rating of auxiliary contacts according to UL A600 - P600 Ambient conditions Temperature Operating temperature min °C -50 Max °C -50						
General USE Auxiliary contacts AC current A 10 Contact rating of auxiliary contacts according to UL A600 - P600 Ambient conditions - - Temperature - - Operating temperature - - Max altitude min °C -50 Max altitude min °C -60 Pollution degree 3 -	UL technical data			Παλ	1115	15
Auxiliary contacts AC current A 10 Contact rating of auxiliary contacts according to UL A600 - P600 Ambient conditions Accurrent Accurrent Temperature Operating temperature						
AC current A 10 Contact rating of auxiliary contacts according to UL A600 - P600 Ambient conditions Temperature Temperature 0perating temperature Min °C -50 max °C 70 Storage temperature min °C -60 Max altitude m 3000 Resistance & Protection 3		xiliary contacts				
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		, , , , , , , , , , , , , , , , , , ,	AC	current	А	10
Temperature Operating temperature min °C -50 max °C 70 Storage temperature min °C -60 max °C 80 Max altitude m 3000 Resistance & Protection 3	Contact rating of auxiliary of	contacts according to UL				A600 - P600
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	Ambient conditions					
min°C-50max°C70Storage temperaturemin°CMax altitudemin°CResistance & ProtectionmPollution degree3	Temperature					
max°C70Storage temperaturemin°C-60max°C80Max altitudem3000Resistance & Protection3	Op	perating temperature				
Storage temperature min °C -60 max °C 80 Max altitude m 3000 Resistance & Protection J Pollution degree 3				min		
min max°C °C-60 80Max altitudem3000Resistance & Protection3				max	°C	70
max°C80Max altitudem3000Resistance & Protection3	Sto	orage temperature			°C	<u></u>
Max altitudem3000Resistance & Protection3						
Resistance & Protection Pollution degree 3	Mox altituda			max		
Pollution degree 3					111	3000
						3
	Dimensions					~





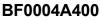
Wiring diagrams



Certifications and compliance 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

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ETIM classification

ETIM 8.0

CONTROL RELAY WITH AC COIL 50/60HZ, 400VAC, 4NC

EC000196 -Contactor relay