



Product designation				Auxiliary
Product type designat	lion			contactor BF00
Contact characteristic				BFUU
Number of poles	5		Nr.	4
Rated insulation voltage	ge Lli IEC/EN		V	690
Rated impulse withsta	-		kV	6
Operational frequency	· · ·		K V	0
Operational frequency		min	Hz	25
		max	Hz	400
IEC Conventional free	air thermal current lth	Πάλ	A	10
Operational current le			~	10
Operational current le		AC-1 (≤55°C)	А	0
Droto otion fuon		AC-1 (\$55 C)	A	0
Protection fuse			^	25
Ticktonia a terrar for t		gG (IEC)	A	25
Tightening torque for t	terminais		N.L.,	4 5
		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	lbin	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 protection according to IEC/EN 60529			IP20 when	
				properly wired
Mechanical features				
Operating position				
		normal		Vertical plan
		allowable		±30°

BF0031D110

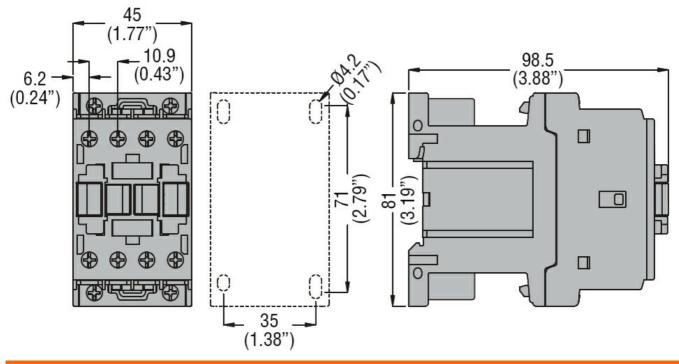


Fixing			Screw / DIN rail 35mm
Weight		g	495
Conductor section			
AWG/kcmil conductor section			
	max		10
Auxiliary contact characteristics			
Thermal current Ith		А	10
IEC/EN 60947-5-1 designation			A600 - P600
Operating current AC15			
	230V	А	3
	400V	А	1.9
	500V	А	1.4
Operating current DC12			
	110V	А	5.7
Operating current DC13			-
	24V	А	5.7
	48V	A	2.9
	40V 60V	A	2.3
	110V	A	1.25
	125V	A	1.1
	220V	A	0.55
	600V	A	0.2
Operations	0001	А	0.2
Mechanical life		cycles	20000000
Safety related data		Cycles	20000000
Performance level B10d according to EN/ISO 13489-1			
Fendinance level blou according to EN/ISO 15469-1	mechanical load	ovoloo	20000000
Mirror contate according to IEC/EN CO0474.4.4	mechanical load	cycles	
Mirror contats according to IEC/EN 609474-4-1			YES
			yes
DC coil operating		<i>.</i> .	
DC coil operating DC rated control voltage		V	yes 110
DC coil operating DC rated control voltage DC operating voltage		V	
DC coil operating DC rated control voltage			110
DC coil operating DC rated control voltage DC operating voltage	min	%Us	110 70
DC coil operating DC rated control voltage DC operating voltage pick-up	min max		110
DC coil operating DC rated control voltage DC operating voltage		%Us %Us	110 70 125
DC coil operating DC rated control voltage DC operating voltage pick-up		%Us %Us %Us	110 70 125 10
DC coil operating DC rated control voltage DC operating voltage pick-up drop-out	max	%Us %Us	110 70 125
DC coil operating DC rated control voltage DC operating voltage pick-up drop-out	maxmin	%Us %Us %Us	110 70 125 10
DC coil operating DC rated control voltage DC operating voltage pick-up drop-out	maxmin	%Us %Us %Us %Us	110 70 125 10
DC coil operating DC rated control voltage DC operating voltage pick-up drop-out Average coil consumption ≤20°C	max min max	%Us %Us %Us %Us	110 70 125 10 40
DC coil operating DC rated control voltage DC operating voltage pick-up drop-out Average coil consumption ≤20°C	max min max in-rush	%Us %Us %Us %Us	110 70 125 10 40 5.4
	max min max in-rush	%Us %Us %Us %Us	110 70 125 10 40 5.4 5.4
DC coil operating DC rated control voltage DC operating voltage pick-up drop-out Average coil consumption ≤20°C Max cycles frequency Mechanical operation	max min max in-rush	%Us %Us %Us %Us W W	110 70 125 10 40 5.4 5.4
DC coil operating DC rated control voltage DC operating voltage pick-up drop-out Average coil consumption ≤20°C Max cycles frequency Mechanical operation Operating times	max min max in-rush	%Us %Us %Us %Us W W	110 70 125 10 40 5.4 5.4
DC coil operating DC rated control voltage DC operating voltage pick-up drop-out Average coil consumption ≤20°C Max cycles frequency Mechanical operation Operating times	max min max in-rush	%Us %Us %Us %Us W W	110 70 125 10 40 5.4 5.4
DC coil operating DC rated control voltage DC operating voltage pick-up drop-out Average coil consumption ≤20°C Max cycles frequency Mechanical operation Operating times Average time for Us control	max min max in-rush	%Us %Us %Us %Us W W	110 70 125 10 40 5.4 5.4
DC coil operating DC rated control voltage DC operating voltage pick-up drop-out Average coil consumption ≤20°C Max cycles frequency Mechanical operation Operating times Average time for Us control in DC	max min max in-rush	%Us %Us %Us %Us W W	110 70 125 10 40 5.4 5.4
DC coil operating DC rated control voltage DC operating voltage pick-up drop-out Average coil consumption ≤20°C Max cycles frequency Mechanical operation Operating times Average time for Us control in DC	max min max in-rush holding min	%Us %Us %Us W W W cycles/h	110 70 125 10 40 5.4 5.4 3600
DC coil operating DC rated control voltage DC operating voltage pick-up drop-out Average coil consumption ≤20°C Max cycles frequency Mechanical operation Operating times Average time for Us control in DC Closing NO	max min max in-rush holding min max	%Us %Us %Us %Us W W	110 70 125 10 40 5.4 5.4 3600
DC coil operating DC rated control voltage DC operating voltage pick-up drop-out Average coil consumption ≤20°C Max cycles frequency Mechanical operation Operating times Average time for Us control in DC	max min max in-rush holding min max	%Us %Us %Us W W W Cycles/h	110 70 125 10 40 5.4 5.4 3600 54 66
DC coil operating DC rated control voltage DC operating voltage pick-up drop-out Average coil consumption ≤20°C Max cycles frequency Mechanical operation Operating times Average time for Us control in DC Closing NO	max min max in-rush holding min max	%Us %Us %Us W W W cycles/h	110 70 125 10 40 5.4 5.4 3600



CONTROL RELAY WITH DC COIL, 110VDC, 3NO AND 1NC

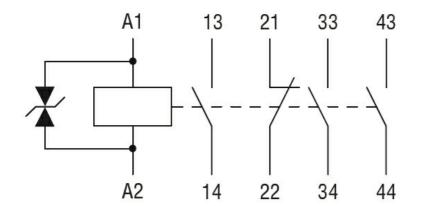
	Closing NC			
		min	ms	24
		max	ms	30
	Opening NC			
		min	ms	47
		max	ms	57
UL technical data				
General USE				
	Auxiliary contacts			
		AC current	А	10
Contact rating of auxil	iary contacts according to UL			A600 - P600
Ambient conditions				
Temperature				
	Operating temperature			
		min	°C	-50
		max	°C	70
	Storage temperature			
		min	°C	-60
		max	°C	80
Max altitude			m	3000
Resistance & Protecti	ion			
Pollution degree				3
Dimensions				



Wiring diagrams



BF0031D110 CONTROL RELAY WITH DC COIL, 110VDC, 3NO AND 1NC



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 EC000196 -ETIM 8.0

Contactor relay