



Product designation				Auxiliary
Product type designat	tion			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		A	10
Operational current le				
		AC-1 (≤55°C)	А	0
Protection fuse				
		gG (IEC)	А	25
Tightening torque for t	terminals			
		min	Nm	1.5
		max	Nm	1.8
		min	Ibin	1.1
		max	Ibin	1.5
Tightening torque for	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 protection according to IEC/EN 60529			IP20 when	
•	Ŭ, Santa de la constante de l			properly wired
Mechanical features				
Operating position		, a a maa a l		Vertical star
		normal		Vertical plan ±30°
		allowable		±30

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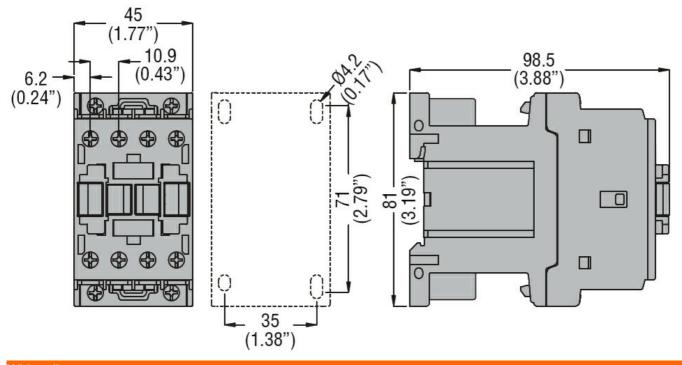
Fixing			Screw / DIN rail 35mm
Weight		g	500
Conductor section			
AWG/kcmil conductor section			
	max		10
Auxiliary contact characteristics		٨	10
Thermal current lth		A	10
IEC/EN 60947-5-1 designation Operating current AC15			A600 - P600
Operating current AC 15	230V	А	3
	400V	A	1.9
	400V 500V	A	1.4
Operating current DC12			
	110V	А	5.7
Operating current DC13			
	24V	А	5.7
	48V	А	2.9
	60V	А	2.3
	110V	А	1.25
	125V	А	1.1
	220V	A	0.55
	600V	А	0.2
		avalaa	2000000
Mechanical life		cycles	20000000
Mechanical life Safety related data		cycles	20000000
Operations Mechanical life Safety related data Performance level B10d according to EN/ISO 13489-1	mechanical load		
Mechanical life Safety related data Performance level B10d according to EN/ISO 13489-1	mechanical load	cycles cycles	20000000
Mechanical life Safety related data Performance level B10d according to EN/ISO 13489-1 Mirror contats according to IEC/EN 609474-4-1	mechanical load		20000000 YES
Mechanical life Safety related data Performance level B10d according to EN/ISO 13489-1 Mirror contats according to IEC/EN 609474-4-1 EMC compatibility	mechanical load		20000000
Mechanical life Safety related data Performance level B10d according to EN/ISO 13489-1 Mirror contats according to IEC/EN 609474-4-1 EMC compatibility DC coil operating	mechanical load		20000000 YES
Mechanical life Safety related data Performance level B10d according to EN/ISO 13489-1 Mirror contats according to IEC/EN 609474-4-1 EMC compatibility DC coil operating DC rated control voltage	mechanical load	cycles	20000000 YES yes
Mechanical life Safety related data Performance level B10d according to EN/ISO 13489-1 Mirror contats according to IEC/EN 609474-4-1 EMC compatibility DC coil operating DC rated control voltage	mechanical load	cycles	20000000 YES yes
Mechanical life Safety related data Performance level B10d according to EN/ISO 13489-1 Mirror contats according to IEC/EN 609474-4-1 EMC compatibility DC coil operating DC rated control voltage DC operating voltage	mechanical load	cycles V %Us	20000000 YES yes 24 70
Mechanical life Safety related data Performance level B10d according to EN/ISO 13489-1 Mirror contats according to IEC/EN 609474-4-1 EMC compatibility DC coil operating DC rated control voltage DC operating voltage pick-up		cycles V	20000000 YES yes 24
Mechanical life Safety related data Performance level B10d according to EN/ISO 13489-1 Mirror contats according to IEC/EN 609474-4-1 EMC compatibility DC coil operating DC rated control voltage DC operating voltage	min max	v v v vus vus	20000000 YES yes 24 70 125
Mechanical life Safety related data Performance level B10d according to EN/ISO 13489-1 Mirror contats according to IEC/EN 609474-4-1 EMC compatibility DC coil operating DC rated control voltage DC operating voltage pick-up	min max min	v v v v v v v v v v v v v v v v v v v	20000000 YES yes 24 70 125 10
Mechanical life Safety related data Performance level B10d according to EN/ISO 13489-1 Mirror contats according to IEC/EN 609474-4-1 EMC compatibility DC coil operating DC rated control voltage DC operating voltage pick-up drop-out	min max	v v v vus vus	20000000 YES yes 24 70 125
Mechanical life Safety related data Performance level B10d according to EN/ISO 13489-1 Mirror contats according to IEC/EN 609474-4-1 EMC compatibility DC coil operating DC rated control voltage DC operating voltage pick-up drop-out	min max min max	v v v v v v v v v v v v v v v v v v v	20000000 YES yes 24 70 125 10 40
Mechanical life Safety related data Performance level B10d according to EN/ISO 13489-1 Mirror contats according to IEC/EN 609474-4-1 EMC compatibility DC coil operating DC rated control voltage DC operating voltage pick-up drop-out	min max min max in-rush	Cycles V %Us %Us %Us %Us %Us %Us %Us	20000000 YES yes 24 70 125 10 40 5.4
Mechanical life Safety related data Performance level B10d according to EN/ISO 13489-1 Mirror contats according to IEC/EN 609474-4-1 EMC compatibility DC coil operating DC rated control voltage DC operating voltage pick-up drop-out Average coil consumption ≤20°C	min max min max	v v v v v v v v v v v v v v v v v v v	20000000 YES yes 24 70 125 10 40
Mechanical life Safety related data Performance level B10d according to EN/ISO 13489-1 Mirror contats according to IEC/EN 609474-4-1 EMC compatibility DC coil operating DC rated control voltage DC operating voltage pick-up drop-out Average coil consumption ≤20°C Max cycles frequency	min max min max in-rush	Cycles V %Us %Us %Us %Us %Us W W W	20000000 YES yes 24 70 125 10 40 5.4 5.4
Mechanical life Safety related data Performance level B10d according to EN/ISO 13489-1 Mirror contats according to IEC/EN 609474-4-1 EMC compatibility DC coil operating DC rated control voltage DC operating voltage pick-up drop-out Average coil consumption ≤20°C Max cycles frequency Mechanical operation	min max min max in-rush	Cycles V %Us %Us %Us %Us %Us %Us %Us	20000000 YES yes 24 70 125 10 40 5.4 5.4
Mechanical life Safety related data Performance level B10d according to EN/ISO 13489-1 Mirror contats according to IEC/EN 609474-4-1 EMC compatibility 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	min max min max in-rush	Cycles V %Us %Us %Us %Us %Us W W W	20000000 YES yes 24 70 125 10 40 5.4 5.4
Mechanical life Safety related data Performance level B10d according to EN/ISO 13489-1 Mirror contats according to IEC/EN 609474-4-1 EMC compatibility 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	min max min max in-rush	Cycles V %Us %Us %Us %Us %Us W W W	20000000 YES yes 24 70 125 10 40 5.4 5.4
Mechanical life Safety related data Performance level B10d according to EN/ISO 13489-1 Mirror contats according to IEC/EN 609474-4-1 EMC compatibility 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	min max min max in-rush	Cycles V %Us %Us %Us %Us %Us W W W	20000000 YES yes 24 70 125 10 40 5.4 5.4
Mechanical life Safety related data Performance level B10d according to EN/ISO 13489-1 Mirror contats according to IEC/EN 609474-4-1 EMC compatibility 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	min max min max in-rush	Cycles V %Us %Us %Us %Us %Us W W W	20000000 YES yes 24 70 125 10 40 5.4 5.4
Mechanical life Safety related data Performance level B10d according to EN/ISO 13489-1 Mirror contats according to IEC/EN 609474-4-1 EMC compatibility 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	min max min max in-rush holding	cycles V %Us %Us %Us %Us %Us %Us %Us	20000000 YES yes 24 70 125 10 40 5.4 5.4 3600
Mechanical life Safety related data Performance level B10d according to EN/ISO 13489-1 Mirror contats according to IEC/EN 609474-4-1 EMC compatibility 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	min max min max in-rush holding min	cycles V %Us %Us %Us %Us %Us %Us %Us %Us %Us %Us	20000000 YES yes 24 70 125 10 40 5.4 5.4 3600
Mechanical life Safety related data Performance level B10d according to EN/ISO 13489-1 Mirror contats according to IEC/EN 609474-4-1 EMC compatibility 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	min max min max in-rush holding min	cycles V %Us %Us %Us %Us %Us %Us %Us %Us %Us %Us	20000000 YES yes 24 70 125 10 40 5.4 5.4 3600

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CONTROL RELAY WITH DC COIL, 24VDC, 3NO AND 1NC

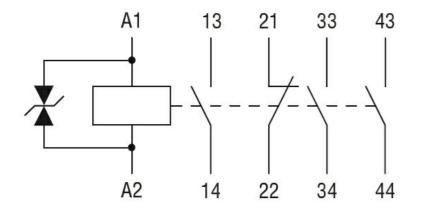
	Closing NC			
		min	ms	24
		max	ms	30
	Opening NC			
		min	ms	47
		max	ms	57
UL technical data				
General USE				
	Auxiliary contacts			
		AC current	А	10
Contact rating of aux	iliary contacts according to UL			A600 - P600
Ambient conditions				
Temperature				
	Operating temperature			
		min	°C	-50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



Wiring diagrams



BF0031D024 CONTROL RELAY WITH DC COIL, 24VDC, 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 60947-5-1 UL 60947-5-1 Certificates CCC CULus EAC ETIM classification EC000196 -

ETIM 8.0

EC000196 -Contactor relay