



Product designation				Auxiliary contactor
Product type designat	tion			BF00
Contact characteristic				
Number of poles			Nr.	4
Rated insulation volta	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
Operational current le				
		AC-1 (≤55°C)	А	0
Protection fuse				
		gG (IEC)	А	25
Tightening torque for	terminals	<u> </u>		
		min	Nm	1.5
		max	Nm	1.8
		min	Ibin	1.1
		max	Ibin	1.5
Tightening torque for	coil terminal			
5 5 1		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
				IP20 when
Power terminal protection according to IEC/EN 60529				properly wired
Mechanical features				
Operating position				
		normal		Vertical plan
		allowable		±30°

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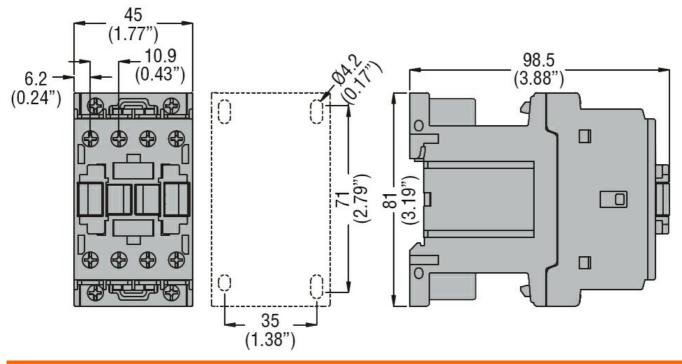
Fixing				Screw / DIN rail 35mm
Weight			g	496
Conductor section				
AWG/kcmil conductor section	ion			
		max		10
Auxiliary contact characteristics				
Thermal current Ith			А	10
IEC/EN 60947-5-1 designation				A600 - P600
Operating current AC15		0001/	٨	2
		230V	A	3
		400V	A	1.9
Operating surrent DC12		500V	A	1.4
Operating current DC12		110\/	٨	57
Operating current DC13		110V	A	5.7
Operating current DC15		241/	٨	57
		24V 48V	A A	5.7 2.9
		40V 60V	A	2.3
		110V	A	1.25
		125V	A	1.1
		220V	A	0.55
		600V	A	0.2
Operations				
Mechanical life			cycles	20000000
Safety related data				
Performance level B10d according to EN/ISO 1348	89-1			
		mechanical load	cycles	20000000
		meenamearioaa	0,0.00	20000000
Mirror contats according to IEC/EN 609474-4-1		meenamoarioad	0,0.00	YES
Mirror contats according to IEC/EN 609474-4-1 EMC compatibility		meenamearioad		
		meenanioarioaa		YES
EMC compatibility DC coil operating DC rated control voltage		meenanioarioaa	V	YES
EMC compatibility DC coil operating				YES yes
EMC compatibility DC coil operating DC rated control voltage			V	YES yes 48
EMC compatibility DC coil operating DC rated control voltage DC operating voltage		min	V %Us	YES yes 48 70
EMC compatibility DC coil operating DC rated control voltage DC operating voltage pick-up			V	YES yes 48
EMC compatibility DC coil operating DC rated control voltage DC operating voltage		min max	V %Us %Us	YES yes 48 70 125
EMC compatibility DC coil operating DC rated control voltage DC operating voltage pick-up		min max min	V %Us %Us %Us	YES yes 48 70 125 10
EMC compatibility DC coil operating DC rated control voltage DC operating voltage pick-up drop-out		min max	V %Us %Us	YES yes 48 70 125
EMC compatibility DC coil operating DC rated control voltage DC operating voltage pick-up		min max min max	V %Us %Us %Us %Us	YES yes 48 70 125 10 40
EMC compatibility DC coil operating DC rated control voltage DC operating voltage pick-up drop-out		min max min max in-rush	V %Us %Us %Us %Us W	YES yes 48 70 125 10 40 5.4
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 %Us %Us %Us %Us	YES yes 48 70 125 10 40
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	V %Us %Us %Us %Us W W	YES yes 48 70 125 10 40 5.4 5.4
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	V %Us %Us %Us %Us W	YES yes 48 70 125 10 40 5.4 5.4
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	V %Us %Us %Us %Us W W	YES yes 48 70 125 10 40 5.4 5.4
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	V %Us %Us %Us %Us W W	YES yes 48 70 125 10 40 5.4 5.4
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	V %Us %Us %Us %Us W W	YES yes 48 70 125 10 40 5.4 5.4
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	osing NO	min max min max in-rush holding	V %Us %Us %Us %Us W W W	YES yes 48 70 125 10 40 5.4 5.4 3600
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	osing NO	min max min max in-rush holding min	V %Us %Us %Us %Us W W w cycles/h	YES yes 48 70 125 10 40 5.4 5.4 3600 54
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 Clo	-	min max min max in-rush holding	V %Us %Us %Us %Us W W W	YES yes 48 70 125 10 40 5.4 5.4 3600
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 Clo	osing NO	min max min max in-rush holding min max	V %Us %Us %Us %Us W W w cycles/h	YES yes 48 70 125 10 40 5.4 5.4 3600 54 66
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 Clo	-	min max min max in-rush holding min	V %Us %Us %Us %Us W W w cycles/h	YES yes 48 70 125 10 40 5.4 5.4 3600 54

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CONTROL RELAY WITH DC COIL, 48VDC, 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 auxi	liary 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
<b>Resistance &amp; Protect</b>	ion			
Pollution degree				3
Dimensions				

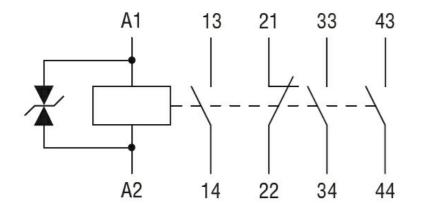


Wiring diagrams

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BF0031D048 CONTROL RELAY WITH DC COIL, 48VDC, 3NO AND 1NC



## Certifications and compliance

Compliance
CSA C22.2 n° 60947-1
CSA C22.2 n° 60947-5-1
IEC/EN 60947-5-1
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