



			Auxiliary
Product designation			contactor
Product type designate	tion		BF00
Contact characteristic			
Number of poles		Nr.	4
Rated insulation volta	ge Ui IEC/EN	V	690
Rated impulse withstand voltage Uimp		kV	6
Operational frequency	· · · · · · · · · · · · · · · · · · ·		
	min	Hz	25
	max	Hz	400
IEC Conventional free	e air thermal current Ith	Α	10
Operational current le			
	AC-1 (=55°C)	Α	0
Short-time allowable	Short-time allowable current for 10s (IEC/EN60947-1)		
Protection fuse			
	gG (IEC)	Α	25
Tightening torque for	terminals		
	min	Nm	1.5
	max	Nm	1.8
	min	lbin	1.1
	max	lbin	1.5
Tightening torque for	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		
	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		4
	min	mm²	1
Dower torreinal preta-	max	mm²	4
Power terminal protection according to IEC/EN 60529			IP20 when wired
Mechanical features			
Operating position			Vertical plan
	normal		Vertical plan
	allowable		±30°



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Fixing			Screw / DIN rail 35mm
Weight		g	494
Conductor section			
	AWG/kcmil conductor section		
	max		10
Auxiliary contact charac	teristics		
Thermal current Ith		Α	10
IEC/EN 60947-5-1 design	gnation		A600 - P600
Operating current AC15			
	230V	Α	3
	400V	Α	1.9
	500V	Α	1.4
Operating current DC12			
	110V	Α	5.7
Operating current DC13			
	24V	Α	5.7
	48V	Α	2.9
	60V	Α	2.3
	110V	Α	1.25
	125V	Α	1.1
	220V	Α	0.55
	600V	Α	0.2
Operations			
Mechanical life		cycles	20000000
Safety related data			
Performance level B100	d according to EN/ISO 13489-1		
	mechanical load	cycles	20000000
Mirror contats according		cycles	20000000 YES
EMC compatibility		cycles	
EMC compatibility DC coil operating	g to IEC/EN 609474-4-1	cycles	YES
EMC compatibility	g to IEC/EN 609474-4-1	cycles	YES
EMC compatibility DC coil operating	g to IEC/EN 609474-4-1		YES yes
EMC compatibility DC coil operating DC rated control voltage DC operating voltage	g to IEC/EN 609474-4-1	V	YES yes 48
EMC compatibility DC coil operating DC rated control voltage DC operating voltage	g to IEC/EN 609474-4-1	V %Us	YES yes 48
EMC compatibility DC coil operating DC rated control voltage DC operating voltage	p to IEC/EN 609474-4-1	V	YES yes 48
EMC compatibility DC coil operating DC rated control voltage DC operating voltage	pick-up min	V %Us %Us	YES yes 48 70 125
EMC compatibility DC coil operating DC rated control voltage DC operating voltage	pick-up min max	V %Us %Us %Us	YES yes 48 70 125
EMC compatibility DC coil operating DC rated control voltage DC operating voltage	pick-up min max 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 drop-out min max on =20°C	V %Us %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 pick-up min max drop-out min max on =20°C	V %Us %Us %Us %Us %Us	YES yes 48 70 125 10 40 5.4
EMC compatibility DC coil operating DC rated control voltage DC operating voltage Average coil consumption	pick-up min max drop-out min max on =20°C	V %Us %Us %Us %Us	YES yes 48 70 125 10 40
EMC compatibility DC coil operating DC rated control voltage DC operating voltage Average coil consumption Max cycles frequency	pick-up pick-up min max drop-out min max on =20°C	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 Average coil consumption Max cycles frequency Mechanical operation	pick-up pick-up min max drop-out min max on =20°C	V %Us %Us %Us %Us %Us	YES yes 48 70 125 10 40 5.4 5.4
EMC compatibility DC coil operating DC rated control voltage DC operating voltage Average coil consumption Max cycles frequency Mechanical operation Operating times	pick-up pick-up min max drop-out min max on =20°C in-rush holding	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 Average coil consumption Max cycles frequency Mechanical operation Operating times Average time for Us cor	pick-up min max drop-out min max on =20°C in-rush holding	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 Average coil consumption Max cycles frequency Mechanical operation Operating times Average time for Us cor	pick-up min max drop-out min max on =20°C in-rush holding	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 Average coil consumption Max cycles frequency Mechanical operation Operating times Average time for Us cor	pick-up min max drop-out min max on =20°C in-rush holding mitrol in DC Closing NO	V %Us %Us %Us W W cycles/h	YES yes 48 70 125 10 40 5.4 5.4 3600
EMC compatibility DC coil operating DC rated control voltage DC operating voltage Average coil consumption Max cycles frequency Mechanical operation Operating times Average time for Us cor	pick-up min max drop-out min max on =20°C in-rush holding ntrol in DC Closing NO min	V %Us %Us %Us W W cycles/h	YES yes 48 70 125 10 40 5.4 5.4 3600
EMC compatibility DC coil operating DC rated control voltage DC operating voltage Average coil consumption Max cycles frequency Mechanical operation Operating times Average time for Us cor	pick-up pick-up min max drop-out min max on =20°C in-rush holding min ntrol in DC Closing NO min max	V %Us %Us %Us W W cycles/h	YES yes 48 70 125 10 40 5.4 5.4 3600
EMC compatibility DC coil operating DC rated control voltage DC operating voltage Average coil consumption Max cycles frequency Mechanical operation Operating times Average time for Us cor	pick-up pick-up min max drop-out min max on =20°C in-rush holding ntrol in DC Closing NO min max Opening NO	V %Us %Us %Us W W cycles/h	YES yes 48 70 125 10 40 5.4 5.4 3600
EMC compatibility DC coil operating DC rated control voltage DC operating voltage Average coil consumption Max cycles frequency Mechanical operation Operating times Average time for Us cor	pick-up pick-up min max drop-out min max on =20°C in-rush holding ntrol in DC Closing NO min max Opening NO min	V %Us %Us %Us W W cycles/h ms ms	YES yes 48 70 125 10 40 5.4 5.4 3600 54 66 14
EMC compatibility DC coil operating DC rated control voltage DC operating voltage Average coil consumption Max cycles frequency Mechanical operation Operating times Average time for Us cor	pick-up pick-up min max drop-out min max on =20°C in-rush holding ntrol in DC Closing NO min max Opening NO	V %Us %Us %Us W W cycles/h	YES yes 48 70 125 10 40 5.4 5.4 3600



Closing NC

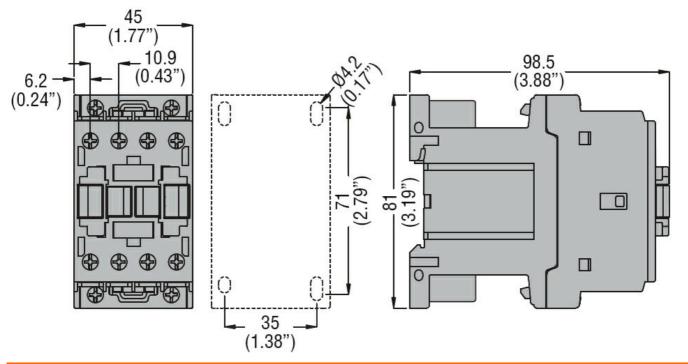
Cioonig i io			
	min	ms	24
	max	ms	30
Opening NC			
	min	ms	47
	max	ms	57

UL technical data

General USE

Auxiliary contacts

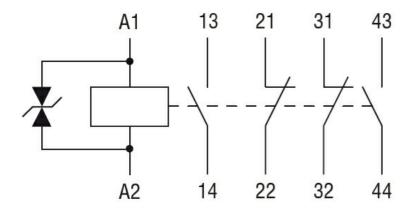
	AC current	Α	10
Contact rating of auxiliary contacts according to UL			A600 - P600
Ambient conditions			
Temperature			
Operating temperature			
	min	°C	-50
	max	°C	70
Storage temperature			_
	min	°C	-60
	max	°C	80
Max altitude		m	3000
Resistance & Protection			
Pollution degree			3
Dimensions			



Wiring diagrams



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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

ETIM 8.0

BF0022D048

EC000196 -Contactor relay