



Product designation				Auxiliary
Product type designation	tion			contactor BF00
Contact characteristic				DI 00
Number of poles			Nr.	4
Rated insulation volta	ge Lli JEC/EN		V	690
Rated impulse withsta	-		kV	6
Operational frequency	· · ·			`
oporational moquono	,	min	Hz	25
		max	Hz	400
IEC Conventional free	e air thermal current Ith	тах	A	10
Operational current le			7	
oporational outront to		AC-1 (≤55°C)	А	0
Protection fuse		/10 / (200 0)	71	•
		gG (IEC)	А	25
Tightening torque for	terminals	90 (120)	7.	20
righterning terque for		min	Nm	1.5
		max	Nm	1.8
		min	Ibin	1.1
		max	Ibin	1.5
Tightening torque for	coil terminal	max	10111	
nginterning terque for		min	Nm	0.8
		max	Nm	1
		min	Ibin	0.8
		max	Ibin	0.74
Max number of wires	simultaneously connectable	max	Nr.	2
Conductor section				
	AWG/Kcmil			
		max		10
	Flexible w/o lug conductor section	max		
		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 protect	ction according to IEC/EN 60529			properly wired
Mechanical features				
Operating position				
		normal		Vertical plan
		allowable		±30°

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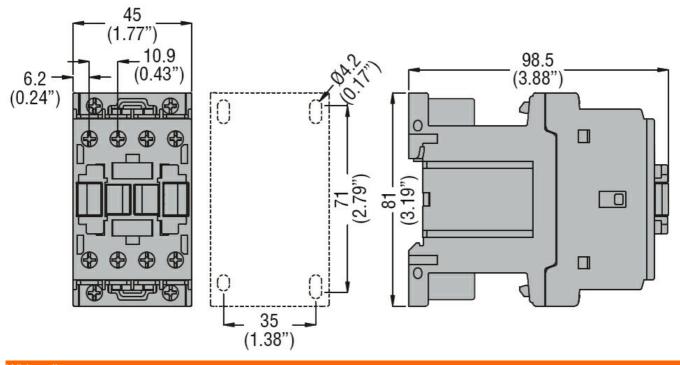
AWG/kcmil conductor section max 10 uxiliary contact characteristics A 10 hermal current lth A 10 2C/EN 60947-5-1 designation A600 - P600 >perating current AC15 230V A 3 4000V A 1.9 500V A 1.4 >perating current DC12 110V A 5.7 48V A 2.9 60V A 2.3 110V A 5.7 >perating current DC13 24V A 5.7 48V A 2.9 60V A 1.4 1.25 125V A 1.1 220V A 0.55 600V A 0.2 Operations cycles 20000000 20000000 fatety related data cycles 20000000 20000000 firtor contats according to EN/ISO 13489-1 mechanical load cycles 20000000 firtor contats according to EN/ISO 13489-1 mechanical load cycles 200000000 <th>Fixing</th> <th></th> <th></th> <th></th> <th></th> <th>Screw / DIN ra 35mm</th>	Fixing					Screw / DIN ra 35mm
AWG/kcmil conductor section	Weight				g	494
max 10 hermal current lth A 10 EC/EN 60947-5-1 designation A 600 - P600 Ad00V A 1,4 Operating current AC15 230V A 3 400V A 1,4 Operating current DC12 110V A 5,7 Operating current DC13 24V A 1,1 2200V A 0,2 5 Operating current DC13 cycle A 0,2 0000000 Interviewed data yes 20000000 20000000 Interviewed data yes 20000000 20000000 Interviewed data <	Conductor section					
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EC/EN 60947-5-1 designation A600 - P600 perating current AC15 230V A 3 400V A 1.9 500V A 1.4 Deterating current DC12 110V A 5.7 24V A 5.7 48V A 2.9 60V A 2.3 110V A 1.25 125V A 1.1 220V A 0.55 600V A 0.2 2000000 60V A 0.2 200000 60V A 0.2 200000 60V A 0.2 200000 60V A 0.2 200000 60V A 0.2 200000 60V A 0.2 70V		acteristics				
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400V Å 1.9 500V Å 1.4 500V Å 5.7 3000 Å 5.7 3000 Å 2.9 60V Å 2.3 110V Å 1.25 125V Å 1.1 220V Å 0.55 600V Å 0.23 110V Å 1.25 125V Å 1.1 220V Å 0.55 600V Å 0.23 Performance level B100 according to EN/ISO 13489-1 vertes 20000000 Ifter ontats according to EN/ISO 13489-1 vertes 20000000 Ifter ontats according to EN/ISO 13489-1 vertes 20000000 Ifter ontats according to EN/ISO 13489-1 vertes vertes Ifter ontats according to EN/ISO 13489-1 vertes 20000000 Ifter ontats according to EN/ISO 13489-1 vertes vertes Idop-out min %US 70 Ifter on	Operating current AC	15				
500V A 1.4 Operating current DC12 110V A 5.7 24V A 5.7 48V A 2.9 60V A 2.3 110V A 1.25 125V A 1.1 220V A 0.55 600V A 0.25 2000000 E 2000000 States related data				230V	А	3
apperating current DC12 110V A 5.7 All V A 5.7 All V A 2.9 60V A 2.3 110V A 1.25 125V A 1.1 220V A 0.55 600V A 0.2 2ferations Cycles 2000000 dicty related data cycles 2000000 diror contats according to EN/ISO 13489-1 mechanical load cycles 20000000 Mirror contats according to IEC/EN 609474-4-1 YES 20000000 20000000 Mirror contats according to IEC/EN 609474-4-1 YES 20000000 20000000 Cold operating yes 20000000 20000000 20000000 Cold operating vers YES 20000000 20000000 Cold operating voltage vers YES 2000000 2000000 verage coil consumption s20°C in-rush wills 10 2000000 2000000 verage time for Us control i				400V	А	1.9
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Deparating current DC13 24V A 5.7 48V A 2.9 60V A 2.3 110V A 1.25 125V A 0.55 600V A 0.2 Operations 600V A 0.2 Mechanical life cycles 2000000 iafety related data cycles 20000000 Itror contats according to EN/ISO 13489-1 mechanical load cycles 2000000 MC compatibility yes yes 20000000 2000000 Color operating object and according to EN/ISO 13489-1 yes YES 20000000 MC compatibility yes yes 20000000 20000000 Color operating voltage v 48 2000000 40 VC operating voltage v 48 20 40 verage coll consumption ≤20°C in-rush W 5.4 Max cycles frequency in-rush W 5.4 Max cycles frequency in DC in Closing NO 3600 Verage time for Us control	Operating current DC	12				
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220V A 0.55 600V A 0.2 Performance level B10d according to EN/ISO 13489-1 cycles 2000000 itror contats according to IEC/EN 609474-4-1 YES 200000 Itro				110V	А	1.25
600V A 0.2 >perations vccles 2000000 afety related data vccles 2000000 iafety related data vccles 2000000 firror contats according to IEC/EN 609474-4-1 YES 2000000 iff or contats according to IEC/EN 609474-4-1 YES yes C coll operating V 48 C coll operating voltage V 48 C operating voltage V 48 VC operating voltage V 48 VC operating voltage vcc add control voltage V 48 VC operating voltage in-rush %Us 10 max %Us 10 max %Us 40 verage coil consumption ≤20°C in-rush W 5.4 40 Atx cycles frequency vcs/es/h 3600 90 90 verage time for Us control in DC vcs/es/h 3600 90 in DC Closing NO min ms 54 66 66				125V	А	1.1
Operations cycles 2000000 Safety related data cycles 2000000 Verformance level B10d according to EN/ISO 13489-1 mechanical load cycles 20000000 Mirror contats according to IEC/EN 609474-4-1 YES 2000000 IMC compatibility yes V 48 VC coil operating V 48 2000000 Coperating voltage V 48 200000 Coperating voltage V 48 2000000 Coperating voltage V 48 200000 Coperating voltage V 48 200000 Coperating voltage Vistics 70 200000 pick-up min %US 70 200000 drop-out min %US 10 200000 werage coil consumption ≤20°C in-rush holding W 5.4 Atax cycles frequency Vist Additiong 5.4 3600 opperating times Vist Additiong Vist Additiong 5.4 werage time for Us cont				220V	А	0.55
Mechanical life cycles 2000000 afety related data				600V	А	0.2
Alefty related data Performance level B10d according to EN/ISO 13489-1 mechanical load cycles 20000000 Itiror contats according to IEC/EN 609474-4-1 INC compatibility IC coll operating IC rated control voltage V 48 IC operating voltage pick-up min %Us 70 max %Us 125 drop-out min %Us 10 max %Us 40 verage coil consumption ≤20°C in-rush W 5.4 holding W 5.4 Aax cycles frequency Mechanical load cycles/h 3600 Deprating times verage time for Us control in DC Closing NO min ms 54 max ms 66 Opening NO min ms 14	Operations					
Parfety related data Performance level B10d according to EN/ISO 13489-1 mechanical load cycles 20000000 Were contats according to IEC/EN 609474-4-1 WC compatibility C coil operating C rated control voltage V 48 C operating voltage pick-up min %Us 70 max %Us 125 drop-out min %Us 10 max %Us 40 verage coil consumption ≤20°C in-rush W 5.4 holding W 5.4 Aax cycles frequency Mechanical load cycles // Second Noter and Second Max cycles frequency Mechanical load cycles // Second Mechanical load cycles // Second Noter and Second Mechanical load cycles // Second Noter and Second Mechanical load cycles // Second Mechanical load cycles // Second Mechanical load cycles // Second Mechanical load cycles // Second Noter and Second Mechanical load cycles // Seco	lechanical life				cycles	20000000
mechanical load cycles 20000000 Mirror contats according to IEC/EN 609474-4-1 YES yes Circle compatibility yes Yes OC coil operating V 48 DC operating voltage V 40 werage coil consumption ≤20°C min %US 10 werage coil consumption ≤20°C in-rush holding W 5.4 Atax cycles frequency V 5.4 40 werage time for Us control in DC cycles/h 3600 Operating times V 5.4 40 werage time for Us control in DC min ms 54 Opening NO min ms	Safety related data					
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tirror contats according to IEC/EN 609474-4-1 YES MC compatibility yes CC coil operating CC rated control voltage pick-up 		C C		mechanical load	cycles	20000000
IMC compatibility yes OC coil operating V 48 DC operating voltage pick-up min %Us 70 min %Us 70 max %Us 125 drop-out min %Us 10 max %Us 40 vverage coil consumption ≤20°C in-rush W 5.4 40 vverage toil consumption ≤20°C in-rush W 5.4 Atax cycles frequency in-rush W 5.4 Atax cycles frequency cycles/h 3600 Operating times verage time for Us control in DC min ms 54 Opening NO min ms 54 max ms 66	Mirror contats accordi	ng to IEC/EN 609474-4-1				YES
DC coil operating DC rated control voltage DC operating voltage pick-up						ves
DC rated control voltage PC operating voltage pick-up pick-up min %Us 70 max %Us 125 drop-out min %Us 10 max %Us 40 vverage coil consumption ≤20°C in-rush W 5.4 holding M 5.4 holding H 10 holding H						<i>,</i>
DC operating voltage pick-up pick-up pick-up pick-up min %Us 70 max %Us 125 drop-out min %Us 10 max %Us 40 verage coil consumption ≤20°C in-rush W 5.4 holding W 5.4 holding W 5.4 Nechanical operation Closing NO Max cycles frequency Verage time for Us control in DC Closing NO min ms 54 max ms 66 Opening NO min ms 14		ae			V	48
pick-upmin%Us70		5 -				
min%Us70 maxdrop-outmin%Us125drop-outmin%Us10 maxwerage coil consumption ≤20°Cin-rush koverage coil consumption ≤20°CW5.4 boldingMax cycles frequencyin-rush koverage time for Us control in DCW5.4 bolding5.4 boldingOperating timescycles/h3600Streage time for Us control in DCminms54 maxMaxms54 max54 maxMaxminms54 max14		pick-up				
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drop-out min %Us 10 max %Us 40 werage coil consumption ≤20°C in-rush W 5.4 holding W 5.4 holding W 5.4 Max cycles frequency 5.4 Mechanical operation cycles/h 3600 Operating times werage time for Us control in DC Closing NO min ms 54 Max ms 66 Opening NO min ms 14						
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werage coil consumption ≤20°C in-rush W 5.4 holding W 5.4 Max cycles frequency Kechanical operation Mechanical operation cycles/h 3600 Operating times Kerage time for Us control in DC Closing NO Min ms Max ms Mechanical operation Second cycles/h Operating times Kerage time for Us control in DC Min Max ms Max Max Max Max Mechanical operation Max Max						
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in DC Closing NO min ms 54 max ms 66 Opening NO min ms 14	lechanical operation				W	
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min ms 54 max ms 66 Opening NO min ms 14	<i>Aax cycles frequency</i> Aechanical operation Operating times Average time for Us c	ontrol			W	
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Opening NO min ms 14	Aechanical operation Dperating times	ontrol	Closing NO	holding	W cycles/h	3600
min ms 14	Nechanical operation Operating times	ontrol	Closing NO	holding	W cycles/h ms	3600 54
	Nechanical operation Operating times	ontrol	-	holding	W cycles/h ms	3600 54
max ms 17	Aechanical operation Dperating times	ontrol	-	holding min max	W cycles/h ms ms	3600 54 66
	Aechanical operation Operating times	ontrol	-	holding min max min	W cycles/h ms ms	3600 54 66 14

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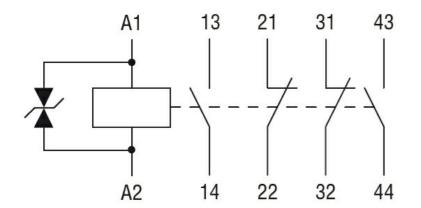
CONTROL RELAY WITH DC COIL, 48VDC, 2NO AND 2NC

	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	xiliary 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 & Protect	ction			
Pollution degree				3
Dimensions				



Wiring diagrams





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		
	000	
	cULus	
	EAC	
ETIM classification		
ETIM 8.0		EC000196 - Contactor relay