



Product designation Product type designation			Power contactor BF25
Contact characteristics			
Number of poles		Nr.	3
Rated insulation voltage Ui IEC/EN		V	690
Rated impulse withstand voltage Uimp		kV	6
Operational frequency			
	min	Hz	25
	max	Hz	400
IEC Conventional free air thermal current Ith		А	32
Operational current le			
	AC-1 (≤40°C)	А	32
	AC-1 (≤55°C)	А	26
	AC-1 (≤70°C)	А	23
	AC-3 (≤440V ≤55°C)	А	25
	AC-4 (400V)	Α	10
Rated operational power AC-3 (T≤55°C)			
	230V	kW	7
	400V	kW	12.5
	415V	kW	13.4
	440V	kW	13.4
	500V	kW	15
	690V	kW	11
Rated operational power AC-1 (T≤40°C)			
	230V	kW	12
	400V	kW	21
	500V	kW	26
	690V	kW	36
IEC max current le in DC1 with $L/R \le 1$ ms with 1 poles in series			
	≤24V	А	20
	48V	А	18
	75V	А	18
	110V	А	6
	220V	A	-
IEC max current le in DC1 with $L/R \le 1$ ms with 2 poles in series			
	≤24V	А	23
	48V	А	23
	75V	А	23
	110V	А	16
	220V	А	1
IEC max current le in DC1 with $L/R \le 1$ ms with 3 poles in series			
	≤24V	А	23
	48V	А	23
	75V	А	23
	110V	А	18



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	220V	Α	12	
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series				
	≤24V	А	_	
	48V	A	_	
	40 V 75 V	A	_	
			-	
	110V	A	_	
	220V	A	_	
IEC max current le in DC3-DC5 with $L/R \le 15$ ms with 1 poles in series				
	≤24V	Α	15	
	48V	Α	13	
	75V	А	13	
	110V	А	2	
	220V	А	_	
IEC max current le in DC3-DC5 with $L/R \le 15$ ms with 2 poles in series				
	≤24V	^	18	
		A		
	48V	A	18	
	75V	A	16	
	110V	А	10	
	220V	Α	2	
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series				
	≤24V	А	22	
	48V	А	22	
	75V	A	18	
	110V	A	15	
	220V	A	8	
IEC max current le in DC3-DC5 with $L/R \le 15$ ms with 4 poles in series		_		
	≤24V	Α	-	
	48V	А	-	
	75V	Α	-	
	110V	Α	_	
	220V	А	_	
Short-time allowable current for 10s (IEC/EN60947-1)		А	200	
Protection fuse				
		^	50	
	gG (IEC)	A	50 05	
	aM (IEC)	A	25	
Making capacity (RMS value)		А	250	
Breaking capacity at voltage				
	440V	А	200	
	500V	А	184	
	690V	А	102	
Resistance per pole (average value)		mΩ	2.5	
Power dissipation per pole (average value)				
i onei dissipation per pole (average value)	lth	W	2.6	
	AC-3	W	1.6	
Tightening torque for terminals				
	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	



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Maxanatan		max	lbin	0.74
	simultaneously connectable		Nr.	2
Conductor section	AWG/Kcmil			
	AWG/KCIIII	may		10
	Flexible w/o lug conductor section	max		10
		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 prote	ction according to IEC/EN 60529			IP20 when
Power terminal prote	clion according to rec/en 80329			properly wired
Mechanical features				
Operating position				
		normal		Vertical plan
		allowable		±30°
Fixing				Screw / DIN ra
				35mm
Weight			g	362
Conductor section				
	AWG/kcmil conductor section			40
Auxiliary contact char	restoristics	max		10
Thermal current Ith			А	10
IEC/EN 60947-5-1 de	esignation		~	A600 - P600
Operating current AC				A000 1 000
		230V	А	3
		400V	A	1.9
		500V	A	1.4
Operating current DC	12			
		110V	А	5.7
Operating current DC	13			
,		24V	А	5.7
		48V	A	2.9
				2.3
		60V	A	2.5
		60V 110V	A A	1.25
		110V	А	1.25
		110V 125V	A A	1.25 1.1
		110V 125V 220V	A A A	1.25 1.1 0.55 0.2
Mechanical life		110V 125V 220V	A A A	1.25 1.1 0.55 0.2 20000000
Mechanical life Electrical life		110V 125V 220V	A A A A	1.25 1.1 0.55 0.2
Mechanical life Electrical life Safety related data		110V 125V 220V	A A A A cycles	1.25 1.1 0.55 0.2 20000000
Mechanical life Electrical life Safety related data	10d according to EN/ISO 13489-1	110V 125V 220V	A A A A cycles	1.25 1.1 0.55 0.2 20000000
Mechanical life Electrical life Safety related data	-	110V 125V 220V 600V	A A A cycles cycles	1.25 1.1 0.55 0.2 20000000 1200000 1200000
	me	110V 125V 220V 600V	A A A cycles cycles	1.25 1.1 0.55 0.2 20000000 1200000
Mechanical life Electrical life Safety related data Performance level B <sup>2</sup>	-	110V 125V 220V 600V	A A A cycles cycles	1.25 1.1 0.55 0.2 20000000 1200000 1200000

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Rated AC voltage at 5	0/60Hz		V	48
AC operating voltage			-	
	of 50/60Hz coil powered at 50Hz			
	pick-up			
		min	%Us	80
		max	%Us	110
	drop-out		0/11-	
		min	%Us %Us	20 55
	of 50/60Hz coil powered at 60Hz	max	%US	55
	pick-up			
	plot up	min	%Us	85
		max	%Us	110
	drop-out			
		min	%Us	20
		max	%Us	55
AC average coil consu	•			
	of 50/60Hz coil powered at 50Hz			
		in-rush	VA	75
		holding	VA	9
	of 50/60Hz coil powered at 60Hz	in-rush	VA	70
		holding	VA VA	70 6.5
	of 60Hz coil powered at 60Hz	libiding	٧٨	0.5
		in-rush	VA	75
		holding	VA	9
Dissipation at holding	≤20°C 50Hz	-	W	2.5
Dissipation at holding Max cycles frequency	≤20°C 50Hz		W	2.5
Max cycles frequency Mechanical operation	≤20°C 50Hz		W cycles/h	
Max cycles frequency Mechanical operation Operating times				
Max cycles frequency Mechanical operation	ontrol			
Max cycles frequency Mechanical operation Operating times	ontrol in AC			
Max cycles frequency Mechanical operation Operating times	ontrol	min	cycles/h	3600
Max cycles frequency Mechanical operation Operating times	ontrol in AC	min max	cycles/h ms	3600 8
Max cycles frequency Mechanical operation Operating times	ontrol in AC Closing NO	min max	cycles/h	3600
Max cycles frequency Mechanical operation Operating times	ontrol in AC		cycles/h ms	3600 8
Max cycles frequency Mechanical operation Operating times	ontrol in AC Closing NO	max	cycles/h ms ms	3600 8 24
Max cycles frequency Mechanical operation Operating times	ontrol in AC Closing NO	max	cycles/h ms ms ms	3600 8 24 10
Max cycles frequency Mechanical operation Operating times	ontrol in AC Closing NO Opening NO	max	cycles/h ms ms ms	3600 8 24 10 20 14
Max cycles frequency Mechanical operation Operating times	ontrol in AC Closing NO Opening NO Closing NC	max min max	cycles/h ms ms ms ms	3600 8 24 10 20
Max cycles frequency Mechanical operation Operating times	ontrol in AC Closing NO Opening NO	max min max min max	cycles/h ms ms ms ms ms ms	3600 8 24 10 20 14 28
Max cycles frequency Mechanical operation Operating times	ontrol in AC Closing NO Opening NO Closing NC	max min max min max min	cycles/h ms ms ms ms ms ms	3600 8 24 10 20 14 28 7
Max cycles frequency Mechanical operation Operating times Average time for Us co	ontrol in AC Closing NO Opening NO Closing NC	max min max min max	cycles/h ms ms ms ms ms ms	3600 8 24 10 20 14 28
Max cycles frequency Mechanical operation Operating times Average time for Us co UL technical data	ontrol in AC Closing NO Opening NO Closing NC Opening NC	max min max min max min	cycles/h ms ms ms ms ms ms	3600 8 24 10 20 14 28 7
Max cycles frequency Mechanical operation Operating times Average time for Us co UL technical data	ontrol in AC Closing NO Opening NO Closing NC	max min max min max min max	cycles/h ms ms ms ms ms ms ms	3600 8 24 10 20 14 28 7 18
Max cycles frequency Mechanical operation Operating times Average time for Us co UL technical data	ontrol in AC Closing NO Opening NO Closing NC Opening NC	max min max min max min max at 480V	cycles/h ms ms ms ms ms ms ms as	3600 8 24 10 20 14 28 7 18 21
Max cycles frequency Mechanical operation Operating times Average time for Us co UL technical data	ontrol in AC Closing NO Opening NO Closing NC Opening NC	max min max min max min max	cycles/h ms ms ms ms ms ms ms	3600 8 24 10 20 14 28 7 18
Max cycles frequency Mechanical operation Operating times Average time for Us co UL technical data Full-load current (FLA)	ontrol in AC Closing NO Opening NO Closing NC Opening NC	max min max min max min max at 480V	cycles/h ms ms ms ms ms ms ms as	3600 8 24 10 20 14 28 7 18 21
Max cycles frequency Mechanical operation Operating times Average time for Us co UL technical data Full-load current (FLA)	ontrol in AC Closing NO Opening NO Closing NC Opening NC	max min max min max min max at 480V	cycles/h ms ms ms ms ms ms ms as	3600 8 24 10 20 14 28 7 18 21
Max cycles frequency Mechanical operation Operating times Average time for Us co UL technical data Full-load current (FLA)	ontrol in AC Closing NO Opening NO Closing NC Opening NC	max min max min max min max at 480V at 600V	cycles/h ms ms ms ms ms ms as ms	3600 8 24 10 20 14 28 7 18 21 17
Max cycles frequency Mechanical operation Operating times Average time for Us co UL technical data Full-load current (FLA)	ontrol in AC Closing NO Opening NO Closing NC Opening NC	max min max min max min max at 480V at 600V	cycles/h ms ms ms ms ms ms as ms hP	3600 8 24 10 20 14 28 7 18 21 17 2

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The characteristics described in this document are subject to updates or modifications at any time. The descriptions, technical and functional information, illustrations and instructions in this brochure are purely illustrative, and are consequently not contractually binding



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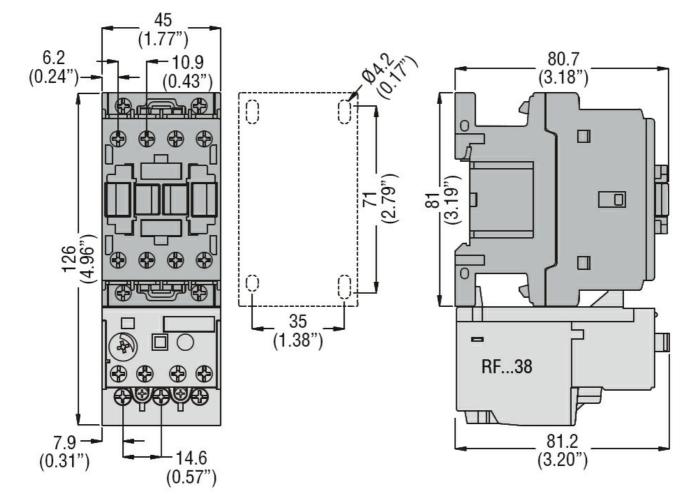
		220/230V	HP	7.5
		460/480V	HP	15
		575/600V	HP	15
General USE				
	Contactor			
		AC current	А	32
	Auxiliary contacts			
		AC voltage	V	600
		AC current	А	10
		DC voltage	V	250
		DC current	А	1
Short-circuit protect	ction fuse, 600V			
	High fault			
		Short circuit current	kA	100
		Fuse rating	А	60
		Fuse class		J
	Standard fault			
		Short circuit current	kA	5
		Fuse rating	А	100
Contact rating of a	uxiliary 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 & Prote	ection			
Pollution degree				3
<b>U</b> -				

Dimensions

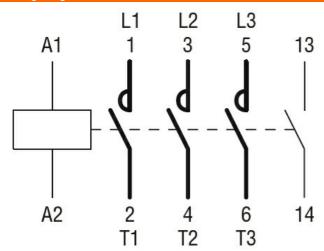
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Wiring diagrams



## Certifications and compliance

Compliance	
	CSA C22.2 n° 60947-1
	CSA C22.2 n° 60947-4-1
	IEC/EN/BS 60947-1
	IEC/EN/BS 60947-4-1
	UL 60947-1
	UL 60947-4-1
Certificates	
	CCC
The state	and side density distributions to subject to us define any different constraint. The density is to be induced



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CULus EAC ETIM classification

ETIM 8.0

EC000066 -Power contactor, AC switching