



Product designation Product type designation			Power contactor BF25
Contact characteristics			2120
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)	А	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	A	20
	48V	A	18
	75V	A	18
	110V	A	6
	220V	A	-
IEC max current le in DC1 with $L/R \le 1$ ms with 2 poles in series			
	≤24V	A	23
	48V	A	23
	75V	A	23
	110V	A	16
IFO more summent to in DO1 with 1/D < 4	220V	A	1
IEC max current le in DC1 with $L/R \le 1$ ms with 3 poles in series	-0.04		00
	≤24V	A	23
	48V	A	23
	75V	A	23
	110V	А	18

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220V

А

12

	2200	A	12	
IEC max current le in DC1 with $L/R \le 1$ ms with 4 poles in series				
	≤24V	А	_	
	48V	А	_	
	75V	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	۸	18	
		A		
	48V	A	18	
	75V	A	16	
	110V	А	10	
	220V	Α	2	
IEC max current le in DC3-DC5 with $L/R \le 15$ ms with 3 poles in series				
•	≤24V	А	22	
	48V	A	22	
	75V	A	18	
	110V	A		
			15	
	220V	А	8	
IEC max current le in DC3-DC5 with $L/R \le 15$ ms with 4 poles in series				
	≤24V	Α	_	
	48V	А	_	
	75V	А	_	
	110V	А	_	
	220V	A	_	
Short-time allowable current for 10s (IEC/EN60947-1)	2201	A	200	
		~	200	<u> </u>
Protection fuse			- 0	
	gG (IEC)	А	50	
	aM (IEC)	A	25	
Making capacity (RMS value)		Α	250	
Breaking capacity at voltage				
	440V	А	200	
	500V	A	184	
	690V	A	102	
Resistance per pole (average value)	0007	mΩ	2.5	
		11152	2.0	
Power dissipation per pole (average value)	- <i></i>		• •	
	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	
Tightoning torque for coil terminal	Παλ		1.0	
Tightening torque for coil terminal		N I	0.0	
	min	Nm	0.8	
	max	Nm	1	
	min	Ihin	<u> </u>	

Ibin

min

0.8



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lbin 0.74 max Max number of wires simultaneously connectable Nr. 2 Conductor section AWG/Kcmil max 10 Flexible w/o lug conductor section min mm² 1 mm² 6 max Flexible c/w lug conductor section 1 min mm² max mm² 4 Flexible with insulated spade lug conductor section 1 mm² min mm² 4 max IP20 when Power terminal protection according to IEC/EN 60529 properly wired Mechanical features Operating position Vertical plan normal ±30° allowable Screw / DIN rail Fixing 35mm Weight 358 g Auxiliary contact characteristics Thermal current Ith 10 A IEC/EN 60947-5-1 designation A600 - P600 **Operating current AC15** 230V А 3 400V А 1.9 500V А 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 1.1 А 0.55 220V А 600V А 0.2 Operations Mechanical life 20000000 cycles Electrical life 1200000 cycles Safety related data Performance level B10d according to EN/ISO 13489-1 rated load cycles 1200000 2000000 mechanical load cycles EMC compatibility yes AC coil operating Rated AC voltage at 50/60Hz V 230 AC operating voltage of 50/60Hz coil powered at 50Hz

pick-up

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		min	%Us	80
		max	%Us	110
	dran aut	max	/003	110
	drop-out			
		min	%Us	20
		max	%Us	55
	of 50/60Hz coil powered at 60Hz			
	pick-up			
	pick-up	min	0/110	85
		min	%Us	
		max	%Us	110
	drop-out			
		min	%Us	20
		max	%Us	55
AC average coil cons	sumption at 20°C		,	
AC average con cons				
	of 50/60Hz coil powered at 50Hz			
		in-rush	VA	75
		holding	VA	9
	of 50/60Hz coil powered at 60Hz	<u>9</u>		
		in-rush	VA	70
		holding	VA	6.5
	of 60Hz coil powered at 60Hz			
		in-rush	VA	75
		holding	VA	9
Dissipation at holding	u <20°C 50Hz	noiding	W	2.5
			VV	2.5
Max cycles frequency				
Mechanical operation			cycles/h	3600
Operating times				
Average time for Us of	control			
	in AC			
	Closing NO			
		_		_
		min	ms	8
		min max	ms ms	8 24
	Opening NO	max	ms	24
		max	ms ms	24 10
	Opening NO	max	ms	24
		max min max	ms ms	24 10 20
	Opening NO	max	ms ms	24 10
	Opening NO	max min max	ms ms ms	24 10 20
	Opening NO Closing NC	max min max min	ms ms ms ms	24 10 20 14
	Opening NO	max min max min max	ms ms ms ms ms	24 10 20 14 28
	Opening NO Closing NC	max min max min max min	ms ms ms ms ms	24 10 20 14 28 7
	Opening NO Closing NC	max min max min max	ms ms ms ms ms	24 10 20 14 28
UL technical data	Opening NO Closing NC	max min max min max min	ms ms ms ms ms	24 10 20 14 28 7
	Opening NO Closing NC Opening NC	max min max min max min	ms ms ms ms ms	24 10 20 14 28 7
Rated operational vol	Opening NO Closing NC Opening NC	max min max min max min	ms ms ms ms ms ms ms	24 10 20 14 28 7 18
Rated operational vol	Opening NO Closing NC Opening NC	max min max min max min max	ms ms ms ms ms ms V	24 10 20 14 28 7 18 600
Rated operational vol	Opening NO Closing NC Opening NC	max min max min max min max at 480V	ms ms ms ms ms ms V	24 10 20 14 28 7 18 600 21
Rated operational vol Full-load current (FLA	Opening NO Closing NC Opening NC	max min max min max min max	ms ms ms ms ms ms V	24 10 20 14 28 7 18 600
Rated operational vol	Opening NO Closing NC Opening NC	max min max min max min max at 480V	ms ms ms ms ms ms V	24 10 20 14 28 7 18 600 21
Rated operational vol Full-load current (FLA	Opening NO Closing NC Opening NC tage AC (UL) A) for three-phase AC motor	max min max min max min max at 480V	ms ms ms ms ms ms V	24 10 20 14 28 7 18 600 21
Rated operational vol Full-load current (FLA	Opening NO Closing NC Opening NC	max min max min max min max at 480V at 600V	ms ms ms ms ms V A A	24 10 20 14 28 7 18 600 21 17
Rated operational vol Full-load current (FLA	Opening NO Closing NC Opening NC tage AC (UL) A) for three-phase AC motor	max min max min max min max at 480V at 600V	ms ms ms ms ms V A A HP	24 10 20 14 28 7 18 600 21 17 2
Rated operational vol Full-load current (FLA	Opening NO Closing NC Opening NC tage AC (UL) A) for three-phase AC motor	max min max min max min max at 480V at 600V	ms ms ms ms ms V A A	24 10 20 14 28 7 18 600 21 17
Rated operational vol Full-load current (FLA	Opening NO Closing NC Opening NC tage AC (UL) A) for three-phase AC motor	max min max min max min max at 480V at 600V 110/120V 230V	ms ms ms ms ms V A A A HP HP	24 10 20 14 28 7 18 600 21 17 2 3
Rated operational vol Full-load current (FLA	Opening NO Closing NC Opening NC tage AC (UL) A) for three-phase AC motor	max min max min max min max at 480V at 600V	ms ms ms ms ms V A A HP	24 10 20 14 28 7 18 600 21 17 2
Rated operational vol Full-load current (FLA	Opening NO Closing NC Opening NC tage AC (UL) A) for three-phase AC motor	max min max min max min max at 480V at 600V 110/120V 230V	ms ms ms ms ms V A A A HP HP	24 10 20 14 28 7 18 600 21 17 2 3
Rated operational vol Full-load current (FLA	Opening NO Closing NC Opening NC tage AC (UL) A) for three-phase AC motor	max min max min max min max at 480V at 600V 110/120V 230V 220/208V 220/208V 220/208V	ms ms ms ms ms ms V A A HP HP HP	24 10 20 14 28 7 18 600 21 17 2 3 7.5 7.5
Rated operational vol Full-load current (FLA	Opening NO Closing NC Opening NC tage AC (UL) A) for three-phase AC motor	max min max min max min max min max at 480V at 600V 110/120V 230V 220/208V 220/208V 220/230V 460/480V	ms ms ms ms ms v V A A A HP HP HP HP	24 10 20 14 28 7 18 600 21 17 2 3 7.5 7.5 15
Rated operational vol Full-load current (FLA	Opening NO Closing NC Opening NC tage AC (UL) A) for three-phase AC motor	max min max min max min max at 480V at 600V 110/120V 230V 220/208V 220/208V 220/208V	ms ms ms ms ms ms V A A HP HP HP	24 10 20 14 28 7 18 600 21 17 2 3 7.5 7.5

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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



General USE Contactor AC current 32 А Auxiliary contacts AC voltage V 600 AC current А 10 DC voltage 250 V DC current 1 А Short-circuit protection fuse, 600V High fault Short circuit current kΑ 100 Fuse rating 60 А Fuse class J Standard fault Short circuit current kΑ 5 Fuse rating А 100 A600 - P600 Contact rating of auxiliary contacts according to UL Ambient conditions Temperature Operating temperature °C -50 min °C 70 max Storage temperature °C -60 min °C max 80

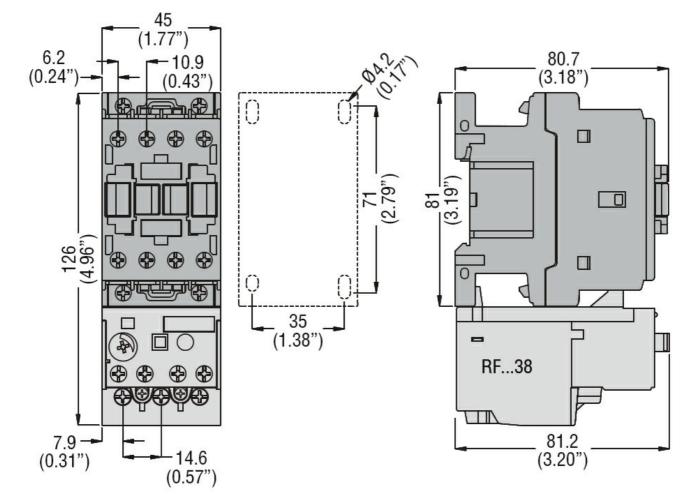
	 -	
Max altitude	m	3000
Resistance & Protection		
Pollution degree		3
Dimensions		

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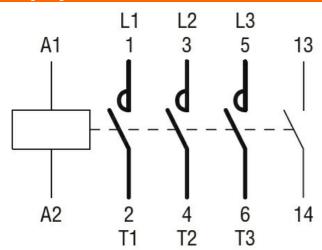
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Wiring diagrams



Certifications and compliance

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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 eb	aracteristics described in this document are subject to updates or modifications at any time. The descriptions, technical and



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	cULus
	EAC
IM classification	

ETIM 8.0

EC000066 -Power contactor, AC switching