



Product designation			Power contactor
Product type designation			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)	A	26
	AC-1 (≤70°C)	A	23
	AC-3 (≤440V ≤55°C)	A	25
	AC-4 (400V)	A	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	0001		
	≤24V	А	20
	48V	A	18
	48V 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	2201		
	≤24V	А	23
	48V	A	23
	48V 75V	A	23
	110V	A	16
	220V	A	1
IEC max current le in DC1 with $L/R \le 1$ ms with 3 poles in series	220 V	~	1
	≤24V	۸	23
	≤24∨ 48V	A	
		A	23
	75V 110V	A	23
	110V	А	18



BF2501D220 THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 25A, DC COIL, 220VDC, 1NC AUXILIARY CONTACT

LE CONTACTOR, IEC OPERATING CURRENT	TIE (AC3	3) = 25A	A, DC COI	L, 220VDC,
		1NC A	UXILIARY	CONTACT
	2201/	^	10	

	220V	А	12	
IEC max current le in DC1 with $L/R \le 1$ ms with 4 poles in series				
	≤24V	А	_	
	48V	А	_	
	75V	А	_	
	110V	А	_	
	220V	А	_	
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series				
	≤24V	А	15	
	48V	А	13	
	75V	А	13	
	110V	А	2	
	220V	Α	_	
IEC max current le in DC3-DC5 with L/R \leq 15ms with 2 poles in series				
	≤24V	А	18	
	48V	А	18	
	75V	А	16	
	110V	А	10	
	220V	Α	2	
IEC max current le in DC3-DC5 with L/R \leq 15ms with 3 poles in series				
	≤24V	А	22	
	48V	А	22	
	75V	А	18	
	110V	А	15	
	220V	Α	8	
IEC max current le in DC3-DC5 with L/R \leq 15ms with 4 poles in series				
	≤24V	А	_	
	48V	А	_	
	75V	А	_	
	110V	А	—	
	220V	A	_	
Short-time allowable current for 10s (IEC/EN60947-1)		Α	200	
Protection fuse				
	gG (IEC)	А	50	
	aM (IEC)	Α	25	
Making capacity (RMS value)		Α	250	
Breaking capacity at voltage				
	440V	А	200	
	500V	А	184	
	690V	A	102	
Resistance per pole (average value)		mΩ	2.5	
Power 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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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 mm² 1 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 500 g Conductor section AWG/kcmil conductor section 10 max Auxiliary contact characteristics Thermal current Ith А 10 IEC/EN 60947-5-1 designation A600 - P600 Operating current AC15 230V А 3 400V 1.9 А 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 А 1.1 220V А 0.55 600V 0.2 А Operations Mechanical life 20000000 cycles Electrical life 1200000 cycles Safety related data Performance level B10d according to EN/ISO 13489-1 1200000 rated load cycles mechanical load 20000000 cycles Mirror contats according to IEC/EN 609474-4-1 yes EMC compatibility yes DC coil operating



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					000
DC rated control voltage	ge			V	220
DC operating voltage	niek un				
	pick-up		min	%Us	70
			max	%Us	125
	drop-out		тах	/000	120
			min	%Us	10
			max	%Us	40
Average coil consump	tion ≤20°C				
			in-rush	W	5.4
			holding	W	5.4
Max cycles frequency					
Mechanical operation				cycles/h	3600
Operating times					
Average time for Us co	ontrol				
	in AC				
		Closing NO			
			min	ms	8
			max	ms	24
		Opening NO			10
			min	ms	10
			max	ms	20
		Closing NC	min	ms	14
			max	ms	28
		Opening NC	Пал	1115	20
		oponing roo	min	ms	7
			max	ms	18
	in DC				
		Closing NO			
		-	min	ms	54
			max	ms	66
		Opening NO			
			min	ms	14
			max	ms	17
		Closing NC			0.4
			min	ms	24
		Opening NC	max	ms	30
			min	ms	47
			max	ms	57
UL technical data			ind.	1113	
Full-load current (FLA)	for three-phase AC	Cmotor			
			at 480V	А	21
			at 600V	А	17
Yielded mechanical pe	erformance				
	for single-phase A	AC motor			
			110/120V	HP	2
			230V	HP	3
	for three-phase A	C motor			
			200/208V	HP	7.5
			220/230V	HP	7.5
			460/480V	HP	15
			575/600V	HP	15

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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

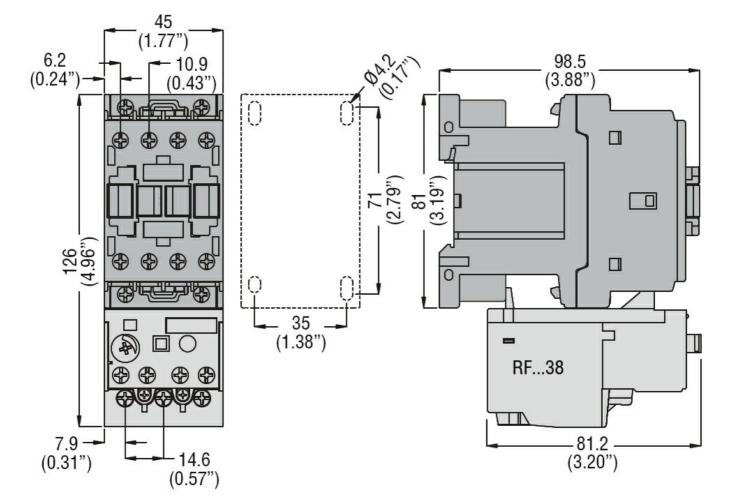


General USE			
Contactor			
	AC current	А	32
Auxiliary contacts			
	AC voltage	V	600
	AC current	А	10
	DC voltage	V	250
	DC current	Α	1
Short-circuit protection fuse, 600V			
High fault			
	Short circuit current	kA	100
	Fuse rating	Α	60
	Fuse class		J
Standard fault			
	Short circuit current	kA	5
	Fuse rating	Α	100
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			

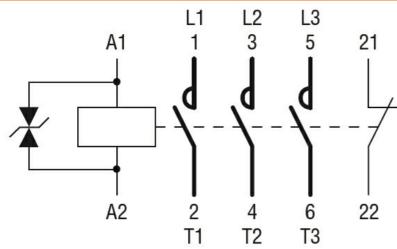
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Wiring diagrams



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	

Certificates



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	CCC
	cULus
	EAC
fication	

ETIM 8.0

ETIM class

EC000066 -Power contactor, AC switching