



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		Α	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	А	20
	48V	А	18
	75V	А	18
	110V	А	6
	220V	А	_
IEC max current le in DC1 with L/R ≤ 1ms 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	A	23
	75V	A	23
	110V	A	18
	1.00		



**BF2501A22060** THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 25A, AC COIL 60HZ, 220VAC, 1NC AUXILIARY CONTACT

## 220V А 12 IEC max current le in DC1 with L/R ≤ 1ms 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 13 А 75V 13 А 110V А 2 220V А \_ IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series ≤24V А 18 48V А 18 75V А 16 110V А 10 220V А 2 IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series ≤24V А 22 48V 22 А 75V А 18 110V А 15 220V А 8 IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series ≤24V А 48V А 75V А \_ 110V А \_ 220V А Short-time allowable current for 10s (IEC/EN60947-1) А 200 Protection fuse gG (IEC) A 50 aM (IEC) А 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) 2.5 mΩ Power dissipation per pole (average value) W 2.6 lth AC-3 W 1.6 Tightening torque for terminals min Nm 1.5 max Nm 1.8 min Ibin 1.1 lbin 1.5 max Tightening torque for coil terminal min Nm 0.8 Nm 1 max min lbin 0.8

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Max number of wires	simultaneously connectable	max	lbin Nr.	0.74
	simultaneously connectable		INF.	2
Conductor section	AWG/Kcmil			
	AWG/Remin	may		10
	Flexible w/o lug conductor section	max		10
		min	mm²	1
		max	mm²	6
	Flexible c/w lug conductor section	Пах		0
		min	mm²	1
		max	mm²	4
	Flexible with insulated spade lug conductor section			
		min	mm²	1
		max	mm²	4
		max		IP20 when
Power terminal protect	ction according to IEC/EN 60529			properly wired
Mechanical features				, , , , ,
Operating position				
		normal		Vertical plan
		allowable		±30°
Fiscin a				Screw / DIN ra
Fixing				35mm
Weight			g	350
Conductor section				
	AWG/kcmil conductor section			
		max		10
Auxiliary contact char	acteristics			
Thermal current Ith			А	10
IEC/EN 60947-5-1 de	esignation			A600 - P600
Operating current AC	15			
		230V	А	3
		400V	А	1.9
		500V	А	1.4
Operating current DC	12			
		110V	А	5.7
Operating current DC	13			
		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	А	0.2
Operations				
Mechanical life			cycles	2000000
Electrical life			cycles	1200000
Safety related data				
Performance level B1	0d according to EN/ISO 13489-1			
		rated load	cycles	1200000
	n	nechanical load	cycles	20000000
	ing to IEC/EN 600474 4 1			yes
Mirror contats accord	Ing to IEC/EN 609474-4-1			yes
Mirror contats accord EMC compatibility				yes

electric ENERGY AND AUTOMATION

THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 25A, AC COIL 60HZ,

220VAC, 1NC AUXILIARY CONTACT

BF2501A22060

	t 60Hz		V	220
AC operating voltag	le			
	of 60Hz coil powered at 60Hz			
	pick-up			
		min	%Us	80
		max	%Us	110
	drop-out			
		min	%Us	20
		max	%Us	55
AC average coil cor				
	of 60Hz coil powered at 60Hz	ia wyah	١/٨	75
		in-rush	VA	75
		holding	VA	9
Dissipation at holdir			W	2.5
Max cycles frequen			oveloo/b	2600
Mechanical operatic Operating times	лт 		cycles/h	3000
Average time for Us	s control			
worage time for Us	in AC			
	Closing NO			
		min	ms	8
		max	ms	24
	Opening NO			
		min	ms	10
		max	ms	20
	Closing NC			
	-	min	ms	14
		max	ms	28
	Opening NC			
		min	ms	7
				18
		max	ms	10
UL technical data		max	ms	10
	_A) for three-phase AC motor			
	_A) for three-phase AC motor	at 480V	A	21
Full-load current (Fl				
Full-load current (Fl	performance	at 480V	A	21
		at 480V at 600V	A A	21 17
Full-load current (Fl	performance	at 480V at 600V 110/120V	A A HP	21 17 2
Full-load current (Fl	performance for single-phase AC motor	at 480V at 600V	A A	21 17
Full-load current (Fl	performance	at 480V at 600V 110/120V 230V	A A HP HP	21 17 2 3
Full-load current (Fl	performance for single-phase AC motor	at 480V at 600V 110/120V 230V 200/208V	A A HP HP	21 17 2 3 7.5
Full-load current (Fl	performance for single-phase AC motor	at 480V at 600V 110/120V 230V 200/208V 220/230V	A A HP HP HP HP	21 17 2 3 7.5 7.5
Full-load current (Fl	performance for single-phase AC motor	at 480V at 600V 110/120V 230V 200/208V 220/230V 460/480V	A A HP HP HP HP HP	21 17 2 3 7.5 7.5 15
Full-load current (Fl Yielded mechanical	performance for single-phase AC motor	at 480V at 600V 110/120V 230V 200/208V 220/230V	A A HP HP HP HP	21 17 2 3 7.5 7.5
Full-load current (Fl Yielded mechanical	performance for single-phase AC motor for three-phase AC motor	at 480V at 600V 110/120V 230V 200/208V 220/230V 460/480V	A A HP HP HP HP HP	21 17 2 3 7.5 7.5 15
Full-load current (Fl Yielded mechanical	performance for single-phase AC motor	at 480V at 600V 110/120V 230V 200/208V 220/230V 460/480V 575/600V	A A HP HP HP HP HP HP	21 17 2 3 7.5 7.5 15 15 15
Full-load current (Fl Yielded mechanical	performance for single-phase AC motor for three-phase AC motor	at 480V at 600V 110/120V 230V 200/208V 220/230V 460/480V	A A HP HP HP HP HP	21 17 2 3 7.5 7.5 15
Full-load current (Fl Yielded mechanical	performance for single-phase AC motor for three-phase AC motor	at 480V at 600V 110/120V 230V 200/208V 220/230V 460/480V 575/600V AC current	A A HP HP HP HP HP HP	21 17 2 3 7.5 7.5 15 15 15 32
Full-load current (Fl Yielded mechanical	performance for single-phase AC motor for three-phase AC motor	at 480V at 600V 110/120V 230V 200/208V 220/230V 460/480V 575/600V AC current AC voltage	A A HP HP HP HP HP HP HP	21 17 2 3 7.5 7.5 15 15 15 32 600
Full-load current (Fl	performance for single-phase AC motor for three-phase AC motor	at 480V at 600V 110/120V 230V 200/208V 220/230V 460/480V 575/600V AC current	A A HP HP HP HP HP HP	21 17 2 3 7.5 7.5 15 15 15 32

High fault



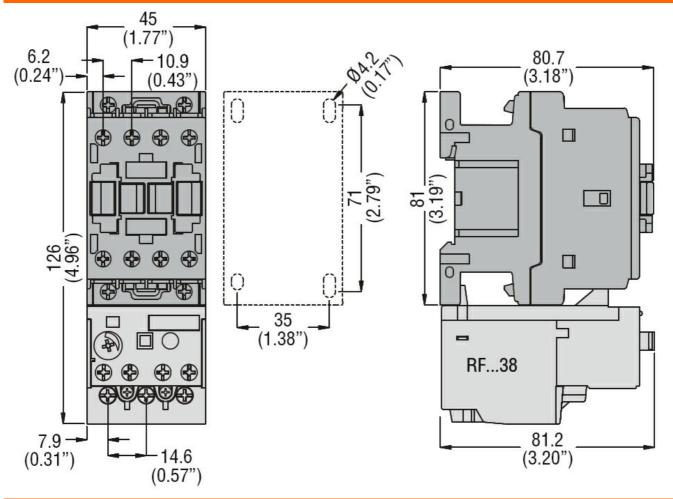
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ENERGY AND AUTOMATION		,		
		Short circuit current	kA	100
		Fuse rating	А	60
		Fuse class		J
	Standard fault			
		Short circuit current	kA	5
		Fuse rating	А	100
Contact rating of auxilia	ary contacts according to UL			A600 - P600
Ambient conditions				
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

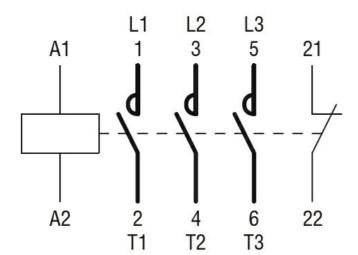
Dimensions



## Wiring diagrams

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## Certifications and compliance

Comp	liance

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
	cULus
	EAC
ETIM classification	

**ETIM 8.0** 

EC000066 -Power contactor, AC switching