



Product designation Product type designation			Power contactor BF25
Contact characteristics			51 20
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
IFO many summary la in DO4 with L/D < America with 0 males in a mine	220V	A	_
IEC max current le in DC1 with $L/R \le 1$ ms with 2 poles in series	-0.1) (	•	00
	≤24V	A	23
	48V	A	23
	75V	A	23
	110V 220V	A	16 1
IEC max current le in DC1 with $L/R \le 1$ ms with 3 poles in series	2200	A	I
The max current is in DCT with $L/R \ge 1000$ with 5 poiss in series	≤24V	۸	22
	≤24∨ 48V	A	23 23
	48 V 75 V	A A	23
	110V	A	18
	1100	А	10



THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 25A, AC COIL 60HZ, 120VAC, 1NC AUXILIARY CONTACT

BF2501A12060

## 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

BF2501A12060

min

lbin

0.8



THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 25A, AC COIL 60HZ, 120VAC, 1NC AUXILIARY CONTACT

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Max as what of using a		max	Ibin	0.74
Max number of wires Conductor section	simultaneously connectable		Nr.	2
Conductor section	AWG/Kcmil			
		max		10
	Flexible w/o lug conductor section	Пах		10
		min	mm²	1
		max	mm²	6
	Flexible c/w lug conductor section			
	Ū.	min	mm²	1
		max	mm²	4
	Flexible with insulated spade lug conductor section			
		min	mm²	1
		max	mm²	4
Power terminal protec	ction according to IEC/EN 60529			IP20 when
•				properly wired
Mechanical features				
Operating position				
		normal		Vertical plan
		allowable		±30°
Fixing				Screw / DIN ra
Weight			~ ~	35mm 356
Conductor section			g	300
Conductor Section	AWG/kcmil conductor section			
	AWG/Remii conductor section	max		10
Auxiliary contact char	acteristics	max		10
Thermal current Ith			А	10
IEC/EN 60947-5-1 de	esignation		7.	A600 - P600
Operating current AC	-			1000 1000
oporating carron re		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
		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	10d according to EN/ISO 13489-1			
		rated load	cycles	1200000
		echanical load	cycles	2000000
	ling to IEC/EN 609474-4-1			yes
EMC compatibility				yes
AC coil operating				

electric ENERGY AND AUTOMATION

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

120VAC, 1NC AUXILIARY CONTACT

BF2501A12060

Rated AC voltage at	60Hz		V	120
AC operating voltage	e			
	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 con	sumption at 20°C			
	of 60Hz coil powered at 60Hz			
		in-rush	VA	75
		holding	VA	9
Dissipation at holdin	g ≤20°C 50Hz		W	2.5
Max cycles frequend				
Mechanical operatio			cycles/h	3600
Operating times			,	
Average time for Us	control			
	in AC			
	Closing NO			
		min	ms	8
		max	ms	24
	Opening NO	max	ino	2 '
	opolinig No	min	ms	10
		max	ms	20
	Closing NC	Пал	1115	20
		min	ms	14
		max	ms	28
	Opening NC	Пал	1115	20
		min	ms	7
		max	ms	, 18
UL technical data		max	1113	10
	A) for three-phase AC motor			
	A) for three-phase AC motor	at 480V	А	21
		at 600V	A	17
Violdod mochanical	norformanaa	al 000 v	A	17
Yielded mechanical	-			
	for single-phase AC motor	440/4001/		0
		110/120V	HP	2
		230V	HP	3
	for three-phase AC motor	000/0000		7 5
		200/208V	HP	7.5
		220/230V	HP	7.5
		460/480V	HP	15
<u> </u>		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 protecti	on fuse, 600V			
	High fault			



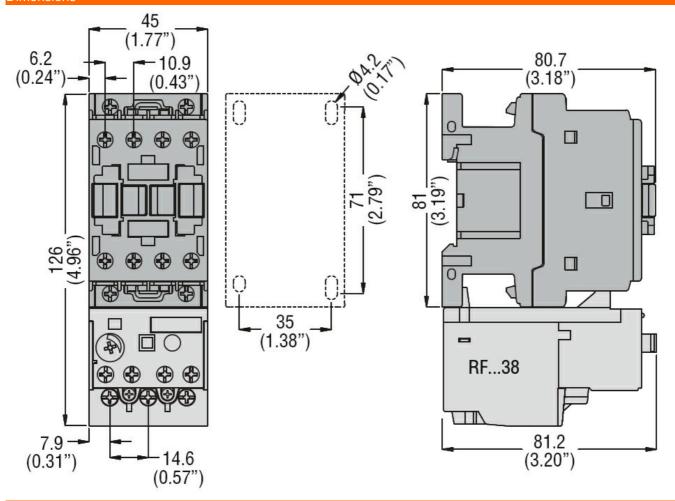
BF2501A12060 THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 25A, AC COIL 60HZ, 120VAC, 1NC AUXILIARY CONTACT

		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	S			
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

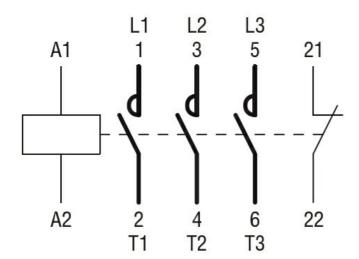
Dimensions



## Wiring diagrams

3





## 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