



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
	220V	A	_
IEC max current le in DC1 with $L/R \le 1$ ms with 2 poles in series	-0.414		
	≤24V	A	23
	48V	A	23
	75V	A	23
	110V	A	16
IEC may aurrent to in DC1 with 1/D < 1mc with 2 palas in series	220V	A	1
IEC max current le in DC1 with $L/R \le 1$ ms with 3 poles in series	-011	۸	22
	≤24V	A	23
	48V	A	23
	75V	A	23
	110V	A	18



BF2510A57560 THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 25A, AC COIL 60HZ, 575VAC, 1NO 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

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min

lbin

0.8



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		max	Ibin	0.74
	simultaneously connectable		Nr.	2
Conductor section				
	AWG/Kcmil	201		10
	Elevible w/e lug conductor postion	max		10
	Flexible w/o lug conductor section	min	mm²	1
		max	mm²	6
	Flexible c/w lug conductor section	max		0
		min	mm²	1
		max	mm²	4
	Flexible with insulated spade lug conductor section	max		·
		min	mm²	1
		max	mm²	4
				IP20 when
Power terminal prote	ction according to IEC/EN 60529			properly wired
Mechanical features				1 1 2
Operating position				
		normal		Vertical plan
		allowable		±30°
Fixing				Screw / DIN ra
				35mm
Weight			g	346
Conductor section				
	AWG/kcmil conductor section			
		max		10
Auxiliary contact char	acteristics			4.0
Thermal current Ith			A	10
IEC/EN 60947-5-1 de				A600 - P600
Operating current AC	15			
Operating current AC	:15	230V	A	3
Operating current AC	:15	400V	А	3 1.9
				3
		400V 500V	A A	3 1.9 1.4
Operating current DC	:12	400V	А	3 1.9
Operating current DC	:12	400V 500V 110V	A A A	3 1.9 1.4 5.7
Operating current DC	:12	400V 500V 110V 24V	A A A	3 1.9 1.4 5.7 5.7
Operating current DC	:12	400V 500V 110V 24V 48V	A A A A A	3 1.9 1.4 5.7 5.7 2.9
Operating current DC	:12	400V 500V 110V 24V 48V 60V	A A A A A A	3 1.9 1.4 5.7 5.7 2.9 2.3
Operating current DC	:12	400V 500V 110V 24V 48V 60V 110V	A A A A A A A A	3 1.9 1.4 5.7 5.7 2.9 2.3 1.25
Operating current DC	:12	400V 500V 110V 24V 48V 60V 110V 125V	A A A A A A A A A	3 1.9 1.4 5.7 5.7 2.9 2.3 1.25 1.1
Operating current DC	:12	400V 500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A A A A	3 1.9 1.4 5.7 5.7 2.9 2.3 1.25 1.1 0.55
Operating current DC	:12	400V 500V 110V 24V 48V 60V 110V 125V	A A A A A A A A A	3 1.9 1.4 5.7 5.7 2.9 2.3 1.25 1.1
Operating current DC Operating current DC	:12	400V 500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A A A A A A	3 1.9 1.4 5.7 5.7 2.9 2.3 1.25 1.1 0.55 0.2
Operating current DC Operating current DC Operations Mechanical life	:12	400V 500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A A A A A Cycles	3 1.9 1.4 5.7 5.7 2.9 2.3 1.25 1.1 0.55 0.2 20000000
Operating current DC Operating current DC Operations Mechanical life Electrical life	:12	400V 500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A A A A A A	3 1.9 1.4 5.7 5.7 2.9 2.3 1.25 1.1 0.55 0.2
Operating current DC Operating current DC Operations Mechanical life Electrical life Safety related data	212	400V 500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A A A A A Cycles	3 1.9 1.4 5.7 5.7 2.9 2.3 1.25 1.1 0.55 0.2 20000000
Operating current DC Operating current DC Operations Mechanical life Electrical life Safety related data	:12	400V 500V 110V 24V 48V 60V 110V 125V 220V 600V	A A A A A A A A A A Cycles cycles	3 1.9 1.4 5.7 5.7 2.9 2.3 1.25 1.1 0.55 0.2 20000000 1200000
Operating current DC Operating current DC Operations Mechanical life Electrical life Safety related data	212 213 10d according to EN/ISO 13489-1	400V 500V 110V 24V 48V 60V 110V 125V 220V 600V	A A A A A A A A A Cycles cycles	3 1.9 1.4 5.7 5.7 2.9 2.3 1.25 1.1 0.55 0.2 20000000 1200000 1200000
Operating current DC Operating current DC Operations Mechanical life Electrical life Safety related data Performance level B ²	212 213 10d according to EN/ISO 13489-1 met	400V 500V 110V 24V 48V 60V 110V 125V 220V 600V	A A A A A A A A A A Cycles cycles	3 1.9 1.4 5.7 5.7 2.9 2.3 1.25 1.1 0.55 0.2 20000000 1200000 1200000 1200000
Operating current DC Operating current DC Operations Mechanical life Electrical life Safety related data Performance level B ²	212 213 10d according to EN/ISO 13489-1	400V 500V 110V 24V 48V 60V 110V 125V 220V 600V	A A A A A A A A A Cycles cycles	3 1.9 1.4 5.7 5.7 2.9 2.3 1.25 1.1 0.55 0.2 20000000 1200000 1200000

electric ENERGY AND AUTOMATION

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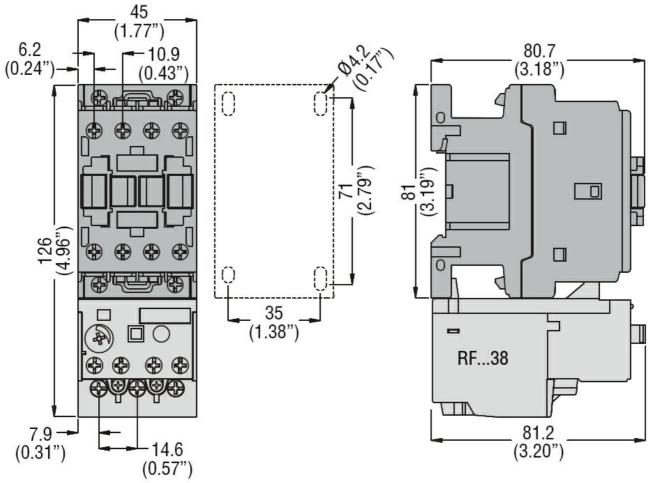
575VAC, 1NO AUXILIARY CONTACT

Rated AC voltage at	60Hz		V	575
AC operating voltag	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 cor	•			
	of 60Hz coil powered at 60Hz			
		in-rush	VA	75
		holding	VA	9
Dissipation at holdir			W	2.5
Max cycles frequen				
Mechanical operatio	n		cycles/h	3600
Operating times				
Average time for Us				
	in AC			
	Closing I			_
		min	ms	8
		max	ms	24
	Opening			
		min	ms	10
		max	ms	20
	Closing I			
		min	ms	14
	Ononing	max	ms	28
	Opening			7
		min	ms	7
UL technical data		max	ms	18
	A) for three-phase AC motor			
	A) for three-phase AO motor	at 480V	А	21
		at 600V	A	17
Yielded mechanical	performance		Π	17
	for single-phase AC motor			
	Tor single-phase AC Inolor	110/120V	HP	2
		230V	HP	3
	for three-phase AC motor	2001		<u> </u>
		200/208V	HP	7.5
		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	Å	10
		DC voltage	V	250
		DC current		1
		20 001011		
Short-circuit protect	on fuse. 600V			



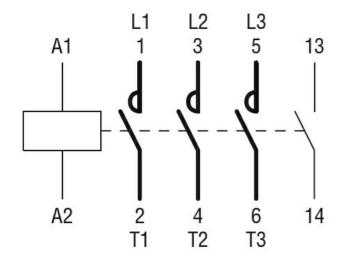
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		Short circuit current	kA	100
		Fuse rating	А	60
		Fuse class		J
	Standard fault			
		Short circuit current	kA	5
		Fuse rating	А	100
Contact rating of au	uxiliary contacts according to UL			A600 - P600
Ambient conditions	3			
Temperature				
	Operating 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
Dimensions				
	45			



Wiring diagrams





Certifications and compliance

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
	cULus
	EAC
ETIM classification	

ETIM 8.0

EC000066 -Power contactor, AC switching