



			•
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			•
oporational modulo op	min	Hz	25
	max	Hz	400
IEC Conventional free air thermal current Ith	Παλ	A	32
Operational current le		~	52
	$A \subset 1 (< 10^{\circ} C)$	۸	22
	AC-1 (≤40°C)	A	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			
	≤24V	А	20
	48V	А	18
	75V	А	18
	110V	А	6
	220V	А	_
IEC max current le in DC1 with $L/R \le 1$ ms 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		



	220V	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 \leq 15ms with 1 poles in series			
	≤24V	Α	15
	48V	А	13
	75V	А	13
	110V	А	2
	220V	A	_
	220 V	~	
IEC max current le in DC3-DC5 with L/R \leq 15ms with 2 poles in series			
	≤24V	A	18
	48V	Α	18
	75V	А	16
	110V	А	10
	220V	A	2
IEC max current le in DC3-DC5 with L/R \leq 15ms with 3 poles in series	2201		۲
The max current le in DC3-DC5 with $L/R \leq 15$ ms with 5 poles in series	10 M /		
	≤24V	A	22
	48V	А	22
	75V	Α	18
	110V	А	15
	220V	А	8
IEC max current le in DC3-DC5 with L/R \leq 15ms with 4 poles in series			
	≤24V	А	
			-
	48V	A	-
	75V	А	-
	110V	Α	-
	220V	Α	-
Short-time allowable current for 10s (IEC/EN60947-1)		Α	200
Protection fuse			
	gG (IEC)	А	50
	aM (IEC)	A	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)		mΩ	2.5
		11122	2.0
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
Tightoning torque for coil torminal	max		1.0
Tightening torque for coil terminal			
	min	Nm	0.8
	max	Nm	1
	min	lbin	0.8



Max as well and for the		max	lbin	0.74
	simultaneously connectable		Nr.	2
Conductor section				
	AWG/Kcmil			10
	Elevitele/e. hue another exertion	max		10
	Flexible w/o lug conductor section	min	mm2	4
		min	mm²	1
	Elevitele etc. has encluster exertise	max	mm²	6
	Flexible c/w lug conductor section		2	
		min	mm²	1
		max	mm²	4
	Flexible with insulated spade lug conductor section			
		min	mm²	1
		max	mm²	4
Power terminal protect	ction according to IEC/EN 60529			IP20 when
· ·				properly wired
Mechanical features				
Operating position				
		normal		Vertical plan
		allowable		±30°
Fixing				Screw / DIN rai
				35mm
Weight			g	500
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				
			-	
J J J J J J J J J J		230V	A	3
		230V 400V	A A	3 1.9
		400V	А	1.9
	12			
Operating current DC	12	400V 500V	A A	1.9 1.4
Operating current DC		400V	А	1.9
Operating current DC		400V 500V 110V	A A A	1.9 1.4 5.7
Operating current DC		400V 500V 110V 24V	A A A	1.9 1.4 5.7 5.7
Operating current DC		400V 500V 110V 24V 48V	A A A A	1.9 1.4 5.7 5.7 2.9
Operating current DC		400V 500V 110V 24V 48V 60V	A A A A A A	1.9 1.4 5.7 5.7 2.9 2.3
Operating current DC		400V 500V 110V 24V 48V 60V 110V	A A A A A A A	1.9 1.4 5.7 5.7 2.9 2.3 1.25
· · ·		400V 500V 110V 24V 48V 60V 110V 125V	A A A A A A A A	1.9 1.4 5.7 5.7 2.9 2.3 1.25 1.1
Operating current DC		400V 500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A A A A	1.9 1.4 5.7 5.7 2.9 2.3 1.25 1.1 0.55
Operating current DC		400V 500V 110V 24V 48V 60V 110V 125V	A A A A A A A A	1.9 1.4 5.7 5.7 2.9 2.3 1.25 1.1
Operating current DC Operating current DC		400V 500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A A A A A	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		400V 500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A A A A Cycles	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		400V 500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A A A A A	1.9 1.4 5.7 5.7 2.9 2.3 1.25 1.1 0.55 0.2
Operating current DC		400V 500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A A A A Cycles	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		400V 500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A A A A Cycles	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	13	400V 500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A A A A Cycles	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	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 A Cycles cycles	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 B1	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 A Cycles cycles	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 B1	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 A Cycles cycles	1.9 1.4 5.7 5.7 2.9 2.3 1.25 1.1 0.55 0.2 20000000 1200000 1200000



AC operating voltage

of 50/60Hz coil powered at 50Hz

drop-out	t
drop-out	t

		ulop-out	max	%Us	55
DC coil operating				,	
DC rated control voltag	je			V	48
DC operating voltage					
	pick-up				
			min	%Us	80
			max	%Us	110
	drop-out				10
			min	%Us	10
A			max	%Us	40
Average coil consumpt	$lion \leq 20^{\circ}C$		in ruch	14/	2.4
			in-rush holding	W W	2.4 2.4
Max cycles frequency			noiding	VV	2.4
Max cycles nequency Mechanical operation				cycles/h	3600
Operating times				590100/11	
Average time for Us co	ontrol				
	in AC				
		Closing NO			
		2	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		7
			min max	ms ms	7 18
	in DC		Παλ	1113	10
		Closing NO			
		0.00mg 1.0	min	ms	75
			max	ms	91
		Opening NO			
		-	min	ms	15
			max	ms	19
UL technical data					
Full-load current (FLA)	for three-phase /	AC motor			
			at 480V	A	21
<u></u>			at 600V	A	17
Yielded mechanical pe		. A.O			
	for single-phase	e au motor	440/4001		2
			110/120V 230V	HP HD	2
	for three-phase	AC motor	23UV	HP	3
			200/208V	HP	7.5
			220/230V	HP	7.5
			460/480V	HP	15
			575/600V	HP	15
General USE					

General USE

BF2510L048



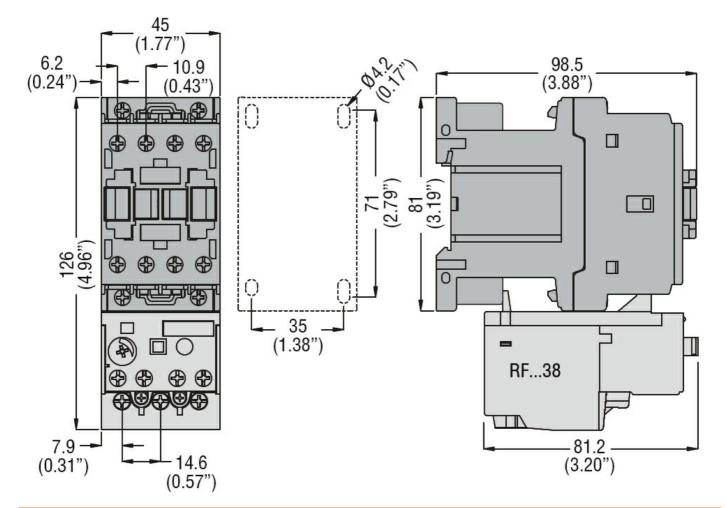
THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 25A, DC COIL LOW CONSUMPTION, 48VDC, 1NO AUXILIARY CONTACT

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 protection fuse, 600V			
High fault			
	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 auxiliary contacts according	to UL		A600 - P600
Ambient conditions			
Temperature			
Operating temperatu	Ire		
	min	°C	-50
	max	°C	70
Storage temperature	9		
	min	°C	-60
	max	°C	80
Max altitude		m	3000
Resistance & Protection			
Pollution degree			3
Dimensions			

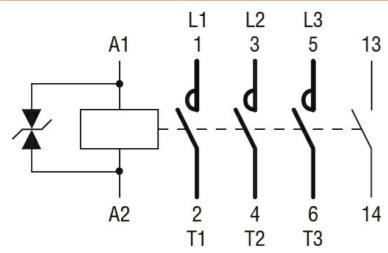
BF2510L048



THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 25A, DC COIL LOW CONSUMPTION, 48VDC, 1NO AUXILIARY CONTACT



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



	CCC			
	cULus			
	EAC			
sification				

ETIM 8.0

ETIM clas

EC000066 -Power contactor, AC switching