



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)	Α	32
AC-1 (≤55°C)	Α	26
AC-1 (≤70°C)	Α	23
AC-3 (≤440V ≤55°C)	Α	25
AC-4 (400V)	Α	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 ≤ 1ms with 1 poles in series		
≤24V	Α	20
48V	Α	18
75V	Α	18
110V	Α	6
220V	Α	_
IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series		
≤24V	Α	23
48V	Α	23
75V	Α	23
110V	Α	16
	Α	1
IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series		
≤24V	Α	23
48V	Α	23
75V	Α	23
110V	Α	18



	220V	Α	12
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series			
	≤24V	Α	_
	48V	Α	_
	75V	Α	_
	110V	Α	_
	220V	Α	_
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series			
	≤24V	Α	15
	48V	Α	13
	75V	Α	13
	110V	Α	2
	220V	Α	_
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series			
·	≤24V	Α	18
	48V	Α	18
	75V	Α	16
	110V	Α	10
	220V	A	2
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series			_
	≤24V	Α	22
	48V	Α	22
	75V	Α	18
	110V	A	15
	220V	Α	8
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series	220 V		
120 max out one to in 200 200 with 2/10 = 10mb with 4 poles in series	≤24V	Α	_
	48V	A	_
	75V	A	_
	110V	A	_
	220V	A	_
Short-time allowable current for 10s (IEC/EN60947-1)	220 V		200
Protection fuse			200
1 100000011 1000	gG (IEC)	Α	50
	aM (IEC)	A	25
Making capacity (RMS value)	aw (IZO)		250
Breaking capacity at voltage			200
	440V	Α	200
	500V	A	184
	690V	Α	102
Resistance per pole (average value)	300 v	mΩ	2.5
Power dissipation per pole (average value)		11122	2.0
1 oner alsoipation per pole (average value)	Ith	W	2.6
	AC-3	W	1.6
Tightening torque for terminals	70-3	V V	1.0
rightening torque for terminals	min	Nm	1.5
	max	Nm	1.8
	min	lbin	1.0
		lbin	1.5
Tightening torque for coil terminal	max	וווטו	1.0
rightening torque for contentinal	min	Nlm	Λ 8
	min	Nm Nm	0.8
	max	Nm Ibin	1
	min	lbin	0.8



BF2510A230

		max	Ibin	0.74
	simultaneously connectable		Nr.	2
Conductor section	AMO (14			
	AWG/Kcmil			40
	Florible wie land on distance atting	max		10
	Flexible w/o lug conductor section	min	mm²	1
		max	mm²	1 6
	Flexible c/w lug conductor section	IIIax	111111	U
	r lexible 6/W lug corrudetor section	min	mm²	1
		max	mm²	4
	Flexible with insulated spade lug conductor section			•
		min	mm²	1
		max	mm²	4
Dower terminal protec	otion according to IEC/EN 60520			IP20 when
	ction according to IEC/EN 60529			properly wired
Mechanical features				
Operating position				
		normal		Vertical plan
		allowable		±30°
Fixing				Screw / DIN rail 35mm
Weight			g	358
Conductor section			9	330
Conductor Section	AWG/kcmil conductor section			
	AWV SARGITIII OOTIGGOOT SCOTIOTI	max		10
Auxiliary contact char	acteristics			
Thermal current Ith			Α	10
IEC/EN 60947-5-1 de	esignation			A600 - P600
Operating current AC	<del>-</del>			
Operating current AC	<del>-</del>	230V	Α	3
Operating current AC	<del>-</del>	230V 400V	A A	3 1.9
	15			
Operating current AC	15	400V 500V	Α	1.9 1.4
Operating current DC	15	400V	Α	1.9
	15	400V 500V 110V	A A	1.9 1.4 5.7
Operating current DC	15	400V 500V 110V 24V	A A A	1.9 1.4 5.7 5.7
Operating current DC	15	400V 500V 110V 24V 48V	A A A A	1.9 1.4 5.7 5.7 2.9
Operating current DC	15	400V 500V 110V 24V 48V 60V	A A A A A	1.9 1.4 5.7 5.7 2.9 2.3
Operating current DC	15	400V 500V 110V 24V 48V 60V 110V	A A A A A	1.9 1.4 5.7 5.7 2.9 2.3 1.25
Operating current DC	15	400V 500V 110V 24V 48V 60V 110V 125V	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	15	400V 500V 110V 24V 48V 60V 110V 125V 220V	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 Operating current DC	15	400V 500V 110V 24V 48V 60V 110V 125V	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 Operations	15	400V 500V 110V 24V 48V 60V 110V 125V 220V	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	15	400V 500V 110V 24V 48V 60V 110V 125V 220V	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
Operating current DC Operating current DC  Operations Mechanical life Electrical life	15	400V 500V 110V 24V 48V 60V 110V 125V 220V	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 Electrical life Safety related data	212	400V 500V 110V 24V 48V 60V 110V 125V 220V	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
Operating current DC Operating current DC Operations Mechanical life Electrical life Safety related data	15	400V 500V 110V 24V 48V 60V 110V 125V 220V 600V	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 12000000
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	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
Operating current DC Operating current DC Operations Mechanical life Electrical life Safety related data Performance level B	115 112 113 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 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 20000000
Operating current DC Operating current DC Operations Mechanical life Electrical life Safety related data Performance level BC Mirror contats accord	10d according to EN/ISO 13489-1	400V 500V 110V 24V 48V 60V 110V 125V 220V 600V	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 12000000 200000000 yes
Operating current DC Operating current DC Operations Mechanical life Electrical life Safety related data Performance level B	115 112 113 10d according to EN/ISO 13489-1	400V 500V 110V 24V 48V 60V 110V 125V 220V 600V	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 20000000



Rated AC voltage at 5	0/60Hz		V	230
AC operating voltage				
	of 50/60Hz coil powered at 50Hz			
	pick-up			
		min	%Us	80
	drop out	max	%Us	110
	drop-out	min	%Us	20
		max	%Us	55
	of 50/60Hz coil powered at 60Hz	ПСХ	7000	
	pick-up			
	·	min	%Us	85
		max	%Us	110
	drop-out			
		min	%Us	20
<del></del>		max	%Us	55
AC average coil consu				
	of 50/60Hz coil powered at 50Hz	عامد سر منا	VA	75
		in-rush holding	VA VA	75 9
	of 50/60Hz coil powered at 60Hz	noluling	VA	9
	or 30/00112 con powered at 00112	in-rush	VA	70
		holding	VA	6.5
	of 60Hz coil powered at 60Hz			
	·	in-rush	VA	75
		holding	VA	9
Dissipation at holding	≤20°C 50Hz		W	2.5
Max cycles frequency				
				222
Mechanical operation			cycles/h	3600
Mechanical operation Operating times	ontrol		cycles/h	3600
Mechanical operation			cycles/h	3600
Mechanical operation Operating times	in AC		cycles/h	3600
Mechanical operation Operating times		min		
Mechanical operation Operating times	in AC	min max	cycles/h ms ms	3600 8 24
Mechanical operation Operating times	in AC		ms	8
Mechanical operation Operating times	in AC Closing NO		ms	8 24 10
Mechanical operation Operating times	in AC Closing NO Opening NO	max	ms ms	8 24
Mechanical operation Operating times	in AC Closing NO	max min max	ms ms ms	8 24 10 20
Mechanical operation Operating times	in AC Closing NO Opening NO	max min max min	ms ms ms ms	8 24 10 20
Mechanical operation Operating times	in AC Closing NO Opening NO Closing NC	max min max	ms ms ms	8 24 10 20
Mechanical operation Operating times	in AC Closing NO Opening NO	max min max min max	ms ms ms ms	8 24 10 20 14 28
Mechanical operation Operating times	in AC Closing NO Opening NO Closing NC	max min max min max min max	ms ms ms ms ms	8 24 10 20 14 28
Mechanical operation Operating times Average time for Us of	in AC Closing NO Opening NO Closing NC	max min max min max	ms ms ms ms	8 24 10 20 14 28
Mechanical operation Operating times Average time for Us of	in AC Closing NO Opening NO Closing NC	max min max min max min max	ms ms ms ms ms	8 24 10 20 14 28
Mechanical operation Operating times Average time for Us of	in AC  Closing NO  Opening NO  Closing NC  Opening NC	max min max min max min max	ms ms ms ms ms	8 24 10 20 14 28
Mechanical operation Operating times Average time for Us of  UL technical data Full-load current (FLA)	in AC Closing NO Opening NO Closing NC Opening NC Opening NC	max min max min max min max	ms ms ms ms ms	8 24 10 20 14 28 7 18
Mechanical operation Operating times Average time for Us of	in AC Closing NO Opening NO Closing NC Opening NC Opening NC Opening NC	max min max min max min max at 480V	ms ms ms ms ms ms	8 24 10 20 14 28 7 18
Mechanical operation Operating times Average time for Us of  UL technical data Full-load current (FLA)	in AC Closing NO Opening NO Closing NC Opening NC Opening NC	min max min max min max min max at 480V at 600V	ms ms ms ms ms ms	8 24 10 20 14 28 7 18
Mechanical operation Operating times Average time for Us of  UL technical data Full-load current (FLA)	in AC Closing NO Opening NO Closing NC Opening NC Opening NC Opening NC	min max min max min max min max at 480V at 600V	ms ms ms ms ms ms	8 24 10 20 14 28 7 18
Mechanical operation Operating times Average time for Us of  UL technical data Full-load current (FLA)	in AC  Closing NO  Opening NO  Closing NC  Opening NC  Opening NC  of three-phase AC motor  erformance for single-phase AC motor	min max min max min max min max at 480V at 600V	ms ms ms ms ms ms	8 24 10 20 14 28 7 18
Mechanical operation Operating times Average time for Us of  UL technical data Full-load current (FLA)	in AC Closing NO Opening NO Closing NC Opening NC Opening NC Opening NC	min max min max min max min max at 480V at 600V	ms ms ms ms ms ms	8 24 10 20 14 28 7 18

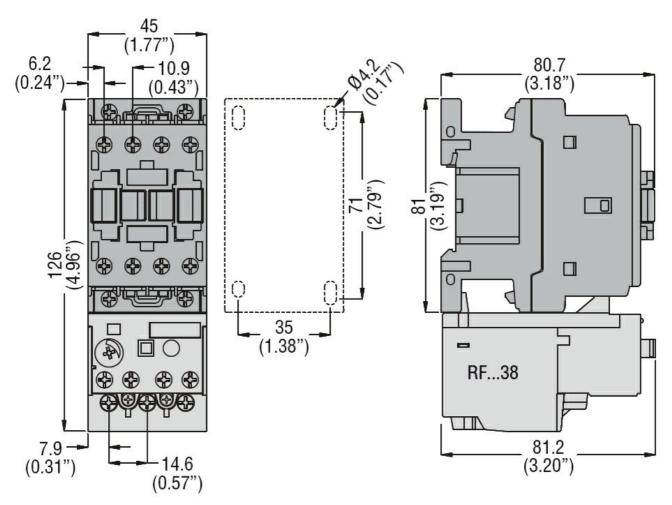




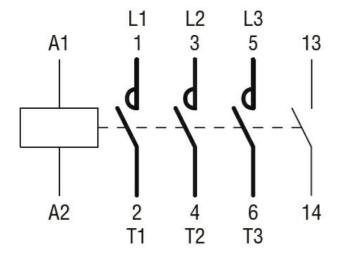
220/230V								
S75/600V			220/230V	HP	7.5			
Contactor			460/480V	HP	15			
Contactor			575/600V	HP	15			
AC current	General USE							
Auxiliary contacts  AC voltage		Contactor						
AC voltage			AC current	Α	32			
AC current   A   10     DC voltage   V   250     DC current   A   1     DC voltage   DC current   A   1     Short-circuit current   KA   100     Fuse rating   A   60     Fuse class   J     Standard fault     Short circuit current   KA   5     Fuse rating   A   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		Auxiliary contacts						
DC voltage   V   250     DC current		•	AC voltage V 600 AC current A 10 DC voltage V 250					
DC current			AC current	Α	10			
Short-circuit protection fuse, 600V   High fault   Short circuit current   Fuse rating   A   60   Fuse class   J   Standard fault   Short circuit current   Fuse rating   A   100   Fuse class   J   Standard fault   Short circuit current   Fuse rating   A   100   A			DC voltage	V	250			
High fault			DC current	Α	1			
High fault	Short-circuit protect	tion fuse, 600V						
Fuse rating Fuse class								
Standard fault   Short circuit current   KA   5   Fuse rating   A   100		· ·	Short circuit current	kA	100			
Standard fault   Short circuit current   KA   5   Fuse rating   A   100			Fuse rating	Α	60			
Short circuit current   Fuse rating   Fuse rating   A   100			Fuse class		J			
Fuse rating		Standard fault						
Contact rating of auxiliary contacts according to UL         A600 - P600           Ambient conditions           Temperature           Min °C -50 max °C 70           Storage temperature           min °C -60 max °C 80           Max altitude           Resistance & Protection           Pollution degree			Short circuit current	kA	5			
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			Fuse rating	Α	100			
Temperature	Contact rating of au	ixiliary contacts according to UL			A600 - P600			
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	Ambient conditions							
min min max         °C -50 max         -50 max         °C 70           Storage temperature           min °C -60 max         °C 80           Max altitude         m 3000           Resistance & Protection           Pollution degree         3	Temperature							
min min max         °C -50 max         -50 max         °C 70           Storage temperature           min °C -60 max         °C 80           Max altitude         m 3000           Resistance & Protection           Pollution degree         3	·	Operating temperature						
Storage temperature           min %C -60 max %C 80           Max altitude         m 3000           Resistance & Protection         Storage temperature           Pollution degree         3			min	°C	-50			
min %C         -60           max %C         80           Max altitude         m         3000           Resistance & Protection         3           Pollution degree         3			max	°C	70			
min %C         -60           max %C         80           Max altitude         m         3000           Resistance & Protection         3           Pollution degree         3		Storage temperature						
Max altitude m 3000  Resistance & Protection  Pollution degree 3			min	°C	-60			
Resistance & Protection Pollution degree 3			max	°C	80			
Pollution degree 3	Max altitude			m	3000			
	Resistance & Prote	ection						
	Pollution degree				3			



**ENERGY AND AUTOMATION** 



### 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



### BF2510A230

THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 25A, AC COIL 50/60HZ, 230VAC, 1NO AUXILIARY CONTACT

cULus			
EAC			

ETIM classification

ETIM 8.0

EC000066 -Power contactor, AC switching