



Product designation			Power contactor
Product type designation			BF25
Contact characteristics		Nla	2
Number of poles		Nr.	3
Rated insulation voltage Ui IEC/EN		V	690
Rated impulse withstand voltage Uimp		kV	6
Operational frequency			0.5
	min	Hz	25
	max	Hz	400
IEC Conventional free air thermal current Ith		A	32
Operational current le			
	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	Α	-
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	А	23
	75V	А	23
	110V	А	18



BF2510A230 THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 25A, AC COIL 50/60HZ, 230VAC, 1NO AUXILIARY CONTACT

	220V	А	12	
IEC max current le in DC1 with $L/R \le 1$ ms with 4 poles in series				
	≤24V	А	_	
	48V	А	-	
	75V	А	-	
	110V	А	-	
	220V	Α	-	
IEC max current le in DC3-DC5 with L/R $\leq$ 15ms with 1 poles in series				
	≤24V	А	15	
	48V	А	13	
	75V	А	13	
	110V	А	2	
	220V	Α	-	
IEC max current le in DC3-DC5 with L/R $\leq$ 15ms with 2 poles in series				
	≤24V	А	18	
	48V	А	18	
	75V	А	16	
	110V	А	10	
	220V	Α	2	
IEC max current le in DC3-DC5 with L/R $\leq$ 15ms with 3 poles in series				
	≤24V	А	22	
	48V	А	22	
	75V	А	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	А	-	
	75V	А	-	
	110V	А	-	
	220V	А	_	
Short-time allowable current for 10s (IEC/EN60947-1)		А	200	
Protection fuse				
	gG (IEC)	А	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)		mΩ	2.5	
Power dissipation per pole (average value)				
	lth	W	2.6	
	AC3	W	1.6	
Tightening torque for terminals				
	min	Nm	1.5	
	max	Nm	1.8	
	min	Ibin	1.1	
	max	Ibin	1.5	
Tightening torque for coil terminal				
	min	Nm	0.8	
	max	Nm	1	
		11. 1 .	0.0	

BF2510A230

Ibin

min

0.8



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BF2510A230

Max number of wires	simultaneously connectable	max	Ibin Nr.	0.74
Conductor section	simultaneously connectable		INF.	2
Conductor section	AWG/Kcmil			
	AWG/RCIIII	max		10
	Flexible w/o lug conductor section	IIIdX		10
		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			•
		min	mm²	1
		max	mm²	4
De la familia la conte				IP20 when
Power terminal prote	ction according to IEC/EN 60529			properly wired
Mechanical features				
Operating position				
		normal		Vertical plan
		allowable		±30°
Fixing				Screw / DIN ra
				35mm
Weight			g	358
Conductor section				
	AWG/kcmil conductor section			
		max		10
Auxiliary contact char	acteristics			
Thermal current Ith			A	10
IEC/EN 60947-5-1 de	•			A600 - P600
Operating current AC	15			
		230V	A	3
		400V	A	1.9
On a ratio a surrant DC	240	500V	A	1.4
Operating current DC	,12	110V		
		11/11/	A	5.7
On eventing at a second to 20	10	1100		
Operating current DC	13			F 7
Operating current DC	213	24V	A	5.7
Operating current DC	213	24V 48V	А	2.9
Operating current DC	13	24V 48V 60V	A A	2.9 2.3
Operating current DC	213	24V 48V 60V 110V	A A A	2.9 2.3 1.25
Operating current DC	213	24V 48V 60V 110V 125V	A A A A	2.9 2.3 1.25 1.1
Operating current DC	213	24V 48V 60V 110V 125V 220V	A A A A	2.9 2.3 1.25 1.1 0.55
	213	24V 48V 60V 110V 125V	A A A A	2.9 2.3 1.25 1.1
Operations	213	24V 48V 60V 110V 125V 220V	A A A A A	2.9 2.3 1.25 1.1 0.55 0.2
Operations Mechanical life	213	24V 48V 60V 110V 125V 220V	A A A A A cycles	2.9 2.3 1.25 1.1 0.55 0.2 20000000
Operations Mechanical life Electrical life	213	24V 48V 60V 110V 125V 220V	A A A A A	2.9 2.3 1.25 1.1 0.55 0.2
Operations Mechanical life Electrical life Safety related data		24V 48V 60V 110V 125V 220V	A A A A A cycles	2.9 2.3 1.25 1.1 0.55 0.2 20000000
Operations Mechanical life Electrical life Safety related data	10d according to EN/ISO 13489-1	24V 48V 60V 110V 125V 220V 600V	A A A A A cycles cycles	2.9 2.3 1.25 1.1 0.55 0.2 20000000 1200000
Operations Mechanical life Electrical life Safety related data	10d according to EN/ISO 13489-1	24V 48V 60V 110V 125V 220V 600V	A A A A A cycles cycles	2.9 2.3 1.25 1.1 0.55 0.2 20000000 1200000
Operations Mechanical life Electrical life Safety related data Performance level B	10d according to EN/ISO 13489-1	24V 48V 60V 110V 125V 220V 600V	A A A A A cycles cycles	2.9 2.3 1.25 1.1 0.55 0.2 20000000 1200000 1200000 1200000
Operations Mechanical life Electrical life Safety related data Performance level B	10d according to EN/ISO 13489-1	24V 48V 60V 110V 125V 220V 600V	A A A A A cycles cycles	2.9 2.3 1.25 1.1 0.55 0.2 20000000 1200000

BF2510A230

BF2510A230



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Rated AC voltage at 5	0/60Hz		V	230
AC operating voltage				
	of 50/60Hz coil powered at 50Hz			
	pick-up	min	%Us	80
		min max	%Us %Us	80 110
	drop-out	IIIda	/003	110
		min	%Us	20
		max	%Us	55
	of 50/60Hz coil powered at 60Hz			
	, pick-up			
		min	%Us	85
		max	%Us	110
	drop-out			
		min	%Us	20
		max	%Us	55
AC average coil consu	•			
	of 50/60Hz coil powered at 50Hz			
		in-rush	VA	75
		holding	VA	9
	of 50/60Hz coil powered at 60Hz			
		in-rush	VA	70
		holding	VA	6.5
	of 60Hz coil powered at 60Hz			
		in-rush	VA	75
Discipation at holding	<20°C 5011-	holding	VA	9
Dissipation at holding Max cycles frequency	≤20 C 50HZ		W	2.5
Max cycles nequency Mechanical operation				
			ovelog/h	3600
			cycles/h	3600
Operating times	ontrol		cycles/h	3600
Operating times			cycles/h	3600
Operating times	in AC		cycles/h	3600
Operating times		min		
Operating times	in AC	min max	ms	8
Operating times	in AC	max		
Operating times	in AC Closing NO	max	ms	8
Operating times	in AC Closing NO	max	ms ms	8 24
Operating times	in AC Closing NO	max min	ms ms ms	8 24 10
Operating times	in AC Closing NO Opening NC	max min	ms ms ms	8 24 10 20 14
Operating times	in AC Closing NO Opening NC Closing NC	max min max min max	ms ms ms ms	8 24 10 20
Operating times	in AC Closing NO Opening NC	max min max min max	ms ms ms ms ms	8 24 10 20 14 28
Operating times	in AC Closing NO Opening NC Closing NC	max min max min max min	ms ms ms ms ms ms	8 24 10 20 14 28 7
Dperating times Average time for Us of	in AC Closing NO Opening NC Closing NC	max min max min max	ms ms ms ms ms	8 24 10 20 14 28
Dperating times Average time for Us co JL technical data	in AC Closing NO Opening NC Closing NC Opening NC	max min max min max min	ms ms ms ms ms ms	8 24 10 20 14 28 7
Dperating times Average time for Us co JL technical data	in AC Closing NO Opening NC Closing NC	max min max min max min max	ms ms ms ms ms ms ms ms	8 24 10 20 14 28 7 18
Dperating times Average time for Us co JL technical data	in AC Closing NO Opening NC Closing NC Opening NC	max min max min max min max at 480V	ms ms ms ms ms ms ms	8 24 10 20 14 28 7 18 21
Dperating times Average time for Us co JL technical data Full-load current (FLA)	in AC Closing NO Opening NC Closing NC Closing NC Opening NC Opening NC Opening NC	max min max min max min max	ms ms ms ms ms ms ms ms	8 24 10 20 14 28 7 18
Dperating times Average time for Us co JL technical data Full-load current (FLA)	in AC Closing NO Opening NC Closing NC Closing NC Opening NC Opening NC Opening NC Closing NC Closing NC Opening NC Closing NC Closi	max min max min max min max at 480V	ms ms ms ms ms ms ms	8 24 10 20 14 28 7 18 21
Dperating times Average time for Us co JL technical data Full-load current (FLA)	in AC Closing NO Opening NC Closing NC Closing NC Opening NC Opening NC Opening NC	max min max min max min max at 480V at 600V	ms ms ms ms ms ms ms as	8 24 10 20 14 28 7 18 21 17
Operating times Average time for Us co JL technical data	in AC Closing NO Opening NC Closing NC Closing NC Opening NC Opening NC Opening NC Closing NC Closing NC Opening NC Closing NC Closi	max min max min max min max at 480V at 600V	ms ms ms ms ms ms ms A A	8 24 10 20 14 28 7 18 21 17 2
Operating times Average time for Us co JL technical data Full-load current (FLA)	in AC Closing NO Opening NC Opening NC Closing NC Opening NC Opening NC opening NC opening NC Provide the opening AC motor	max min max min max min max at 480V at 600V	ms ms ms ms ms ms ms as	8 24 10 20 14 28 7 18 21 17
Dperating times Average time for Us co JL technical data Full-load current (FLA)	in AC Closing NO Opening NC Closing NC Closing NC Opening NC Opening NC Opening NC Closing NC Closing NC Opening NC Closing NC Closi	max min max min max min max at 480V at 600V	ms ms ms ms ms ms ms A A	8 24 10 20 14 28 7 18 21 17 2

BF2510A230

The characteristics described in this document are subject to updates or modifications at any time. The descriptions, technical and functional information, illustrations and instructions in this brochure are purely illustrative, and are consequently not contractually binding



BF2510A230 THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 25A, AC COIL 50/60HZ, 230VAC, 1NO AUXILIARY CONTACT

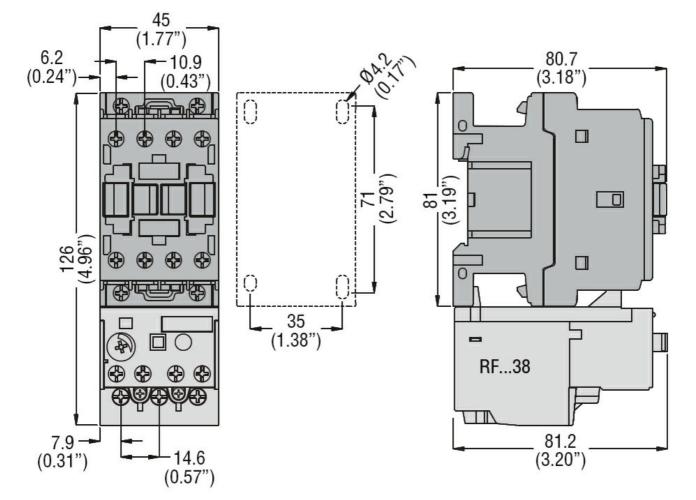
		220/230V	HP	7.5
		460/480V	HP	15
		575/600V	HP	15
General USE				
	Contactor			
		AC current	А	32
	Auxiliary contacts			
		AC voltage	V	600
		AC current	А	10
		DC voltage	V	250
		DC current	А	1
Short-circuit protect	ion fuse, 600V			
	High fault			
		Short circuit current	kA	100
		Fuse rating	А	60
		Fuse class		J
	Standard fault			
		Short circuit current	kA	5
		Fuse rating	А	100
Contact rating of aux	xiliary 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 & Protect	ction			
Pollution degree				3
-				

Dimensions [mm (in)]

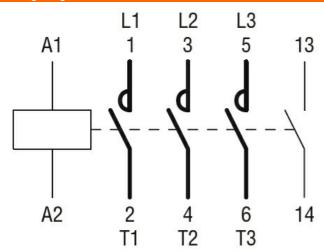
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Wiring diagrams



## Certifications and compliance

BF2510A230

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



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	cULus
	EAC
IM classification	

ETIM 8.0

EC000066 -Power contactor, AC switching