



Product designation			Power contactor
Product type designation Contact characteristics			BF25
Number of poles		Nr.	3
Rated insulation voltage Ui IEC/EN		V	690
Rated impulse withstand voltage Uimp		kV	6
Operational frequency			0
	min	Hz	25
	max	Hz	400
IEC Conventional free air thermal current Ith	max	A	32
Operational current le		7.	02
	AC-1 (≤40°C)	А	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)			-
1 1 ()	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	Α	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	Α	18

ENERGY AND AUTOMATION

THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 25A, DC COIL, 12VDC, 1NO AUXILIARY CONTACT

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	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 $L/R \le 15$ ms with 1 poles in series				
	≤24V	А	15	
	48V	А	13	
	75V	А	13	
	110V	А	2	
	220V	А	_	
IEC max current le in DC3-DC5 with $L/R \le 15$ ms with 2 poles in series				<u> </u>
	≤24V	А	18	
	48V	A	18	
	75V	A	16	
	110V	A	10	
	220V	A	2	
IEC max current le in DC3-DC5 with $L/R \le 15$ ms with 3 poles in series	2201		2	
	≤24V	А	22	
	48V	A	22	
	48V 75V	A	18	
	110V	A	15	
	220V	A	8	
IEC max current le in DC3-DC5 with $L/R \le 15$ ms with 4 poles in series	220 V	A	0	<u> </u>
IEC max current le in DC3-DC3 with E/R ≤ 13ms with 4 poles in series	≤24V	А		
	≤24∨ 48V	A	-	
	48V 75V	A	-	
	110V		_	
	220V	A	_	
	2200	<u>A</u> A	-	
Short-time allowable current for 10s (IEC/EN60947-1)		A	200	<u> </u>
Protection fuse		•	50	
	gG (IEC)	A	50	
	aM (IEC)	<u>A</u>	25	
Making capacity (RMS value)		А	250	
Breaking capacity at voltage				
	440V	Α	200	
	500V	A	184	
	690V	A	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	
	min	Ibin	0.8	



THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 25A, DC COIL, 12VDC, 1NO AUXILIARY CONTACT

Max number of wires	simultanaayudu aanaatabla	max	Ibin Nr.	0.74
Conductor section	simultaneously connectable		INF.	2
Conductor section	AWG/Kcmil			
	AWG/Remin	max		10
	Flexible w/o lug conductor section	Пах		10
		min	mm²	1
		max	mm²	6
	Flexible c/w lug conductor section			
	C C	min	mm²	1
		max	mm²	4
	Flexible with insulated spade lug conductor section			
		min	mm²	1
		max	mm²	4
Dower terminal protec	ation apporting 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 ra
				35mm
Weight			g	496
Conductor section				
	AWG/kcmil conductor section			
A 111		max		10
Auxiliary contact char	acteristics		•	4.0
Thermal current Ith			Α	10
IEC/EN 60947-5-1 de	*			A600 - P600
Operating current AC	15	0001		0
		230V	A	3
		400V	A	1.9
Operating ourrest DC	40	500V	A	1.4
Operating current DC	12	440\/	^	F 7
	40	110V	A	5.7
Operating current DC	13	0.07	^	F 7
		24V	A	5.7
		48V 60V	A	2.9
		60V 110V	A	2.3 1.25
		125V	A A	1.25
		125V 220V	A	0.55
		600V	A	0.2
Operations		000 0	A	V.2
Mechanical life			cycles	20000000
Electrical life			cycles	1200000
Safety related data			0,0103	1200000
	10d according to EN/ISO 13489-1			
		rated load	cycles	1200000
	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	nechanical load	cycles	2000000
	11	iconanica ilau	UY UICO	20000000
Mirror contats accord	ling to IEC/EN 609474-4-1			VAS
Mirror contats accord EMC compatibility	ling to IEC/EN 609474-4-1			yes yes

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BF2510D012 THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 25A, DC COIL, 12VDC,

**1NO AUXILIARY CONTACT** 

DC rated control voltage			V	12
DC operating voltage			v	12
	ck-up			
·		min	%Us	70
		max	%Us	125
dr	rop-out			
		min	%Us	10
		max	%Us	40
Average coil consumption	i ≤20°C			
		in-rush	W	5.4
		holding	W	5.4
Max cycles frequency				
Mechanical operation			cycles/h	3600
Operating times				
Average time for Us control				
in	AC Observe NO			
	Closing NO		ma	0
		min	ms	8 24
	Opening NO	max	ms	24
		min	ms	10
		max	ms	20
	Closing NC	Пах	mo	20
		min	ms	14
		max	ms	28
	Opening NC	-	-	-
		min	ms	7
		max	ms	18
in	DC			
	Closing NO			
		min	ms	54
		max	ms	66
	Opening NO			
		min	ms	14
		max	ms	17
UL technical data				
Full-load current (FLA) for	three-phase AC motor	( 400) (		<b>0</b> .4
		at 480V	A	21
Violdod mochanical norfer	rmanaa	at 600V	A	17
Yielded mechanical perfor	mance or single-phase AC motor			
10	n single-phase AC moloi	110/120V	HP	2
		230V	HP	3
fo	r three-phase AC motor	230 V	1.0	0
10		200/208V	HP	7.5
		220/230V	HP	7.5
		460/480V	HP	15
		575/600V	HP	15
General USE				-
	ontactor			
-		AC current	А	32
<u></u>	uxiliary contacts	-		
A				
A		AC voltage	V	600

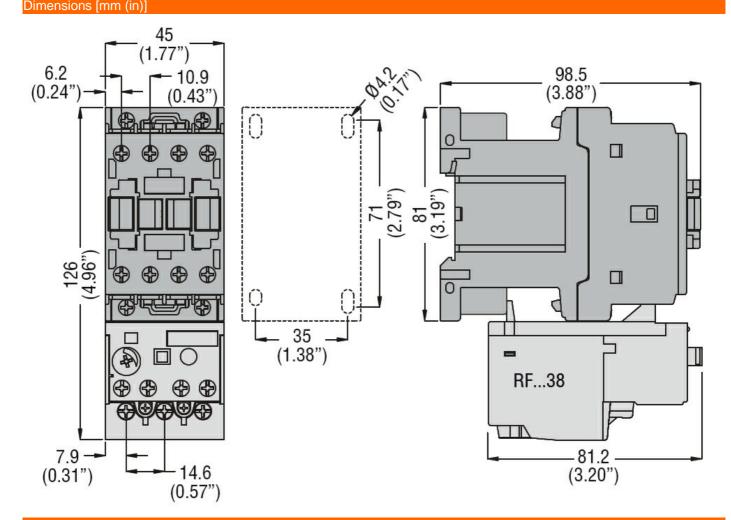
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BF2510D012 THREE-POLE CONTACTOR, IEC OPERATING C

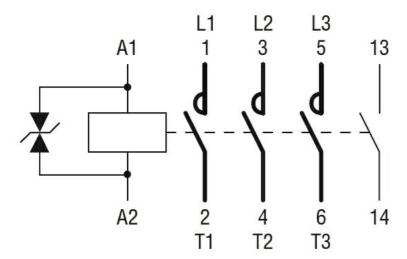
CURRENT IE (AC	3) = 25A, DC COIL, 12VDC,
	1NO AUXILIARY CONTACT

		DC voltage	V	250
		DC current	А	1
Short-circuit protection	n 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 auxil	iary 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 & Protecti	on			
Pollution degree				3
Dimensions [mm (in)]				



### 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





Product designation Product type designation			Power contactor BF25
Contact characteristics			DF20
Number of poles		Nr.	3
Rated insulation voltage Ui IEC/EN		V	<u> </u>
Rated impulse withstand voltage Uimp		kV	6
Operational frequency		ΚV	0
Operational frequency	min	Hz	25
	max	Hz	400
IEC Conventional free air thermal current Ith	IIIdA	A	32
Operational current le			52
Operational current le	AC-1 (≤40°C)	А	32
	AC-1 (≤55°C)	A	26
	AC-1 (≤55°C) 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)	70 + (1001)		10
	230V	kW	7
	400V	kW	, 12.5
	400V 415V	kW	13.4
	440V	kW	13.4
	500V	kW	15
	690V	kW	10
Rated operational power AC-1 (T≤40°C)	0001		••
	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	А	20
	48V	A	18
	75V	A	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	A	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	А	23
	150	1.	23

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THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 25A, DC COIL, 24VDC, 1NO AUXILIARY CONTACT

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	0001/	•	10	
	220V	A	12	
IEC max current le in DC1 with $L/R \le 1$ ms with 4 poles in series				
	≤24V	Α	-	
	48V	А	-	
	75V	А	-	
	110V	А	-	
	220V	А	_	
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series				<u> </u>
•	≤24V	А	15	
	48V	A	13	
	75V	A	13	
	110V	A	2	
	220V	A		
	2201	A	-	
IEC max current le in DC3-DC5 with L/R $\leq$ 15ms with 2 poles in series		_		
	≤24V	A	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	А	22	
	75V	A	18	
	110V	A	15	
	220V	A	8	
IEC may summat be in DC2 DC5 with $1/D < 45$ may with 4 malas in series	2200	A	0	
IEC max current le in DC3-DC5 with $L/R \le 15$ ms with 4 poles in series	-0.0.4			
	≤24V	A	-	
	48V	А	-	
	75V	А	-	
	110V	А	-	
	220V	Α	-	
Short-time allowable current for 10s (IEC/EN60947-1)		А	200	
Protection fuse				
	gG (IEC)	А	50	
	aM (IEC)	A	25	
Making capacity (RMS value)	un (120)	A	250	
Breaking capacity at voltage		А	200	
breaking capacity at voltage	44014	۸	200	
	440V	A	200	
	500V	A	184	
	690V	A	102	
Resistance per pole (average value)		mΩ	2.5	
Power dissipation per pole (average value)				
	Ith	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	Пал			
	min	Nim	0.0	
	min	Nm	0.8	
	max	Nm	1	
	min	lbin	0.8	



THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 25A, DC COIL, 24VDC, 1NO AUXILIARY CONTACT

BF2510D024

lbin 0.74 max Max number of wires simultaneously connectable Nr. 2 Conductor section AWG/Kcmil max 10 Flexible w/o lug conductor section 1 min mm² mm² 6 max Flexible c/w lug conductor section 1 min mm² max mm² 4 Flexible with insulated spade lug conductor section mm² 1 min 4 max mm² IP20 when Power terminal protection according to IEC/EN 60529 properly wired Mechanical features Operating position Vertical plan normal ±30° allowable Screw / DIN rail Fixing 35mm Weight 500 g Conductor section AWG/kcmil conductor section 10 max Auxiliary contact characteristics Thermal current Ith А 10 IEC/EN 60947-5-1 designation A600 - P600 Operating current AC15 230V А 3 400V 1.9 А 500V А 1.4 Operating current DC12 110V А 5.7 **Operating current DC13** 24V А 5.7 48V А 2.9 60V A 2.3 110V А 1.25 125V А 1.1 220V А 0.55 600V 0.2 А Operations Mechanical life 20000000 cycles Electrical life 1200000 cycles Safety related data Performance level B10d according to EN/ISO 13489-1 1200000 rated load cycles mechanical load 20000000 cycles Mirror contats according to IEC/EN 609474-4-1 yes EMC compatibility yes DC coil operating

BF2510D024

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BF2510D024 THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 25A, DC COIL, 24VDC,

**1NO AUXILIARY CONTACT** 

DC rated control voltage	ge			V	24
DC operating voltage					
	pick-up				
			min	%Us	70
			max	%Us	125
	drop-out				
			min	%Us	10
			max	%Us	40
Average coil consump	tion $\leq 20^{\circ}$ C				
			in-rush	W	5.4
			holding	W	5.4
Max cycles frequency				ev (el e e /b	2000
Mechanical operation				cycles/h	3600
Operating times	antrol				
Average time for Us co	in AC				
	INAC	Closing NO			
			min	ms	8
					24
		Opening NO	max	ms	<b>۲</b>
			min	ms	10
			max	ms	20
		Closing NC	Παλ	1113	20
			min	ms	14
			max	ms	28
		Opening NC	тах	mo	20
		oponing reo	min	ms	7
			max	ms	18
	in DC			_	
	-	Closing NO			
		5	min	ms	54
			max	ms	66
		Opening NO			
			min	ms	14
			max	ms	17
UL technical data					
Full-load current (FLA)	for three-phase AC	motor			
			at 480V	А	21
			at 600V	А	17
Yielded mechanical pe					
	for single-phase A	C motor			
			110/120V	HP	2
			230V	HP	3
	for three-phase A0	C motor			
			200/208V	HP	7.5
			220/230V	HP	7.5
			460/480V	HP	15
<u> </u>			575/600V	HP	15
General USE	0				
	Contactor		• •		
	A 111		AC current	A	32
	Auxiliary contacts			N /	<u> </u>
			AC voltage	V	600
			AC current	A	10

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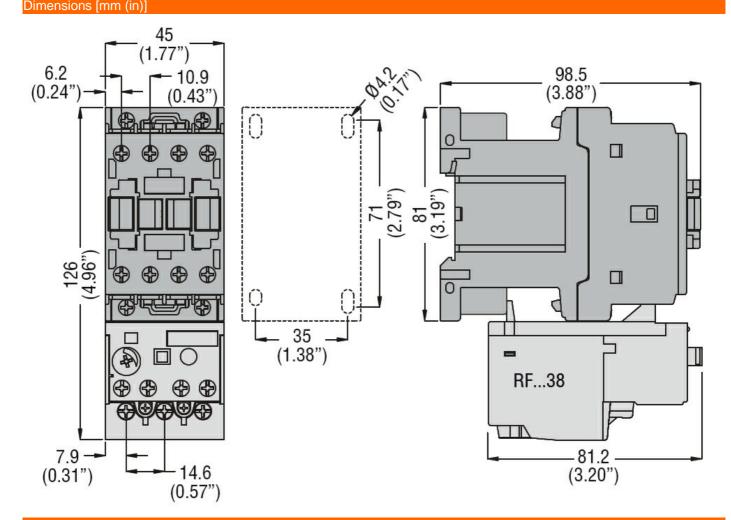


THREE-POLE CONTACTOR, IEC OPERATING CURRENT

IE (AC3) = 25A, DC COIL, 24VDC,
1NO AUXILIARY CONTACT

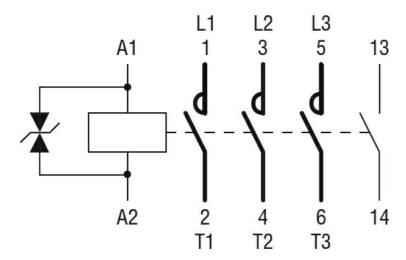
BF2510D024

		DC voltage	V	250
		DC current	А	1
Short-circuit protection	n 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 auxil	iary 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 & Protecti	on			
Pollution degree				3
Dimensions (mm (in))				



### 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





Product designation Product type designation			Power contactor BF25
Contact characteristics			DI 23
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)	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	А	20
	48V	А	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			
	≤24V	A	23
	48V	A	23
	75V	A	23
	110V	A	16
	220V	A	1
IEC max current le in DC1 with $L/R \le 1$ ms with 3 poles in series		_	
	≤24V	A	23
	48V	A	23
	75V	A	23
	110V	А	18

ENERGY AND AUTOMATION

**BF2510D048** THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 25A, DC COIL, 48VDC, 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	A	_
IEC max current le in DC3-DC5 with L/R $\leq$ 15ms with 1 poles in series			
	≤24V	A	15
	48V	A	13
	75V	A	13
	110V	A	2
	220V	A	_
IEC max current le in DC3-DC5 with L/R $\leq$ 15ms with 2 poles in series	<2417	۸	4.0
	≤24V 48V	A	18
	48V 75V	A A	18 16
	110V	A	10
	220V	A	2
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series	2200	~	2
	≤24V	А	22
	48V	A	22
	75V	A	18
	110V	A	15
	220V	A	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)	А	50
	aM (IEC)	Α	25
Making capacity (RMS value)		А	250
Breaking capacity at voltage			
	440V	A	200
	500V	А	184
	690V	<u>A</u>	102
Resistance per pole (average value)		mΩ	2.5
Power dissipation per pole (average value)			0.0
	Ith	W	2.6
	AC3	W	1.6
Tightening torque for terminals		Nina	1 5
	min	Nm	1.5
	max	Nm	1.8
	min	lbin Ibin	1.1
Tightoning torque for coil terminal	max	Ibin	1.5
Tightening torque for coil terminal	min	Nm	0.8
	min		0.8 1
	max	Nm	1

BF2510D048

lbin

min

0.8



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

BF2510D048

Max number of wires	simultaneously connectable	max	Ibin Nr.	0.74
Conductor section			INF.	2
Conductor section	AWG/Kcmil			
	AWG/RCIIII	may		10
	Flexible w/o lug conductor section	max		10
	Flexible w/o lug conductor section	min	mm²	1
		max	mm²	6
	Flexible c/w lug conductor section	IIIdA	111111	0
		min	mm²	1
		max	mm²	4
	Flexible with insulated spade lug conductor sectior		111111	4
	Flexible with insulated space lug conductor section	min	mm²	1
		max	mm²	4
		max	111111	IP20 when
Power terminal protect	ction according to IEC/EN 60529			properly wired
Mechanical features				property wired
Operating position				
		normal		Vertical plan
		allowable		±30°
				Screw / DIN rai
Fixing				35mm
Weight			g	500
Conductor section			3	
	AWG/kcmil conductor section			
		max		10
Auxiliary contact chara	acteristics	Шах		10
Thermal current Ith			А	10
IEC/EN 60947-5-1 de	esignation			A600 - P600
Operating current AC	•			
		230V	А	3
		400V	A	1.9
		500V	A	1.4
Operating current DC	12	0001		
operating earliert 20		110V	А	5.7
Operating current DC	13	1100	<i>,</i>	0.1
		24V	А	5.7
		48V	A	2.9
		48V 60V	A	2.3
		110V	A	1.25
		125V	A	1.1
		220V	A	0.55
		600V	A	0.2
Operations			<i>·</i> .	
Mechanical life			cycles	20000000
Electrical life			cycles	1200000
Safety related data			0,000	1200000
	0d according to EN/ISO 13489-1			
Performance level R1	100 0001011g to E14/100 10+03-1	rated load	cycles	1200000
Performance level B1		raieu iudu	Cycles	1200000
Performance level B1			oveloe	2000000
		mechanical load	cycles	2000000
	ing to IEC/EN 609474-4-1		cycles	20000000 yes yes

BF2510D048



BF2510D048 THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 25A, DC COIL, 48VDC,

**1NO AUXILIARY CONTACT** 

					40
DC rated control volta	ge			V	48
DC operating voltage	a la la sua				
	pick-up			0/11-	70
			min	%Us	70
	<u> </u>		max	%Us	125
	drop-out			o ( 1 1	10
			min	%Us	10
			max	%Us	40
Average coil consump	otion ≤20°C				
			in-rush	W	5.4
			holding	W	5.4
Max cycles frequency					
Mechanical operation				cycles/h	3600
Operating times					
Average time for Us c	ontrol				
	in AC				
		Closing NO			
			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	ms	7
			max	ms	18
	in DC				
		Closing NO			
		5	min	ms	54
			max	ms	66
		Opening NO			
		513 5	min	ms	14
			max	ms	17
UL technical data					
Full-load current (FLA	) for three-phase AC	motor			
	,		at 480V	А	21
			at 600V	A	17
Yielded mechanical pe	erformance				
	for single-phase A	C motor			
			110/120V	HP	2
			230V	HP	3
	for three-phase A	Cmotor	2001		~
	ior unee-phase A		200/208V	HP	7.5
			200/208V 220/230V	HP	7.5
			460/480V	HP	15
			460/480V 575/600V	HP	15
			575/6007		10
General USE	Contestar				
General USE	Contactor			^	22
General USE			AC current	A	32
General USE	Contactor Auxiliary contacts				
General USE			AC current AC voltage AC current	A V A	32 600 10

BF2510D048

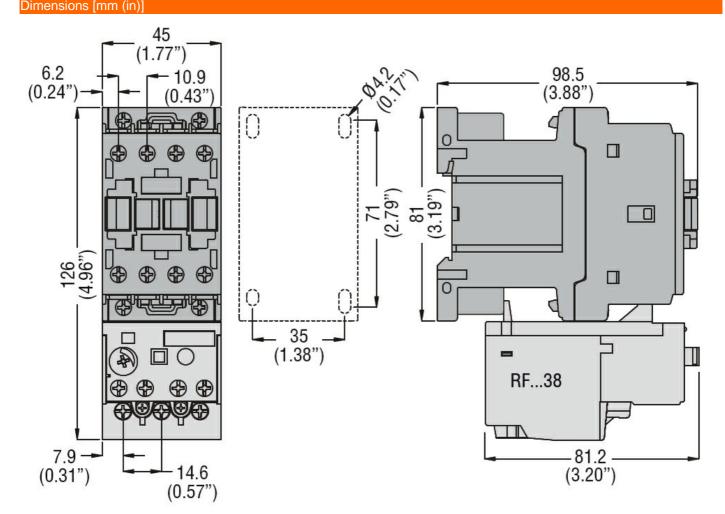


THREE-POLE CONTACTOR, IEC OPERATING CURRENT II

E (A	AC3) = 25A,	DC COIL,	48VDC,
	1NO AUX	ILIARY CO	ONTACT

BF2510D048

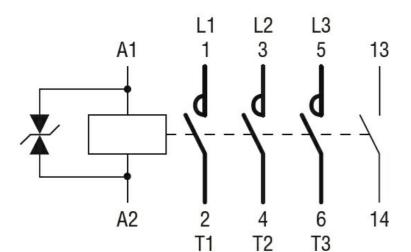
		DC voltage	V	250
		DC current	А	1
Short-circuit protectio	n fuse, 600V			
	High fault			
		Short circuit current	kA	100
		Fuse rating	А	60
		Fuse class		J
	Standard fault			
		Short circuit current	kA	5
		Fuse rating	А	100
Contact rating of auxi	liary contacts according to UL			A600 - P600
Ambient conditions				
Temperature				
	Operating temperature			
		min	°C	-50
		max	°C	70
	Storage temperature			
		min	°C	-60
		max	°C	80
Max altitude			m	3000
Resistance & Protect	ion			
Pollution degree				3
Dimensions (mm (in))				



### Wiring diagrams



BF2510D048 THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 25A, DC COIL, 48VDC, **1NO AUXILIARY CONTACT** 



# 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





Decision for the second second			D
Product designation			Power contacto
Product type designation Contact characteristics			BF25
Number of poles		Nr.	3
		V	<u> </u>
Rated insulation voltage Ui IEC/EN		kV	6
Rated impulse withstand voltage Uimp		KV	0
Operational frequency			05
	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)	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	А	6
	220V	A	_
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	A	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

ENERGY AND AUTOMATION

**BF2510D060** THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 25A, DC COIL, 60VDC, 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	А	13	
	75V	А	13	
	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	A	18	
	75V	A	16	
	110V	A	10	
	220V	A	2	
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series	2201	Λ	2	
The max current is in Des-Des with $L/L \ge 15005$ with 5 poiss in series	≤24V	А	22	
	48V	A	22	
	40V 75V	A	22 18	
	110V		15	
		A		
IFO menu summent is in DO2 DO5 with 1/D < 45mm with 4 melos in series	220V	A	8	
IEC max current le in DC3-DC5 with $L/R \le 15$ ms with 4 poles in series	<0.4) /	^		
	≤24V	A	-	
	48V	A	-	
	75V	A	-	
	110V	A	-	
	220V	A	_	
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)		Α	250	
Breaking capacity at voltage				
	440V	А	200	
	500V	А	184	
	690V	Α	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	lbin	1.1	
	max	Ibin	1.5	
Tightening torque for coil terminal				
	min	Nm	0.8	
	max	Nm	1	
	min	Ibin	0.8	
			510	



THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 25A, DC COIL, 60VDC, 1NO AUXILIARY CONTACT

BF2510D060

Max number of wires	simultaneously connectable	max	Ibin Nr.	0.74
Conductor section			INF.	2
Conductor section	AWG/Kcmil			
	AWG/KCIIII	moy		10
	Flexible w/o lug conductor section	max		10
	Flexible w/o lug conductor section	min	mm²	1
			mm²	6
	Flexible c/w lug conductor section	max	111111	0
	Thexible C/Wing conductor section	min	mm²	1
		max	mm²	4
	Elevible with inculated spade lug conductor section	IIIdA	111111	4
	Flexible with insulated spade lug conductor section	min	mm²	1
		min max	mm²	4
		max		IP20 when
Power terminal protect	ction according to IEC/EN 60529			properly wired
Mechanical features				propeny wired
Operating position				
		normal		Vertical plan
		allowable		±30°
		allowable		Screw / DIN rai
Fixing				35mm
Weight			g	496
Conductor section			9	400
	AWG/kcmil conductor section			
	AWG/KCITII CONductor Section	max		10
Auxiliary contact char	actoristics	IIIdX		10
Thermal current Ith			А	10
IEC/EN 60947-5-1 de	signation		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	A600 - P600
Operating current AC	-			7,000 1,000
operating ourrent / to		230V	А	3
		400V	A	1.9
		400V 500V	A	1.4
Operating current DC	12	300 V	Λ	1.4
	12	110V	А	5.7
Operating current DC	10	1100	A	5.7
Operating current DC	13	241/	۸	F 7
		24V 48V	A	5.7
		48V 60V	A	2.9
			А	2.3
			۸	1 25
		110V	A	1.25
		110V 125V	А	1.1
		110V 125V 220V	A A	1.1 0.55
Operations		110V 125V	А	1.1
		110V 125V 220V	A A A	1.1 0.55 0.2
Mechanical life		110V 125V 220V	A A A cycles	1.1 0.55 0.2 20000000
Mechanical life Electrical life		110V 125V 220V	A A A	1.1 0.55 0.2
Operations Mechanical life Electrical life Safety related data		110V 125V 220V	A A A cycles	1.1 0.55 0.2 20000000
Mechanical life Electrical life Safety related data	10d according to EN/ISO 13489-1	110V 125V 220V 600V	A A A cycles cycles	1.1 0.55 0.2 20000000 1200000
Mechanical life Electrical life Safety related data	-	110V 125V 220V 600V	A A cycles cycles	1.1 0.55 0.2 20000000 1200000 1200000
Mechanical life Electrical life Safety related data Performance level B1	m	110V 125V 220V 600V	A A A cycles cycles	1.1 0.55 0.2 20000000 1200000 1200000 20000000
Mechanical life Electrical life Safety related data Performance level B1	-	110V 125V 220V 600V	A A cycles cycles	1.1 0.55 0.2 20000000 1200000 1200000

OVE electric ENERGY AND AUTOMATION

BF2510D060 THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 25A, DC COIL, 60VDC,

**1NO AUXILIARY CONTACT** 

					<u></u>
DC rated control voltage	je			V	60
DC operating voltage	niekun				
	pick-up		min	%Us	70
				%Us %Us	125
	drop-out		max	/003	125
	ulop-out		min	%Us	10
			max	%Us	40
Average coil consumpt	tion ≤20°C			,	
5 1			in-rush	W	5.4
			holding	W	5.4
Max cycles frequency					
Mechanical operation				cycles/h	3600
Operating times					
Average time for Us co	ontrol				
	in AC				
		Closing NO			
			min	ms	8
			max	ms	24
		Opening NO			
			min	ms	10
			max	ms	20
		Closing NC			
			min	ms	14
			max	ms	28
		Opening NC			7
			min	ms ms	7 18
	in DC		max	1115	10
	III DC	Closing NO			
			min	ms	54
			max	ms	66
		Opening NO	max	me	
		- p	min	ms	14
			max	ms	17
UL technical data					
Full-load current (FLA)	for three-phase AC n	notor			
			at 480V	А	21
			at 600V	А	17
Yielded mechanical pe	rformance				
	for single-phase AC	motor			
			110/120V	HP	2
			230V	HP	3
	for three-phase AC	motor			
			200/208V	HP	7.5
			220/230V	HP	7.5
			460/480V	HP	15
0			575/600V	HP	15
General USE	Quality				
	Contactor			^	22
	Auxilian contact		AC current	A	32
	Auxiliary contacts		AC valtage	17	600
			AC voltage AC current	V A	600 10
			AC current	A	10

BF2510D060

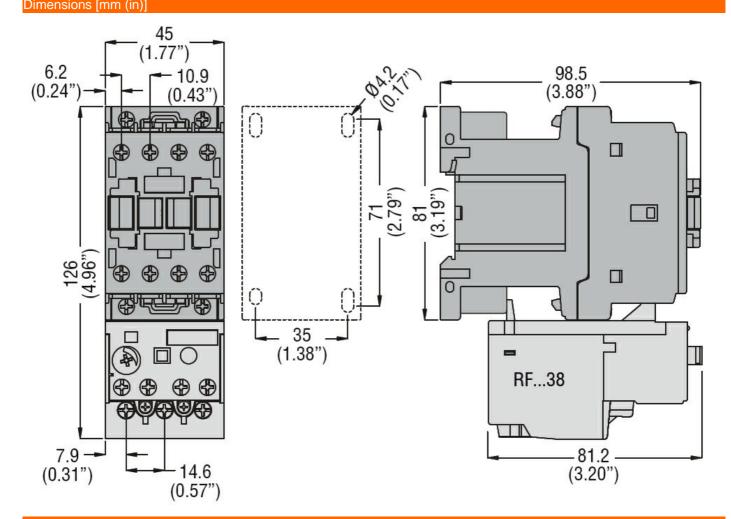


THREE-POLE CONTACTOR, IEC OPERATING CURRENT I

E (AC3) = 25A, DC COIL, 60VDC,
1NO AUXILIARY CONTACT

**BF2510D060** 

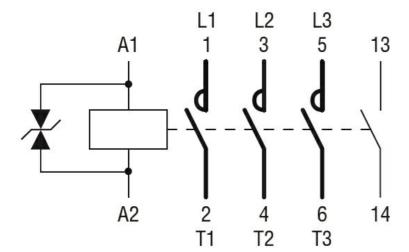
		DC voltage	V	250
		DC current	А	1
Short-circuit protectio	n fuse, 600V			
	High fault			
	-	Short circuit current	kA	100
		Fuse rating	А	60
		Fuse class		J
	Standard fault			
		Short circuit current	kA	5
		Fuse rating	А	100
Contact rating of auxil	liary contacts according to UL			A600 - P600
Ambient conditions				
Temperature				
	Operating temperature			
		min	°C	-50
		max	°C	70
	Storage temperature			
		min	°C	-60
		max	°C	80
Max altitude			m	3000
Resistance & Protect	ion			
Pollution degree				3
Dimensions (mm (in))				



### Wiring diagrams



BF2510D060 THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 25A, DC COIL, 60VDC, **1NO AUXILIARY CONTACT** 



# 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





Deschust de sign stiere			Device contracts
Product designation			Power contacto
Product type designation			BF25
Contact characteristics		N La	0
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		A	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)	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
EC 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	A	23
	75V	A	23
	110V	A	16
	220V	A	1
IEC max current le in DC1 with $L/R \le 1$ ms with 3 poles in series	2201	<i>/</i> \	•
	≤24V	А	23
	48V	A	23
	48V 75V	A	23
	110V	A	
	1100	А	18



**BF2510D110** THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 25A, DC COIL, 110VDC, 1NO AUXILIARY CONTACT

220V

12

А

	220V	A	12
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series			
	≤24V	А	_
	48V	A	_
	75V	A	
	110V	A	-
			_
	220V	A	_
IEC max current le in DC3-DC5 with $L/R \le 15$ ms with 1 poles in series			
	≤24V	Α	15
	48V	Α	13
	75V	А	13
	110V	А	2
	220V	А	_
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series			
	≤24V	۸	18
		A	
	48V	A	18
	75V	А	16
	110V	А	10
	220V	Α	2
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series			
	≤24V	А	22
	48V	A	22
	75V	A	18
	110V	A	15
	220V	A	8
IEC max current le in DC3-DC5 with $L/R \le 15$ ms with 4 poles in series			
	≤24V	A	-
	48V	Α	_
	75V	Α	-
	110V	А	_
	220V	А	-
Short-time allowable current for 10s (IEC/EN60947-1)		А	200
Protection fuse			
	gG (IEC)	А	50
	aM (IEC)	<u>A</u>	25
Making capacity (RMS value)		Α	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
The first for the second for the second second	AC3	W	1.6
Tightening torque for terminals			
	min	Nm	1.5
	max	Nm	1.8
	min	lbin	1.1
	max	lbin	1.5
Tightening torque for coil terminal			
	min	Nm	0.8
	max	Nm	1
	min	lbin	0.8



THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 25A, DC COIL, 110VDC, 1NO AUXILIARY CONTACT

BF2510D110

lbin 0.74 max Max number of wires simultaneously connectable Nr. 2 Conductor section AWG/Kcmil max 10 Flexible w/o lug conductor section min mm² 1 mm² 6 max Flexible c/w lug conductor section 1 min mm² max mm² 4 Flexible with insulated spade lug conductor section mm² 1 min 4 max mm² IP20 when Power terminal protection according to IEC/EN 60529 properly wired Mechanical features Operating position Vertical plan normal ±30° allowable Screw / DIN rail Fixing 35mm Weight 492 g Conductor section AWG/kcmil conductor section 10 max Auxiliary contact characteristics Thermal current Ith А 10 IEC/EN 60947-5-1 designation A600 - P600 Operating current AC15 230V А 3 400V 1.9 А 500V А 1.4 Operating current DC12 110V А 5.7 **Operating current DC13** 24V А 5.7 48V А 2.9 60V А 2.3 110V А 1.25 125V А 1.1 220V А 0.55 600V 0.2 А Operations Mechanical life 20000000 cycles Electrical life 1200000 cycles Safety related data Performance level B10d according to EN/ISO 13489-1 1200000 rated load cycles mechanical load 20000000 cycles Mirror contats according to IEC/EN 609474-4-1 yes EMC compatibility yes DC coil operating

BF2510D110



BF2510D110 THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 25A, DC COIL, 110VDC,

**1NO AUXILIARY CONTACT** 

DC rated control voltag	1e			V	110
DC operating voltage	,0			v	110
2 e operaning reitage	pick-up				
	rr		min	%Us	70
			max	%Us	125
	drop-out				
	·		min	%Us	10
			max	%Us	40
Average coil consumption	tion ≤20°C				
			in-rush	W	5.4
			holding	W	5.4
Max cycles frequency					
Mechanical operation				cycles/h	3600
Operating times					
Average time for Us co	ontrol				
	in AC				
		Closing NO			
		-	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	ms	7
			max	ms	18
	in DC				
		Closing NO			
			min	ms	54
			max	ms	66
		Opening NO			
			min	ms	14
			max	ms	17
UL technical data					
Full-load current (FLA)	for three-phase AC	motor			
			at 480V	А	21
			at 600V	А	17
Yielded mechanical pe					
	for single-phase A	C motor			
			110/120V	HP	2
			230V	HP	3
	for three-phase AC	C motor			
			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	А	10

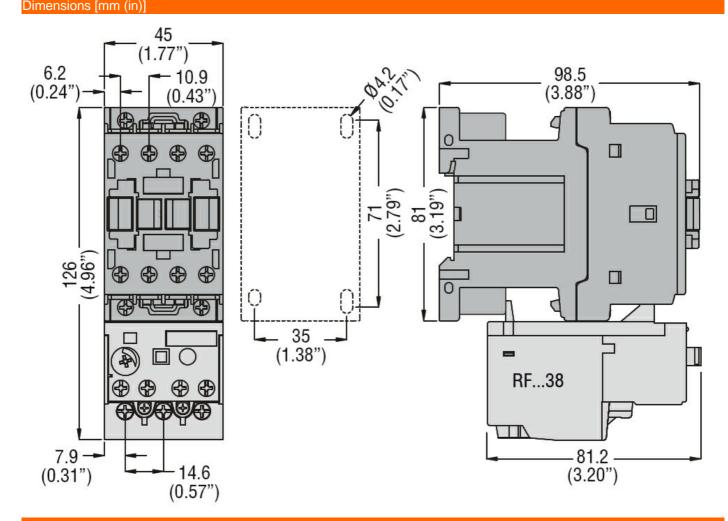
BF2510D110



BF2510D110 THREE-POLE CONTACTOR, IEC OPERATING CURRENT

IE (AC3) = 25A, DC COIL, 110VDC,
1NO AUXILIARY CONTACT

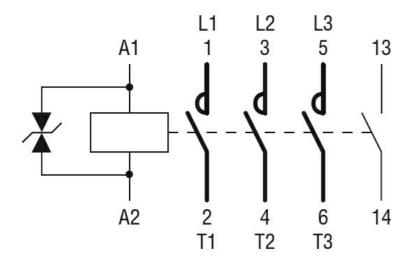
		DC voltage	V	250
		DC current	А	1
Short-circuit protectio	n fuse, 600V			
	High fault			
	-	Short circuit current	kA	100
		Fuse rating	А	60
		Fuse class		J
	Standard fault			
		Short circuit current	kA	5
		Fuse rating	А	100
Contact rating of auxil	liary contacts according to UL			A600 - P600
Ambient conditions				
Temperature				
	Operating temperature			
		min	°C	-50
		max	°C	70
	Storage temperature			
		min	°C	-60
		max	°C	80
Max altitude			m	3000
Resistance & Protect	ion			
Pollution degree				3
Dimensions (mm (in))				



### Wiring diagrams



**BF2510D110** THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 25A, DC COIL, 110VDC, 1NO AUXILIARY CONTACT



# 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





Contact characteristicsNumber of polesNr. 3Rated insulation voltage UI IEC/ENVRated insulation voltage UIIEC/ENVGenerational frequencyminHz400IEC Conventional frequencyminHz400IEC Conventional free air thermal current IthA3232Operational current leAC-1 (≤40°C)AC-1 (≤40°C)AAC-3 (≤440V ≤56°C)AAC-3 (≤440V ≤56°C)AAC-3 (≤440V ≤56°C)AAC-4 (400V)ARated operational power AC-3 (T≤55°C)230V230VkW4000kW13.44000kW5000kW4000VkW13.45000VkW500VkW14.5kW890VkW15690V230V800VkW16200VkW17400VkW18100VkW16200VA1616200V16200VA1718100V1919100V101101102102103103104104105105105106107107118<	Product designation Product type designation			Power contactor BF25	
Number of polesNr.3Rated insulation voltage Ui IEC/ENV690Operational frequencyminHz25Operational frequencyminHz400IEC Conventional free air thermal current lthA32Operational current leAC-1 (\$40°C)A32AC-1 (\$55°C)A26AC-1 (\$40°V)A10Rated operational power AC-3 (T<55°C)				BI 25	
Rated insulation voltage Ui IEC/EN         V         690           Rated impulse withstand voltage Uimp         KV         6           Operational frequency         min         Hz         25           IEC Conventional frequency         min         Hz         25           Deprational current le         A         32         00           Operational current le         AC-1 (≤40°C)         A         32           AC-1 (≤70°C)         A         23         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         13.4           440V         KW         13.4         440V         KW         13.4           500V         kW         11         10         10           Rated operational power AC-1 (T≤40°C)         230V         kW         12           400V         kW         12         690V         kW         13.4           500V         kW         12         690V         kW         13.4           400V         kW         12         690V         kW			Nr.	3	
Rated impulse withstand voltage Uimp         kV         6           Operational frequency         min         Hz         25           max         H2         400           IEC Conventional free air thermal current lth         A         32           Operational current le         AC-1 (≤40°C)         A         32           AC-1 (≤55°C)         A         26         AC-1 (≤55°C)         A         25           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         13.4           S00V         kW         13.4         500V         kW         13.4           S00V         kW         13.4         500V         kW         12           Rated operational power AC-1 (T≤40°C)         230V         kW         12           2400V         kW         21         500V         kW         26           690V         kW         21         500V         kW         21           500V         kW         21         50V         kW         36           IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series         22V </td <td></td> <td></td> <td></td> <td></td>					
Operational frequency       min       Hz       25         max       Hz       400         IEC Conventional free air thermal current lth       A       32         Operational current le       AC-1 (≤40°C)       A       32         AC-1 (≤55°C)       A       26       AC-1 (≤55°C)       A       25         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       500V       kW       13.4       500V       kW       12         690V       kW       11       8       690V       kW       12         400V       kW       21       500V       kW       22         690V       kW       12       400V       40V       kW       28         690V       kW       26       690V       kW       26       220V       A       18         75V       A       18       75V       A       18       75V       A       18         10V       A       6       220V       A       1       23					
$\begin{array}{c c c c c c c c c c c c c c c c c c c $					
max         Hz         400           IEC Conventional rere air thermal current lth         A         32           Operational current le         AC-1 (st0°C)         A         32           AC-1 (st5°C)         A         26         AC-1 (st6°C)         A         23           AC-1 (st6°C)         A         23         AC-3 (st40v s56°C)         A         25           AC-3 (st40v s56°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         500V         kW         15         690V         kW         15           690V         kW         11         S00V         kW         12         400V         kW         12           400V         kW         21         500V         kW         12         60V         kW         26           690V         kW         12         40V         48V         A         18         75V         A         18           75V         A         18         75V         A         18         110V         A         6		min	Hz	25	
Operational current le       AC-1 (s40°C)       A       32         AC-1 (s55°C)       A       26         AC-3 (s440V s55°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       15       690V       kW       12         400V       kW       21       500V       kW       21         500V       kW       15       690V       kW       26         690V       kW       12       400V       kW       21         500V       kW       21       500V       kW       26         690V       kW       36       220V       kW       36         IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series       \$24V       A       23         1W       A       6       220V       A       -         IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series       \$24V       A       23         1W       A					
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	IEC Conventional free air thermal current Ith		А	32	
$\begin{array}{ccccc} AC-1 (\$55^{\circ}C) & A & 26 \\ AC-1 (\$70^{\circ}C) & A & 23 \\ AC-3 (\$400) \\ AC-3 (\$400) & A & 10 \\ \hline \\ \begin{tabular}{lllllllllllllllllllllllllllllllllll$	Operational current le				
$\begin{array}{ccccc} AC-1 (\$55^{\circ}C) & A & 26 \\ AC-1 (\$70^{\circ}C) & A & 23 \\ AC-3 (\$400) \\ AC-3 (\$400) & A & 10 \\ \hline \\ \begin{tabular}{lllllllllllllllllllllllllllllllllll$		AC-1 (≤40°C)	А	32	
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       15       690V       kW       11         Rated operational power AC-1 (T≤40°C)       230V       kW       12         400V       kW       21       500V       kW       21         500V       kW       21       500V       kW       26         690V       kW       26       690V       kW       36         IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series       224V       A       20         48V       A       18       75V       A       18         110V       A       6       220V       A       -         IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series       ≤24V       A       23         110V       A       16       220V       A       1         IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series       ≤24V       A			А	26	
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       440V       kW       13.4         440V       kW       13.4       500V       kW       15         690V       kW       15       690V       kW       12         400V       kW       21       500V       kW       21         500V       kW       26       690V       kW       26         690V       kW       36       220V       A       18         11CC max current le in DC1 with L/R ≤ 1ms with 1 poles in series       ≤24V       A       20         48V       A       18       110V       A       6         220V       A       -       16       220V       A       23         110V       A       16       220V       A       1       16         220V       A       1       11       11       16       220V       A       1         IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series       ≤24V       A       23			А	23	
Rated operational power AC-3 (T≤55°C)230VkW7400VkW12.5415VkW13.4500VkW15690VkW11Rated operational power AC-1 (T≤40°C)230VkW230VkW230VkW12690VkW1220VkW1220VkW1220VkW1224VA2048VA1875VA18110VA6220VA-IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series≤24VA23110VA16220VA1IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series≤24VA23110VA16220VA11IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series≤24VA23100VA23110VA16220VA1IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series≤24VA23 <td colsp<="" td=""><td></td><td>AC-3 (≤440V ≤55°C)</td><td>А</td><td>25</td></td>	<td></td> <td>AC-3 (≤440V ≤55°C)</td> <td>А</td> <td>25</td>		AC-3 (≤440V ≤55°C)	А	25
$\begin{array}{cccccccccccccccccccccccccccccccccccc$		AC-4 (400V)	А	10	
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	Rated operational power AC-3 (T≤55°C)				
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$		230V	kW	7	
$ \begin{array}{c} 440 \vee & k \vee & 13.4 \\ 500 \vee & k \vee & 15 \\ 690 \vee & k \vee & 11 \end{array} \\ \hline Rated operational power AC-1 (T \leq 40 ^{\circ}C) & & & & & & & \\ 230 \vee & k \vee & 21 \\ 400 \vee & k \vee & 21 \\ 500 \vee & k \vee & 26 \\ 690 \vee & k \vee & 36 \end{array} \\ \hline IEC max current le in DC1 with L/R \leq 1 ms with 1 poles in series & & & & & \\ \hline IEC max current le in DC1 with L/R \leq 1 ms with 2 poles in series & & & & & & & \\ \hline IEC max current le in DC1 with L/R \leq 1 ms with 2 poles in series & & & & & & & & \\ \hline IEC max current le in DC1 with L/R \leq 1 ms with 2 poles in series & & & & & & & & \\ \hline IEC max current le in DC1 with L/R \leq 1 ms with 2 poles in series & & & & & & & & & \\ \hline IEC max current le in DC1 with L/R \leq 1 ms with 3 poles in series & & & & & & & & & \\ \hline IEC max current le in DC1 with L/R \leq 1 ms with 3 poles in series & & & & & & & & & \\ \hline IEC max current le in DC1 with L/R \leq 1 ms with 3 poles in series & & & & & & & & & \\ \hline IEC max current le in DC1 with L/R \leq 1 ms with 3 poles in series & & & & & & & & & \\ \hline IEC max current le in DC1 with L/R \leq 1 ms with 3 poles in series & & & & & & & & & & & \\ \hline IEC max current le in DC1 with L/R \leq 1 ms with 3 poles in series & & & & & & & & & & \\ \hline IEC max current le in DC1 with L/R \leq 1 ms with 3 poles in series & & & & & & & & & & & \\ \hline IEC max current le in DC1 with L/R \leq 1 ms with 3 poles in series & & & & & & & & & & & & & & & & & & &$		400V	kW	12.5	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		415V	kW	13.4	
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $		440V	kW	13.4	
Rated operational power AC-1 (T≤40°C)230VkW12400VkW21500VkW26690VkW36IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series $\leq 24V$ A2048VA1875VA18110VA6220VA-IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series $\leq 24V$ A2348VA2375VA16220VA1IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series $\leq 24V$ A2348VA2375VA23110VA16220VA1IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series $\leq 24V$ A2348VA2375VA2348VA2375VA23			kW		
$\begin{array}{c} 230 \vee  k \mathbb{W}  12 \\ 400 \vee  k \mathbb{W}  21 \\ 500 \vee  k \mathbb{W}  26 \\ 690 \vee  k \mathbb{W}  36 \end{array}$ IEC max current le in DC1 with L/R < 1ms with 1 poles in series $\begin{array}{c} \leq 24 \vee  A  20 \\ 48 \vee  A  18 \\ 75 \vee  A  18 \\ 110 \vee  A  6 \\ 220 \vee  A  - \end{array}$ IEC max current le in DC1 with L/R < 1ms with 2 poles in series $\begin{array}{c} \leq 24 \vee  A  23 \\ 48 \vee  A  23 \\ 75 \vee  A  23 \\ 110 \vee  A  16 \\ 220 \vee  A  1 \end{array}$ IEC max current le in DC1 with L/R < 1ms with 3 poles in series $\begin{array}{c} \leq 24 \vee  A  23 \\ 48 \vee  A  23 \\ 110 \vee  A  16 \\ 220 \vee  A  1 \end{array}$ IEC max current le in DC1 with L/R < 1ms with 3 poles in series $\begin{array}{c} \leq 24 \vee  A  23 \\ 48 \vee  A  23 \\ 110 \vee  A  16 \\ 220 \vee  A  1 \end{array}$		690V	kW	11	
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	Rated operational power AC-1 (T≤40°C)				
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $					
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $					
IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series $\leq 24V$ A20 $48V$ A18 $75V$ A18 $110V$ A6 $220V$ A-IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series $\leq 24V$ A23 $48V$ A23 $75V$ A23 $110V$ A16 $220V$ A1IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series $\leq 24V$ A23 $110V$ A16 $220V$ A1IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series $\leq 24V$ A23 $48V$ A23 $48V$ A23 $48V$ A23 $75V$ A23 $75V$ A23 $75V$ A23 $75V$ A23 $75V$ A23					
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$		690V	kVV	36	
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	IEC max current le in DC1 with $L/R \le 1$ ms with 1 poles in series	-0 A) (			
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$					
$ \begin{array}{c cccc} 110 V & A & 6 \\ 220 V & A & - \end{array} \\ \hline \mbox{IEC max current le in DC1 with L/R \le 1ms with 2 poles in series} \\ \hline & \le 24 V & A & 23 \\ & 48 V & A & 23 \\ & 48 V & A & 23 \\ & 75 V & A & 23 \\ & 110 V & A & 16 \\ & 220 V & A & 1 \\ \hline & \mbox{IEC max current le in DC1 with L/R \le 1ms with 3 poles in series} \\ \hline & \mbox{IEC max current le in DC1 with L/R \le 1ms with 3 poles in series} \\ \hline & \mbox{IEC max current le in DC1 with L/R \le 1ms with 3 poles in series} \\ \hline & \mbox{IEC max current le in DC1 with L/R \le 1ms with 3 poles in series} \\ \hline & \mbox{IEC max current le in DC1 with L/R \le 1ms with 3 poles in series} \\ \hline & \mbox{IEC max current le in DC1 with L/R \le 1ms with 3 poles in series} \\ \hline & \mbox{IEC max current le in DC1 with L/R \le 1ms with 3 poles in series} \\ \hline & \mbox{IEC max current le in DC1 with L/R \le 1ms with 3 poles in series} \\ \hline & \mbox{IEC max current le in DC1 with L/R \le 1ms with 3 poles in series} \\ \hline & \mbox{IEC max current le in DC1 with L/R \le 1ms with 3 poles in series} \\ \hline & \mbox{IEC max current le in DC1 with L/R \le 1ms with 3 poles in series} \\ \hline & \mbox{IEC max current le in DC1 with L/R \le 1ms with 3 poles in series} \\ \hline & \mbox{IEC max current le in DC1 with L/R \le 1ms with 3 poles in series} \\ \hline & \mbox{IEC max current le in DC1 with L/R \le 1ms with 3 poles in series} \\ \hline & \mbox{IEC max current le in DC1 with L/R \le 1ms with 3 poles in series} \\ \hline & \mbox{IEC max current le in DC1 with L/R \le 1ms with 3 poles in series} \\ \hline & \mbox{IEC max current le in DC1 with L/R \le 1ms with 3 poles in series} \\ \hline & \mbox{IEC max current le in DC1 with L/R \le 1ms with 3 poles in series} \\ \hline & \mbox{IEC max current le in DC1 with L/R \le 1ms with 3 poles in series} \\ \hline & \mbox{IEC max current le in DC1 with L/R \le 1ms with 3 poles in series} \\ \hline & \mbox{IEC max current le in DC1 with L/R \le 1ms with 3 poles in series} \\ \hline & \mbox{IEC max current le in DC1 with L/R \le 1ms with 3 poles in series} \\ \hline & IEC max current le in DC1 with L/R \le 1ms with 3 poles in series \\ \hline & \mbox{IEC max current le in DC1 with $					
$\begin{array}{c c c c c c c c c c c c c c c c c c c $					
IEC max current le in DC1 with L/R < 1ms with 2 poles in series					
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	IEC may current to in DC1 with L/P < 1ms with 2 poles in series	220 V	A	-	
$ \begin{array}{cccc} 48 \ensuremath{\mathbb{V}} & A & 23 \\ 75 \ensuremath{\mathbb{V}} & A & 23 \\ 110 \ensuremath{\mathbb{V}} & A & 16 \\ 220 \ensuremath{\mathbb{V}} & A & 1 \end{array} \\ \hline \ensuremath{IEC} \mbox{ max current le in DC1 with L/R $\le$ 1ms with 3 poles in series} \\ \ensuremath{\overset{\leq}{}} 24 \ensuremath{\mathbb{V}} & A & 23 \\ 48 \ensuremath{\mathbb{V}} & A & 23 \\ 75 \ensuremath{\mathbb{V}} & A & 23 \end{array} \\ \end{array} $	TEC max current le in DCT with L/R 3 mis with 2 poles in series	<241/	۸	22	
$\begin{array}{c cccc} 75 & A & 23 \\ 110 & A & 16 \\ 220 & A & 1 \end{array}$ IEC max current le in DC1 with L/R < 1ms with 3 poles in series $\begin{array}{c ccccccccccccccccccccccccccccccccccc$					
$\begin{tabular}{cccc} 110V & A & 16\\ 220V & A & 1\\ \hline \end{tabular}$ IEC max current le in DC1 with L/R < 1ms with 3 poles in series $\begin{tabular}{cccc} \leq 24V & A & 23\\ 48V & A & 23\\ 75V & A & 23\\ \hline \end{tabular}$					
220V         A         1           IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series         ≤24V         A         23           48V         A         23           75V         A         23					
IEC max current le in DC1 with L/R $\leq$ 1ms with 3 poles in series $\leq 24V \qquad A \qquad 23$ $48V \qquad A \qquad 23$ $75V \qquad A \qquad 23$					
<ul> <li>≤24V</li> <li>A</li> <li>A<td>IEC max current le in DC1 with L/R &lt; 1ms with 3 notes in series</td><td>2201</td><td>/ \</td><td>•</td></li></ul>	IEC max current le in DC1 with L/R < 1ms with 3 notes in series	2201	/ \	•	
48V A 23 75V A 23		≤24\/	А	23	
75V A 23					
		110V	A	18	



**BF2510D125** THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 25A, DC COIL, 125VDC, 1NO AUXILIARY CONTACT

-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC	23) =	25A, D	C COIL,	125VDC,
	1N0	O AUXI	LIARY C	ONTACT
220\	/	А	12	

	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	Α	-	
	220V	Α	-	
IEC max current le in DC3-DC5 with $L/R \le 15$ ms with 1 poles in series	-0.0.4	•	4 5	
	≤24V 48V	A A	15 13	
	48V 75V	A	13	
	110V	A	2	
	220V	A	<u> </u>	
IEC max current le in DC3-DC5 with L/R $\leq$ 15ms with 2 poles in series	2201	,,		
	≤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 $\leq$ 15ms with 3 poles in series				
	≤24V	А	22	
	48V	А	22	
	75V	A	18	
	110V	A	15	
IEC may summat be in DC2 DC5 with $1/D < 45$ ms with 4 males in series	220V	A	8	
IEC max current le in DC3-DC5 with L/R $\leq$ 15ms with 4 poles in series	≤24V	^		
	≤24V 48V	A A	_	
	40V 75V	A	_	
	110V	A	_	
	220V	A	_	
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)		Α	250	
Breaking capacity at voltage				
	440V	Α	200	
	500V	A	184	
	690V	A	102	
Resistance per pole (average value)		mΩ	2.5	
Power dissipation per pole (average value)	lth	۱۸/	26	
	Ith AC3	W W	2.6 1.6	
Tightening torque for terminals	A03	vv	1.0	
	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	
	min	Ibin	0.8	



THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 25A, DC COIL, 125VDC, 1NO AUXILIARY CONTACT

BF2510D125

		max	lbin	0.74
	simultaneously connectable		Nr.	2
Conductor section	AWG/Kcmil			
	Awg/kcmii	may		10
	Flexible w/o lug conductor section	max		10
		min	mm²	1
		max	mm²	6
	Flexible c/w lug conductor section	Пах		0
		min	mm²	1
		max	mm²	4
	Flexible with insulated spade lug conductor section			
	· · · · · · · · · · · · · · · · · · ·	min	mm²	1
		max	mm²	4
				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 rai 35mm
Weight			g	500
Conductor section			5	
	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	315			
Operating current AC	15	230V	А	3
Operating current AC	:15	230V 400V	A A	3 1.9
Operating current AC	:15			
Operating current AC		400V	A	1.9
		400V	A	1.9
	:12	400V 500V	A A	1.9 1.4
Operating current DC	:12	400V 500V	A A	1.9 1.4
Operating current DC	:12	400V 500V 110V	A A A	1.9 1.4 5.7
Operating current DC	:12	400V 500V 110V 24V	A A A	1.9 1.4 5.7 5.7
Operating current DC	:12	400V 500V 110V 24V 48V 60V 110V	A A A A A	1.9 1.4 5.7 5.7 2.9
Operating current DC	:12	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	:12	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
Operating current DC	:12	400V 500V 110V 24V 48V 60V 110V 125V	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
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	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	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	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	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 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	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 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 B	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 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	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 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



BF2510D125 THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 25A, DC COIL, 125VDC,

**1NO AUXILIARY CONTACT** 

					405
DC rated control voltage	je			V	125
DC operating voltage	nick un				
	pick-up		min	%Us	70
			max	%Us	125
	drop-out		тах	/000	120
	arop out		min	%Us	10
			max	%Us	40
Average coil consump	tion ≤20°C				
<b>.</b> .			in-rush	W	5.4
			holding	W	5.4
Max cycles frequency					
Mechanical operation				cycles/h	3600
Operating times					
Average time for Us co	ontrol				
	in AC				
		Closing NO			
			min	ms	8
			max	ms	24
		Opening NO			
			min	ms	10
			max	ms	20
		Closing NC			
			min	ms	14
		On online NC	max	ms	28
		Opening NC	min	ma	7
			min max	ms ms	7 18
	in DC		IIIdA	1115	10
	III DC	Closing NO			
			min	ms	54
			max	ms	66
		Opening NO			
		513 5	min	ms	14
			max	ms	17
UL technical data					
Full-load current (FLA)	for three-phase AC r	notor			
			at 480V	А	21
			at 600V	А	17
Yielded mechanical pe					
	for single-phase AC	C motor			
			110/120V	HP	2
			230V	HP	3
	for three-phase AC	motor			
			200/208V	HP	7.5
			220/230V	HP	7.5
			460/480V	HP	15
0			575/600V	HP	15
General USE	0				
	Contactor			^	22
	Auviliant easte ste		AC current	A	32
	Auxiliary contacts			V	600
			AC voltage AC current	V A	600 10
			AC current	~	10

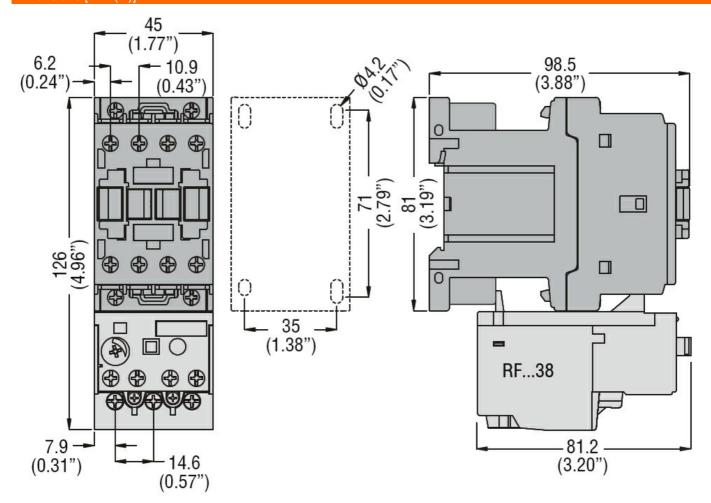
BF2510D125



BF2510D125 THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 25A, DC COIL, 125VDC, 1NO AUXILIARY CONTACT

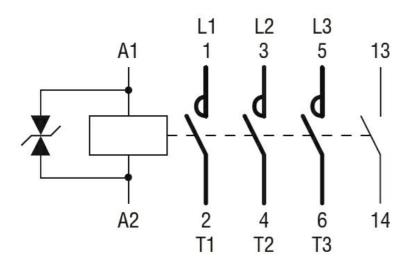
		DC voltage	V	250
		DC current	А	1
Short-circuit protecti	on fuse, 600V			
	High fault			
		Short circuit current	kA	100
		Fuse rating	А	60
		Fuse class		J
	Standard fault			
		Short circuit current	kA	5
		Fuse rating	А	100
Contact rating of aux	kiliary contacts according to UL			A600 - P600
Ambient conditions				
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)]



### 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





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		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	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	-0.0.4		
	≤24V	A	23
	48V	A	23
	75V	A	23
	110V	A	16
	220V	A	1
IEC max current le in DC1 with $L/R \le 1$ ms with 3 poles in series		•	00
	≤24V	A	23
	48V	A	23
	75V	A	23
	110V	A	18



**BF2510D220** THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 25A, DC COIL, 220VDC, 1NO AUXILIARY CONTACT

OLE CONTACTOR, IEC OPERATING CURREN	NT IE (AC3)	= 25A, I	DC COIL,	220VDC,
	1	NO AU>	(ILIARY C	ONTACT
	0001/		4.0	

	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 $\leq$ 15ms with 1 poles in series			
	≤24V	А	15
	48V	А	13
	75V	Α	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	A	2
IEC max current le in DC3-DC5 with L/R $\leq$ 15ms with 3 poles in series			
	≤24V	А	22
	48V	A	22
	75V	A	18
	110V	A	15
	220V	A	8
IEC max current le in DC3-DC5 with L/R $\leq$ 15ms with 4 poles in series			
	≤24V	A	_
	48V	Α	_
	75V	A	_
	110V	A	_
	220V	<u>A</u>	-
Short-time allowable current for 10s (IEC/EN60947-1)		Α	200
Protection fuse			
	gG (IEC)	A	50
	aM (IEC)	<u>A</u>	25
Making capacity (RMS value)		Α	250
Breaking capacity at voltage			
	440V	A	200
	500V	A	184
	690V	A	102
Resistance per pole (average value)		mΩ	2.5
Power dissipation per pole (average value)	141-	147	0.0
	lth	W	2.6
Tightoning torque for terminale	AC3	W	1.6
Tightening torque for terminals		Nime	1 5
	min	Nm Nm	1.5
	max	Nm Ibin	1.8
	min	lbin Ibin	1.1 1.5
Tightening torque for coil terminal	max	חומו	1.0
	min	Nm	0.8
		Nm	1
	max	Ibin	
	min		0.8



THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 25A, DC COIL, 220VDC, 1NO AUXILIARY CONTACT

Mox number of users	aimultan agustu agus agtabla	max	lbin	0.74
	simultaneously connectable		Nr.	2
Conductor section				
	AWG/Kcmil	may		10
	Flexible w/o lug conductor section	max		10
	Flexible w/o lug conductor section	min	mm²	1
		max	mm²	6
	Flexible c/w lug conductor section	max		0
	Therefore C/W hug conductor section	min	mm²	1
		max	mm²	4
	Flexible with insulated spade lug conductor section	Шах		<b>T</b>
	The side with insulated space by conductor section	min	mm²	1
		max	mm²	4
		max		IP20 when
Power terminal prote	ction according to IEC/EN 60529			properly wired
Mechanical features				F
Operating position				
		normal		Vertical plan
		allowable		±30°
				Screw / DIN rai
Fixing				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	15			
		230V	А	3
		400V	А	1.9
		500V	А	1.4
Operating current DC	12			
		110V	А	5.7
Operating current DC	13			
		24V	А	5.7
		48V	А	2.9
		60V	А	2.3
		110V	А	1.25
		-		1.1
		125V	A	1.1
		125V 220V	A A	0.55
Operations		220V	А	0.55
•		220V	А	0.55
Mechanical life		220V	A A	0.55 0.2
Mechanical life Electrical life		220V	A A cycles	0.55 0.2 20000000
Mechanical life Electrical life Safety related data	10d according to EN/ISO 13489-1	220V	A A cycles	0.55 0.2 20000000
Mechanical life Electrical life Safety related data	10d according to EN/ISO 13489-1	220V 600V	A A cycles cycles	0.55 0.2 20000000 1200000
Mechanical life Electrical life Safety related data	-	220V 600V	A A cycles cycles	0.55 0.2 20000000 1200000 1200000
Mechanical life Electrical life Safety related data Performance level B1	me	220V 600V	A A cycles cycles	0.55 0.2 20000000 1200000 1200000 20000000
Mechanical life Electrical life Safety related data Performance level B1	-	220V 600V	A A cycles cycles	0.55 0.2 20000000 1200000 1200000



BF2510D220 THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 25A, DC COIL, 220VDC,

**1NO AUXILIARY CONTACT** 

DC rated control voltage	1e			V	220
DC operating voltage	Je			v	220
De operating voltage	pick-up				
	pion up		min	%Us	70
			max	%Us	125
	drop-out				
			min	%Us	10
			max	%Us	40
Average coil consump	tion ≤20°C				
			in-rush	W	5.4
			holding	W	5.4
Max cycles frequency					
Mechanical operation				cycles/h	3600
Operating times					
Average time for Us co	ontrol				
	in AC				
		Closing NO			
			min	ms	8
			max	ms	24
		Opening NO			
			min	ms	10
		aa	max	ms	20
		Closing NC			
			min	ms	14
			max	ms	28
		Opening NC			_
			min	ms	7
			max	ms	18
	in DC				
		Closing NO	min	<b>m</b> 0	54
			min	ms	54 66
		Opening NO	max	ms	00
			min	ms	14
			max	ms	17
UL technical data			Шах	1113	17
Full-load current (FLA)	for three-phase AC	motor			
			at 480V	А	21
			at 600V	A	17
Yielded mechanical pe	rformance				
	for single-phase A	AC motor			
			110/120V	HP	2
			230V	HP	3
	for three-phase A	C motor			
			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	А	10

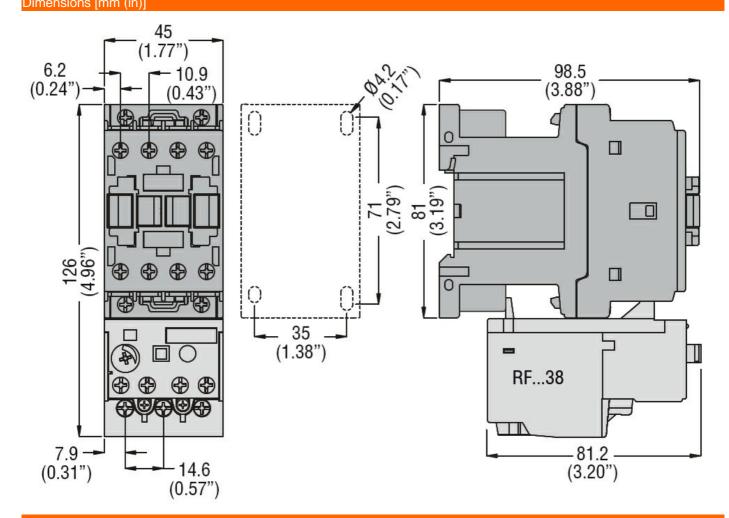
BF2510D220



BF2510D220 THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 25A, DC COIL, 220VDC,

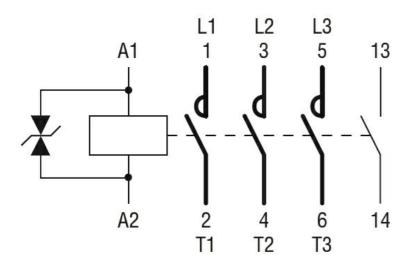
**1NO AUXILIARY CONTACT** 

		DC voltage	V	250
		DC current	А	1
Short-circuit protection	n 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 auxil	iary 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 & Protecti	on			
Pollution degree				3
Dimensions [mm (in)]				



### 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