



Draduat designation		Dower contector
Product designation		Power contactor BF12
Product type designation Contact characteristics		
Number of poles	Nr.	3
Rated insulation voltage Ui IEC/EN	V	690
Rated inpulse withstand voltage Uimp	kV	6
Operational frequency	K V	0
min	Hz	25
max	Hz	400
IEC Conventional free air thermal current Ith	A	28
Operational current le	7	20
AC-1 (≤40°C)	А	28
AC-1 (≤55°C)	A	23
AC-1 (≤70°C)	A	20
AC-3 (≤440V ≤55°C)	A	12
AC-4 (400V)	A	7.9
Rated operational power AC-3 (T≤55°C)		
230V	kW	3.2
400V	kW	5.7
415V	kW	6.2
440V	kW	6.2
500V	kW	7.5
690V	kW	10
Rated operational power AC-1 (T≤40°C)		
230V	kW	10
400V	kW	18
500V	kW	23
690V	kW	32
IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series		
≤24V	А	17
48V	А	15
75V	А	13
110V	А	6
220V	Α	_
IEC max current le in DC1 with L/R \leq 1ms with 2 poles in series		
≤24V	Α	20
48V	A	20
75V	A	18
110V	А	13
220V	A	1
IEC max current le in DC1 with $L/R \le 1$ ms with 3 poles in series		
≤24V	А	22
48V	А	22
75V	A	20
110V	A	16



THREE-POLE CONTACTOR, IEC O 1NC AUXILIARY CONTACT

	BF12	01D125
PERATING CURRENT IE (AC3) = 12A,	DC COIL,	125VDC,

	220V	А	11	
IEC max current le in DC1 with $L/R \le 1$ ms with 4 poles in series				
	≤24V	А	20	
	48V	А	20	
	75V	А	20	
	110V	А	16	
	220V	A	12	
IEC max current le in DC3-DC5 with L/R \leq 15ms with 1 poles in series				
	≤24V	A	12	
	48V	A	11	
	75V	A	10	
	110V	A	2	
	220V	A	-	
IEC max current le in DC3-DC5 with $L/R \le 15$ ms with 2 poles in series				
	≤24V	A	15	
	48V	A	13	
	75V	A	12	
	110V	A	8	
	220V	A	2	
IEC max current le in DC3-DC5 with $L/R \le 15$ ms with 3 poles in series	-041/	۸	4.0	
	≤24V	A	18	
	48V	A	18	
	75V	A	15	
	110V 220V	A	12	
IEC may aurrent to in DC2 DC5 with L/P < 15mg with 4 polog in agrica	2200	A	6	
IEC max current le in DC3-DC5 with $L/R \le 15$ ms with 4 poles in series	≤24V	А	15	
	≤24V 48V	A	15	
	48V 75V	A	15	
	110V	A	16	
	220V	A	7	
Short-time allowable current for 10s (IEC/EN60947-1)	2201	A	150	
Protection fuse		~	100	
	gG (IEC)	А	32	
	aM (IEC)	A	12	
Making capacity (RMS value)		A	120	
Breaking capacity at voltage		~	120	
Droaking oupdoiry at voltage	440V	А	96	
	500V	A	90 96	
	690V	A	94	
Resistance per pole (average value)	0001	mΩ	2.5	
Power dissipation per pole (average value)		11132	2.0	
	lth	W	2	
	AC-3	W	2	
Tightening torque for terminals	70-0	٧V	U.T	
	min	Nm	1.5	
	max	Nm	1.8	
	min	Ibin	1.0	
	max	Ibin	1.5	
Tightening torque for coil terminal	max	15111		
	min	Nm	0.8	
	max	Nm	1	
	min	Ibin	0.8	
		15111	0.0	



THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 12A, DC COIL, 125VDC, 1NC AUXILIARY CONTACT

BF1201D125

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 mm² 4 max 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 496 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 2000000 cycles Safety related data Performance level B10d according to EN/ISO 13489-1 2000000 rated load cycles mechanical load 20000000 cycles Mirror contats according to IEC/EN 609474-4-1 yes EMC compatibility yes DC coil operating

BF1201D125



BF1201D125 THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 12A, DC COIL, 125VDC,

1NC AUXILIARY CONTACT

				.,	405
DC rated control voltage	je			V	125
DC operating voltage					
	pick-up		min	%Us	70
			min max	%Us %Us	125
	drop-out		IIIdX	/005	125
	ulop-out		min	%Us	10
			max	%Us	40
Average coil consump	tion ≤20°C			,	
5 1			in-rush	W	5.4
			holding	W	5.4
Max cycles frequency			Ű		
Mechanical operation				cycles/h	3600
Operating times					
Average time for Us co					
	in AC				
		Closing NO			
			min	ms	8
			max	ms	24
		Opening NO			
			min	ms	10
			max	ms	20
		Closing NC	min		4.4
			min	ms	14 28
		Opening NC	max	ms	20
		Opening NO	min	ms	7
			max	ms	18
	in DC				
		Closing NO			
		0	min	ms	54
			max	ms	66
		Opening NO			
			min	ms	14
			max	ms	17
		Closing NC	_		
			min	ms	24
			max	ms	30
		Opening NC	min	ma	47
			max	ms ms	57
UL technical data			IIIdA	1113	51
Full-load current (FLA)	for three-phase AC m	otor			
			at 480V	А	11
			at 600V	A	11
Yielded mechanical pe	rformance				
1 -	for single-phase AC	motor			
			110/120V	HP	1
			230V	HP	2
	for three-phase AC r	notor			
			200/208V	HP	5
			220/230V	HP	5
			460/480V	HP	7.5
			575/600V	HP	10

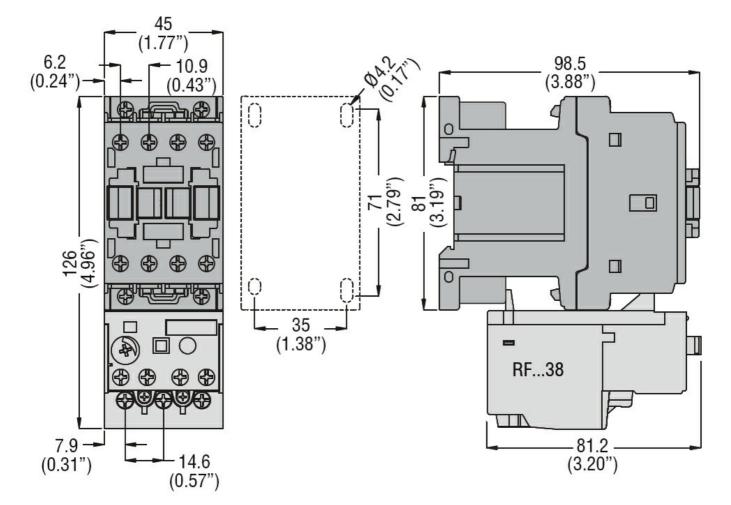


General USE				
	Contactor			
		AC current	А	28
	Auxiliary contacts			
		AC voltage	V	600
		AC current	А	10
		DC voltage	V	250
		DC current	Α	1
Short-circuit protect	tion fuse, 600V			
	High fault			
		Short circuit current	kA	100
		Fuse rating	А	30
		Fuse class		J
	Standard fault			
		Short circuit current	kA	5
		Fuse rating	Α	70
	ixiliary contacts according to UL			A600 - P600
Ambient conditions				
Femperature				
	Operating temperature			
		min	°C	-50
		max	°C	70
	Storage temperature			
		min	°C	-60
		max	°C	80
Max altitude			m	3000
Resistance & Prote	ection			
Pollution degree				3
Dimensions				

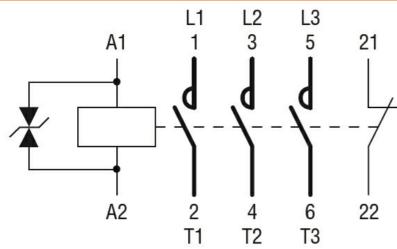
BF1201D125



THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 12A, DC COIL, 125VDC, 1NC AUXILIARY CONTACT



Wiring diagrams



Certifications and compliance

Compliance	
	CSA C22.2 n° 60947-1
	CSA C22.2 n° 60947-4-1
	IEC/EN/BS 60947-1
	IEC/EN/BS 60947-4-1
	UL 60947-1
	UL 60947-4-1
Cortificatos	

Certificates



BF1201D125 THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 12A, DC COIL, 125VDC, 1NC AUXILIARY CONTACT

	CCC
	cULus
	EAC
ETIM classification	

ETIM 8.0

EC000066 -Power contactor, AC switching