



Product designation			Power contactor
Product type designation			BF12
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	28
Operational current le			
	AC-1 (≤40°C)	Α	28
	AC-1 (≤55°C)	Α	23
	AC-1 (≤70°C)	Α	20
	AC-3 (≤440V ≤55°C)	Α	12
	AC-4 (400V)	Α	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	Α	17
	48V	Α	15
	75V	Α	13
	110V	Α	6
	220V	Α	_
IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series			
	≤24V	Α	20
	48V	Α	20
	75V	Α	18
	110V	Α	13
	220V	Α	1
IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series			
	≤24V	Α	22
	48V	Α	22
	75V	Α	20
	110V	Α	16





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	220V	Α	11
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series			
	≤24V	Α	20
	48V	Α	20
	75V	Α	20
	110V	Α	16
	220V	Α	12
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series			
·	≤24V	Α	12
	48V	Α	11
	75V	Α	10
	110V	Α	2
	220V	Α	_
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series	220 V		
The max current le in boo-boo with bit 2 forts with 2 poles in series	≤24V	Α	15
	48V	A	13
	46 V 75 V		13
		A	
	110V	A	8
150	220V	A	2
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series	.= :		4.0
	≤24V	Α	18
	48V	Α	18
	75V	Α	15
	110V	Α	12
	220V	Α	6
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series			
	≤24V	Α	15
	48V	Α	15
	75V	Α	15
	110V	Α	16
	220V	Α	7
Short-time allowable current for 10s (IEC/EN60947-1)		Α	150
Protection fuse			
	gG (IEC)	Α	32
	aM (IEC)	Α	12
Making capacity (RMS value)	·	Α	120
Breaking capacity at voltage			
J. Safe and J. Saf	440V	Α	96
	500V	A	96
	690V	A	94
Resistance per note (average value)	090 v	mΩ	2.5
Resistance per pole (average value)		11177	۷.ن
Power dissipation per pole (average value)	141	147	2
	Ith	W	2
Till to die teen et te teen de	AC-3	W	0.4
Tightening torque for terminals			4 =
	min	Nm	1.5
	max	Nm	1.8
	min	Ibin	1.1
	max	lbin	1.5
Tightening torque for coil terminal			
	min	Nm	0.8
	max	Nm	1
	min	Ibin	0.8



Maria de la contracta de la co	day to the second second to	max	Ibin	0.74
	simultaneously connectable		Nr.	2
Conductor section	A)A(O///!			
	AWG/Kcmil	may		10
	Flovible w/e lug conductor coction	max		10
	Flexible w/o lug conductor section	min	mm²	1
		max	mm²	6
	Flexible c/w lug conductor section	max	111111	0
	r lexible 6/W lug conductor section	min	mm²	1
		max	mm²	4
	Flexible with insulated spade lug conductor section	max		•
	The state of the s	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 rail
				35mm
Weight			g	500
Conductor section				
	AWG/kcmil conductor section			
		max		10
Auxiliary contact char	acteristics		•	10
Thermal current Ith			A	10
IEC/EN 60947-5-1 de				A600 - P600
Operating current AC	715	0001		•
		230V	A	3
		400V 500V	A	1.9
		5007	Α	1.4
O	110			
Operating current DC	212		Δ	F 7
•		110V	Α	5.7
		110V		
		110V 24V	Α	5.7
		110V 24V 48V	A A	5.7 2.9
•		110V 24V 48V 60V	A A A	5.7 2.9 2.3
•		110V 24V 48V 60V 110V	A A A	5.7 2.9 2.3 1.25
		110V 24V 48V 60V 110V 125V	A A A A	5.7 2.9 2.3 1.25 1.1
		110V 24V 48V 60V 110V 125V 220V	A A A A	5.7 2.9 2.3 1.25 1.1 0.55
Operating current DC		110V 24V 48V 60V 110V 125V	A A A A	5.7 2.9 2.3 1.25 1.1
Operating current DC		110V 24V 48V 60V 110V 125V 220V	A A A A A	5.7 2.9 2.3 1.25 1.1 0.55 0.2
Operating current DC  Operations  Mechanical life		110V 24V 48V 60V 110V 125V 220V	A A A A A A cycles	5.7 2.9 2.3 1.25 1.1 0.55 0.2
Operating current DC  Operations  Mechanical life  Electrical life		110V 24V 48V 60V 110V 125V 220V	A A A A A	5.7 2.9 2.3 1.25 1.1 0.55 0.2
Operating current DC  Operations  Mechanical life  Electrical life  Safety related data	213	110V 24V 48V 60V 110V 125V 220V	A A A A A A cycles	5.7 2.9 2.3 1.25 1.1 0.55 0.2
Operating current DC  Operations  Mechanical life  Electrical life  Safety related data		110V 24V 48V 60V 110V 125V 220V 600V	A A A A A A cycles	5.7 2.9 2.3 1.25 1.1 0.55 0.2 20000000 20000000
Operating current DC  Operations  Mechanical life  Electrical life  Safety related data	10d according to EN/ISO 13489-1	110V 24V 48V 60V 110V 125V 220V 600V	A A A A A A Cycles cycles	5.7 2.9 2.3 1.25 1.1 0.55 0.2 20000000 20000000
	10d according to EN/ISO 13489-1	110V 24V 48V 60V 110V 125V 220V 600V	A A A A A A cycles	5.7 2.9 2.3 1.25 1.1 0.55 0.2 20000000 20000000
Operating current DC  Operations  Mechanical life  Electrical life  Safety related data  Performance level B	10d according to EN/ISO 13489-1	110V 24V 48V 60V 110V 125V 220V 600V	A A A A A A Cycles cycles	5.7 2.9 2.3 1.25 1.1 0.55 0.2 20000000 20000000



DC rated control voltage	je			V	110
DC operating voltage					
	pick-up		_		
			min	%Us	70
			max	%Us	125
	drop-out			0/11-	4.0
			min	%Us %Us	10 40
Average coil consumpt	tion <20°C		max	7605	40
Average con consump	11011 320 0		in-rush	W	5.4
			holding	W	5.4
Max cycles frequency			Helaling	•••	0.1
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
		0	max	ms	20
		Closing NC			4.4
			min	ms	14
		Opening NC	max	ms	28
		Opening NC	min	ms	7
			max	ms	18
	in DC		max		
	2 0	Closing NO			
		<b> </b>	min	ms	54
			max	ms	66
		Opening NO			
			min	ms	14
			max	ms	17
		Closing NC			
			min	ms	24
		On aning NO	max	ms	30
		Opening NC	min	mc	47
			min max	ms ms	57
UL technical data			IIIdX	1113	
	for three-phase AC mo	otor			
			at 480V	Α	11
			at 600V	Α	11
Yielded mechanical pe	rformance				
·	for single-phase AC n	notor			
			110/120V	HP	1
			230V	HP	2
	for three-phase AC m	otor			
			200/208V	HP	5
			220/230V	HP	5
			460/480V	HP	7.5
			575/600V	HP	10

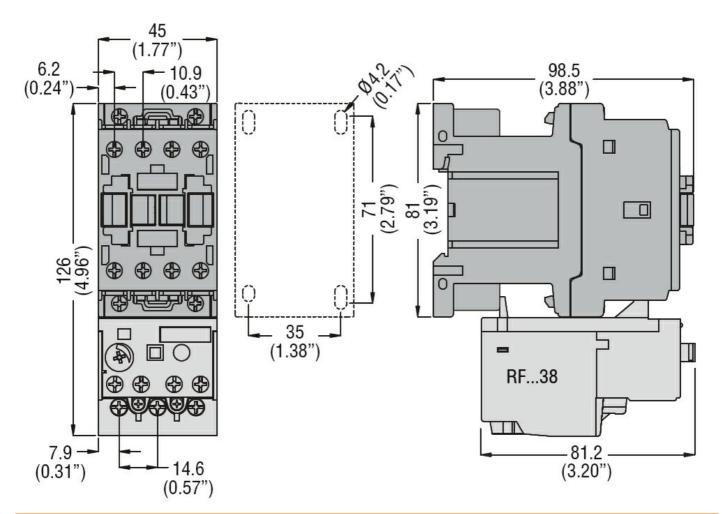




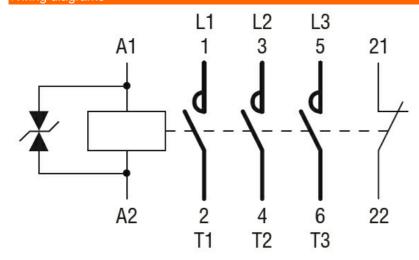
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**ENERGY AND AUTOMATION** 

### THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 12A, DC COIL, 110VDC, 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

#### Certificates



#### BF1201D110

THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 12A, DC COIL, 110VDC, 1NC AUXILIARY CONTACT

CCC		
cULus		
EAC		

ETIM classification

ETIM 8.0

EC000066 -Power contactor, AC switching