



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

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	220V	А	11	
IEC max current le in DC1 with $L/R \le 1$ ms with 4 poles in series				
	≤24V	Α	20	
	48V	А	20	
	75V	А	20	
	110V	А	16	
	220V	A	12	
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series	220 V		12	
TEO max current le in DOO-DOO with Ert 3 Toms with 1 poles in series	<2417	۸	10	
	≤24V	A	12	
	48V	A	11	
	75V	A	10	
	110V	А	2	
	220V	Α	_	
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series				
	≤24V	Α	15	
	48V	А	13	
	75V	А	12	
	110V	A	8	
	220V	A	2	
IFC may current le in DC3 DC5 with $1/P < 15$ may with 2 palas in action	220 V	Λ	<u>~</u>	
IEC max current le in DC3-DC5 with $L/R \le 15$ ms with 3 poles in series	-0.07	•	10	
	≤24V	A	18	
	48V	А	18	
	75V	А	15	
	110V	Α	12	
	220V	Α	6	
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series				
	≤24V	А	15	
	48V	А	15	
	75V	A	15	
	110V	A	16	
	220V		7	
	220 V	<u>A</u>		
Short-time allowable current for 10s (IEC/EN60947-1)		A	150	
Protection fuse				
	gG (IEC)	A	32	
	aM (IEC)	Α	12	
Making capacity (RMS value)		Α	120	
Breaking capacity at voltage				
	440V	А	96	
	500V	A	96	
	690V	A	94	
Resistance per pole (average value)	0000	mΩ	2.5	
		11152	2.0	
Power dissipation per pole (average value)		147	0	
	Ith	W	2	
	AC-3	W	0.4	
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	

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Maximum		max	lbin	0.74
	simultaneously connectable		Nr.	2
Conductor section				
	AWG/Kcmil			10
	F lavible/a has an ductor as stice	max		10
	Flexible w/o lug conductor section			4
		min	mm²	1
	Flexible c/w lug conductor section	max	mm²	6
	Flexible c/w lug conductor section	min	mm²	1
			mm²	4
	Flovible with inculated anode lug conductor costion	max		4
	Flexible with insulated spade lug conductor section	min	mm²	1
		min	mm²	4
		max	111111	IP20 when
Power terminal protect	ction according to IEC/EN 60529			properly wired
Mechanical features				propeny mieu
Operating position				
		normal		Vertical plan
		allowable		±30°
				Screw / DIN rai
Fixing				35mm
Weight			g	490
Conductor section			-	
	AWG/kcmil conductor section			
		max		10
Auxiliary contact chara	acteristics			
Auxiliary contact chara Thermal current Ith	acteristics		A	10
Thermal current Ith			A	
	esignation		A	10
Thermal current lth IEC/EN 60947-5-1 de	esignation	230V	A	10
Thermal current lth IEC/EN 60947-5-1 de	esignation			10 A600 - P600
Thermal current lth IEC/EN 60947-5-1 de	esignation	230V	A	10 A600 - P600 3
Thermal current lth IEC/EN 60947-5-1 de	esignation 15	230V 400V	A A	10 A600 - P600 3 1.9
Thermal current Ith IEC/EN 60947-5-1 de Operating current AC	esignation 15	230V 400V	A A	10 A600 - P600 3 1.9
Thermal current Ith IEC/EN 60947-5-1 de Operating current AC Operating current DC	esignation 15 12	230V 400V 500V	A A A	10 A600 - P600 3 1.9 1.4
Thermal current Ith IEC/EN 60947-5-1 de Operating current AC Operating current DC	esignation 15 12	230V 400V 500V	A A A	10 A600 - P600 3 1.9 1.4
Thermal current Ith IEC/EN 60947-5-1 de Operating current AC Operating current DC	esignation 15 12	230V 400V 500V 110V	A A A A	10 A600 - P600 3 1.9 1.4 5.7
Thermal current Ith IEC/EN 60947-5-1 de Operating current AC Operating current DC	esignation 15 12	230V 400V 500V 110V 24V	A A A A	10 A600 - P600 3 1.9 1.4 5.7 5.7
Thermal current Ith IEC/EN 60947-5-1 de Operating current AC Operating current DC	esignation 15 12	230V 400V 500V 110V 24V 48V	A A A A A	10 A600 - P600 3 1.9 1.4 5.7 5.7 2.9
Thermal current Ith IEC/EN 60947-5-1 de Operating current AC Operating current DC	esignation 15 12	230V 400V 500V 110V 24V 48V 60V	A A A A A A A	10 A600 - P600 3 1.9 1.4 5.7 5.7 5.7 2.9 2.3
Thermal current Ith IEC/EN 60947-5-1 de Operating current AC Operating current DC	esignation 15 12	230V 400V 500V 110V 24V 48V 60V 110V	A A A A A A A A A	10 A600 - P600 3 1.9 1.4 5.7 5.7 5.7 2.9 2.3 1.25
Thermal current Ith IEC/EN 60947-5-1 de Operating current AC Operating current DC	esignation 15 12	230V 400V 500V 110V 24V 48V 60V 110V 125V	A A A A A A A A A A	10 A600 - P600 3 1.9 1.4 5.7 5.7 5.7 2.9 2.3 1.25 1.1
Thermal current Ith IEC/EN 60947-5-1 de Operating current AC Operating current DC Operating current DC	esignation 15 12	230V 400V 500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A A A A A	10 A600 - P600 3 1.9 1.4 5.7 5.7 5.7 2.9 2.3 1.25 1.1 0.55
Thermal current Ith IEC/EN 60947-5-1 de Operating current AC Operating current DC Operating current DC	esignation 15 12	230V 400V 500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A A A A A	10 A600 - P600 3 1.9 1.4 5.7 5.7 5.7 2.9 2.3 1.25 1.1 0.55
Thermal current Ith IEC/EN 60947-5-1 de Operating current AC Operating current DC Operating current DC Operations Mechanical life	esignation 15 12	230V 400V 500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A A A A A A	10 A600 - P600 3 1.9 1.4 5.7 5.7 2.9 2.3 1.25 1.1 0.55 0.2
Thermal current Ith IEC/EN 60947-5-1 de Operating current AC	esignation 15 12	230V 400V 500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A A A A A A A Cycles	10 A600 - P600 3 1.9 1.4 5.7 5.7 5.7 2.9 2.3 1.25 1.1 0.55 0.2 20000000
Thermal current Ith IEC/EN 60947-5-1 de Operating current AC Operating current DC Operating current DC Operating current DC Operations Mechanical life Electrical life Safety related data	esignation 15 12	230V 400V 500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A A A A A A A Cycles	10 A600 - P600 3 1.9 1.4 5.7 5.7 5.7 2.9 2.3 1.25 1.1 0.55 0.2 20000000
Thermal current Ith IEC/EN 60947-5-1 de Operating current AC Operating current DC Operating current DC Operating current DC Operations Mechanical life Electrical life Safety related data	esignation 15 12 13	230V 400V 500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A A A A A A A Cycles	10 A600 - P600 3 1.9 1.4 5.7 5.7 5.7 2.9 2.3 1.25 1.1 0.55 0.2 20000000
Thermal current Ith IEC/EN 60947-5-1 de Operating current AC Operating current DC Operating current DC Operating current DC Operations Mechanical life Electrical life Safety related data	esignation 15 12 13 10d according to EN/ISO 13489-1	230V 400V 500V 110V 24V 48V 60V 110V 125V 220V 600V	A A A A A A A A A A A Cycles cycles	10 A600 - P600 3 1.9 1.4 5.7 5.7 5.7 2.9 2.3 1.25 1.1 0.55 0.2 20000000 2000000
Thermal current Ith IEC/EN 60947-5-1 de Operating current AC Operating current DC Operating current DC Operating current DC Operations Mechanical life Electrical life Safety related data Performance level B1	esignation 15 12 13 10d according to EN/ISO 13489-1 m	230V 400V 500V 110V 24V 48V 60V 110V 125V 220V 600V	A A A A A A A A A A A Cycles cycles	10 A600 - P600 3 1.9 1.4 5.7 5.7 2.9 2.3 1.25 1.1 0.55 0.2 2000000 2000000 2000000
Thermal current Ith IEC/EN 60947-5-1 de Operating current AC Operating current DC Operating current DC Operating current DC Operations Mechanical life Electrical life Safety related data Performance level B1	esignation 15 12 13 10d according to EN/ISO 13489-1	230V 400V 500V 110V 24V 48V 60V 110V 125V 220V 600V	A A A A A A A A A A A Cycles cycles	10 A600 - P600 3 1.9 1.4 5.7 5.7 5.7 2.9 2.3 1.25 1.1 0.55 0.2 2000000 2000000

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1NC AUXILIARY CONTACT

DC rated control voltage	ge			V	24
DC operating voltage					
	pick-up		min	0/110	70
			min	%Us %Us	70 125
	drop-out		max	7005	125
	ulop-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			, i i i i i i i i i i i i i i i i i i i		
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			10
			min	ms	10 20
		Closing NC	max	ms	20
			min	ms	14
			max	ms	28
		Opening NC	тах	mo	20
		epeg.te	min	ms	7
			max	ms	18
	in DC				
		Closing NO			
			min	ms	54
			max	ms	66
		Opening NO	_		
			min	ms	14
			max	ms	17
		Closing NC	min	me	24
			max	ms ms	30
		Opening NC	max	1113	
			min	ms	47
			max	ms	57
UL technical data					
Full-load current (FLA)	for three-phase AC m	otor			
			at 480V	А	11
			at 600V	Α	11
Yielded mechanical pe					
	for single-phase AC	motor			
			110/120V	HP	1
			230V	HP	2
	for three-phase AC n	notor	000/0001/		-
			200/208V	HP	5
			220/230V 460/480V	HP HP	5 7.5
			460/480V 575/600V	HP HP	7.5 10
			575/000	T (F	

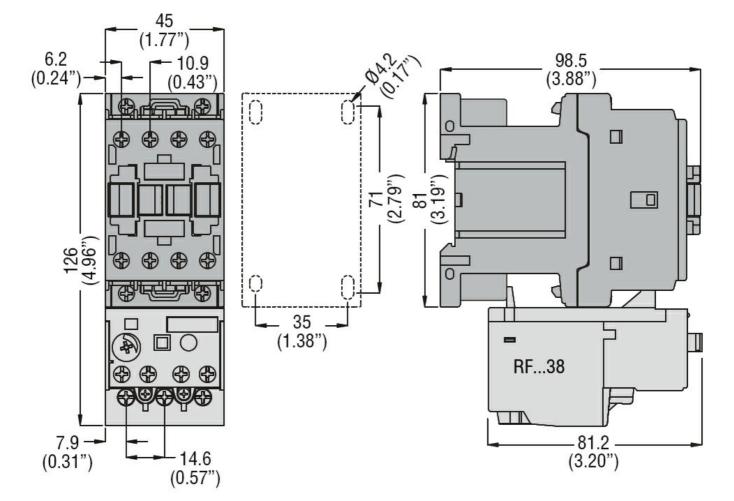


General USE				
	Contactor			
		AC current	А	28
	Auxiliary contacts			
		AC voltage	V	600
		AC current	Α	10
		DC voltage	V	250
		DC current	Α	1
Short-circuit protect	ion fuse, 600V			
	High fault			
		Short circuit current	kA	100
		Fuse rating	А	30
		Fuse class		J
	Standard fault			
		Short circuit current	kA	5
		Fuse rating	Α	70
	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 & Prote	ction			
Pollution degree				3
Dimensions				

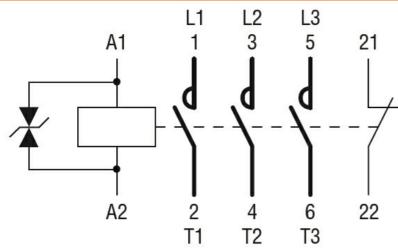
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THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 12A, DC COIL, 24VDC, 1NC AUXILIARY CONTACT



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
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Certificates



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sification	

ETIM 8.0

ETIM clas

EC000066 -Power contactor, AC switching