



Product designation Product type designation			Power contactor BF12
Contact characteristics			DITZ
Number of poles		nr.	3
Rated insulation voltage Ui IEC/EN		V	690
Rated impulse withstand voltage Uimp		kV	6
Operational frequency			Ū
oporational nequency	min	Hz	25
	max	Hz	400
IEC Conventional free air thermal current Ith		A	28
Operational current le			
	AC-1 (≤40°C)	А	28
	AC-1 (≤55°C)	A	23
	AC-1 (≤70°C)	A	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	5.5
	500V	kW	5
	690V	kW	5
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	А	13
	110V	A	6
	220V	A	_
IEC max current le in DC1 with $L/R \le 1$ ms with 2 poles in series			
	≤24V	A	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	A	16



BF1210A12060 THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 12A, AC COIL 60HZ,

lbin

lbin

Nm

Nm

lbft

min max

min

max

min

1.1

1.5

0.8

0.8

1

120VAC, 1NO AUXILIARY CONTACT ENERGY AND AUTOMATION 220V А 11 IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series ≤24V А 20 20 48V А 75V 20 A 110V А 16 220V 12 А IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series А ≤24V 12 48V А 11 75V 10 A 110V А 2

	1101	/ \	_
	220V	А	_
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series			
	≤24V	А	15
	48V	А	13
	75V	А	12
	110V	А	8
	220V	А	2
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series			
	≤24V	А	18
	48V	А	18
	75V	А	15
	110V	А	12
	220V	А	6
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series			
	≤24V	А	15
	48V	А	15
	75V	А	15
	110V	А	16
	220V	А	7
Short-time allowable current for 10s (IEC/EN60947-1)		А	150
Protection fuse			
	gG (IEC)	А	32
	aM (IEC)	А	12
Making capacity (RMS value)		А	120
Breaking capacity at voltage			
	440V	А	96
	500V	А	96
	690V	А	94
Resistance per pole (average value)		mΩ	2.5
Power dissipation per pole (average value)			
· · · · · /	Ith	W	2
	AC3	W	0.4
Tightening torque for terminals			
	min	Nm	1.5
	max	Nm	1.8

Tightoning torque for coil terminal

Tightening to	orque for co	il terminal		



THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 12A, AC COIL 60HZ, 120VAC, 1NO AUXILIARY CONTACT

BF1210A12060

Conductor section Flexible w/o lug conductor section min max mm² f flexible c/w lug conductor section min max mm² f flexible c/w lug conductor section min max mm² f flexible c/w lug conductor section min max mm² f flexible w/o lug conductor section min max mm² f flexible c/w lug conductor section min max mm² f flexible w/o lug conductor section min max mm² f flexible c/w lug conductor section min max mm² f flexible w/o lug conductor section min max mm² f flexible w/o lug conductor section min max mm² f flexible w/o lug conductor section min max mm² f flexible w/o lug conductor section min max mm² f flexible w/o lug conductor section min max mm² f flexible w/o lug conductor section min max mm² f flexible w/o lug conductor section min max mm² f flexible w/o lug conductor section min max mm² f flexible w/o lug conductor section min max mm² f flexible w/o lug conductor section min max mm² f flexible w/o lug conductor section min max mm² f flexible w/o lug conductor section min max mm² f flexible w/o lug conductor section min max mm² f flexible w/o lug conductor section min max mm² f flexible w/o lug conductor section min max mm² f flexible w/o lug conductor section flexible w/o lug conductor section f flexible w/o lu			max	lbft	0.74
Flexible w/o lug conductor section min mm² 1 Plexible c/w lug conductor section min mm² 4 Flexible with insulated spade lug conductor section mm² 4 Power terminal protection according to IEC/EN 60529 P20 when wired Mechanical features rmax mm² 4 Power terminal protection according to IEC/EN 60529 Vertical plan 4 Power terminal protection according to IEC/EN 60529 Vertical plan 4 Power terminal protection according to IEC/EN 60529 Vertical plan 4 Power terminal protection according to IEC/EN 60529 Vertical plan 4.30° Mechanical features Screw / DIN rail Screw / DIN rail Screw / DIN rail Screw / DIN rail Screw / DIN rail Mechanical features 4.00° Period Mechanical features Vertical plan 1.00° Thermal current th A 10° Doperating current DC12 100° A 3.7 Operating current DC13 24/V A 5.7 480° A		simultaneously connectable		nr.	2
min mm² 1 Flexible c/w lug conductor section min mm² 1 max mm² 4 Flexible with insulated spade lug conductor section mm² 1 min mm² 4 Power terminal protection according to IEC/EN 60529 IP20 when wired Mechanical features IP20 when wired Operating position normal 4000' Fixing Screw / DIN rail 35mm Weight g 359 Atxillary contact 1 NO Thermal current thn A 10 Thermal current thn A 10 Circ/EN 60347-5-1 designation X400V A Operating current AC15 230V A 3 Circ/EN 60347-5-1 designation X400V A 1.9 Operating current DC12 110V A 5.7 Operating current DC13 24V A 5.7 Operating current DC13 24V A 5.7 Operating current DC13 24V A 5.7 Operating life cycles 2000000 Electrical life cycles 2000000 Safety related data 2000000 2000000 Mitror co	Conductor section				
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Machanical features Operating position normal allowable Vertical plan ±30° Fixing Screw / DIN rail 35mm Weight g 35m 35mm Auxiliary contact characteristics g Type of contact 1 NO Thermal current lth A 10 10 IEC/EN 60947-5-1 designation A600 - P600 Operating current AC15 230V A 230V A 3 400V A 1.9 500V A 1.4 Operating current DC12 110V A 5.7 48V A 5.7 Operating current DC13 24V A 5.7 Operating current DC13 24V A 1.1 200V A 1.25 125V A 1.1 2125V A 1.1 220V A 0.55 600V A 0.2 2000000 2000000 Electrical life cycles 2000000 2000000 Performance level B10d according to EN/ISO 13489-1 rated load cycles 2000000 Micro contats according to IEC/EN 609474-4-1 yes 2000000 2000000 Micro contats according to IEC/EN 609474-4-1 <td>Power terminal prote</td> <td>ction according to IEC/EN 60529</td> <td></td> <td></td> <td>IP20 when wired</td>	Power terminal prote	ction according to IEC/EN 60529			IP20 when wired
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Operating current DC13 24V A 5.7 48V A 2.9 60V A 2.3 110V A 1.25 125V A 1.1 220V A 0.55 600V A 0.2 Operations Cycles 2000000 A 0.2 Operations cycles 2000000 Cycles 2000000 Electrical life cycles 2000000 Cycles 2000000 Safety related data rated load cycles 2000000 Performance level B10d according to EN/ISO 13489-1 rated load cycles 2000000 Mirror contats according to IEC/EN 609474-4-1 yes 2000000 20000000 20000000 Mirror contats according to IEC/EN 609474-4-1 yes 20000000 20000000 20000000 Mated AC voltage at 60Hz yes yes 20000000 20000000 20000000 20000000 20000000 20000000 20000000 20000000 20000000 20000000 20000000 20000000	Operating current DC		110\/	۸	57
24V A 5.7 48V A 2.9 60V A 2.3 110V A 1.25 125V A 1.1 220V A 0.55 600V A 0.55 600V A 0.2 Operations Mechanical life cycles 2000000 Electrical life cycles 2000000 Safety related data		12	1100	A	5.7
48V A 2.9 60V A 2.3 110V A 1.25 125V A 1.1 220V A 0.55 600V A 0.2 Operations Mechanical life cycles 2000000 Electrical life cycles 2000000 Safety related data Performance level B10d according to EN/ISO 13489-1 rated load cycles 2000000 Mirror contats according to IEC/EN 609474-4-1 yes 20000000 Mated AC voltage at 60Hz V 120 AC coil operating Of 60Hz coil powered at 60Hz pick-up			241/	۸	57
60V A 2.3 110V A 1.25 125V A 1.1 220V A 0.55 600V A 0.2 Operations Mechanical life cycles 2000000 Electrical life cycles 2000000 Safety related data Performance level B10d according to EN/ISO 13489-1 rated load cycles 2000000 Mirror contats according to EN/ISO 13489-1 yes 2000000 Mirror contats according to IEC/EN 609474-4-1 yes 2000000 AC coll operating vitational fiele 120 Ac coll operating Ac coll powered at 60Hz pick-up					
110VA1.25125VA1.1220VA0.55600VA0.2OperationsMechanical lifecycles2000000Electrical lifecycles2000000Safety related datacycles2000000Performance level B10d according to EN/ISO 13489-1rated loadcycles2000000Mirror contats according to IEC/EN 609474-4-1yes2000000Mirror contats according to IEC/EN 609474-4-1yes2000000Mated AC voltage at 60HzV120AC coperatingof 60Hz coil powered at 60Hz pick-up					
125VA1.1220VA0.55600VA0.2OperationsMechanical lifecycles2000000Electrical lifecycles2000000Safety related dataPerformance level B10d according to EN/ISO 13489-1rated loadcycles2000000Mirror contats according to IEC/EN 609474-4-1yesEMC compatibilityyesRated AC voltage at 60HzV120AC coil operatingof 60Hz coil powered at 60Hz pick-up					
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Operations Mechanical life cycles 2000000 Electrical life cycles 2000000 Safety related data rated load cycles 2000000 Performance level B10d according to EN/ISO 13489-1 rated load cycles 2000000 Mirror contats according to IEC/EN 609474-4-1 yes 2000000 20000000 Mirror contats according to IEC/EN 609474-4-1 yes yes EMC compatibility yes yes Rated AC voltage at 60Hz V 120 AC coil operating of 60Hz coil powered at 60Hz v pick-up jeck-up yes					
Electrical life cycles 2000000 Safety related data Performance level B10d according to EN/ISO 13489-1 rated load cycles 2000000 mechanical load cycles 2000000 Mirror contats according to IEC/EN 609474-4-1 EMC compatibility yes EMC compatibility yes Rated AC voltage at 60Hz AC operating voltage of 60Hz coil powered at 60Hz pick-up	Operations				
Electrical life cycles 2000000 Safety related data Performance level B10d according to EN/ISO 13489-1 rated load cycles 2000000 mechanical load cycles 2000000 Mirror contats according to IEC/EN 609474-4-1 EMC compatibility yes Rated AC voltage at 60Hz AC operating AC operating voltage of 60Hz coil powered at 60Hz pick-up	Mechanical life			cycles	2000000
Performance level B10d according to EN/ISO 13489-1 rated load cycles 2000000 mechanical load cycles 2000000 Mirror contats according to IEC/EN 609474-4-1 EMC compatibility yes Rated AC voltage at 60Hz yes Rated AC voltage at 60Hz V 120 AC coil operating AC operating voltage of 60Hz coil powered at 60Hz pick-up	Electrical life				2000000
rated load cycles 2000000 mechanical load cycles 2000000 Mirror contats according to IEC/EN 609474-4-1 yes EMC compatibility yes Rated AC voltage at 60Hz V 120 AC coil operating AC operating voltage of 60Hz coil powered at 60Hz pick-up	Safety related data				
mechanical load cycles 2000000 Mirror contats according to IEC/EN 609474-4-1 yes yes EMC compatibility yes yes Rated AC voltage at 60Hz V 120 AC coil operating V 120 AC operating voltage of 60Hz coil powered at 60Hz yes pick-up pick-up yes	Performance level B1	10d according to EN/ISO 13489-1			
Mirror contats according to IEC/EN 609474-4-1 yes EMC compatibility yes Rated AC voltage at 60Hz V 120 AC coil operating AC operating voltage of 60Hz coil powered at 60Hz pick-up			rated load	cycles	2000000
EMC compatibility yes Rated AC voltage at 60Hz V 120 AC coil operating V 120 AC operating voltage of 60Hz coil powered at 60Hz v pick-up pick-up v		m	echanical load	-	2000000
Rated AC voltage at 60Hz V 120 AC coil operating AC operating voltage V AC operating voltage of 60Hz coil powered at 60Hz pick-up		ling to IEC/EN 609474-4-1			yes
AC coil operating AC operating voltage of 60Hz coil powered at 60Hz pick-up	EMC compatibility				yes
AC operating voltage of 60Hz coil powered at 60Hz pick-up		60Hz		V	120
of 60Hz coil powered at 60Hz pick-up	AC coil operating				
pick-up	AC operating voltage				
min %Us 80		pick-up			
			min	%Us	80

BF1210A12060



THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 12A, AC COIL 60HZ, 120VAC, 1NO AUXILIARY CONTACT

		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 VA	9
	of 50/60Hz coil powered at 60Hz	noiding	٧٨	5
		in-rush	VA	70
		holding	VA	6.5
	of 60Hz coil powered at 60Hz	<u></u>		
		in-rush	VA	75
		holding	VA	9
Dissipation at holding	≤20°C 50Hz		W	2.5
Max cycles frequency				
Mechanical operation			cycles/h	3600
Operating times				
Average time for Us co				
	in AC			
	Closing NO			0
		min	ms	8
	Opening NO	max	ms	24
		min	ms	10
		max	ms	20
	Closing NC	Пах	mo	20
	closing rec	min	ms	14
		max	ms	28
	Opening NC			
		min	ms	7
		max	ms	18
UL technical data				
Full-load current (FLA)	for three-phase AC motor			
		at 480V	А	11
		at 600V	Α	11
Yielded mechanical pe				
	for single-phase AC motor	440/4001		4
		110/120V	HP	1
	for three phase AC mater	230V	HP	2
	for three-phase AC motor	200/208V	HP	5
		200/208V 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	A	1
Short-circuit protection	n fuse, 600V			

Short-circuit protection fuse, 600V

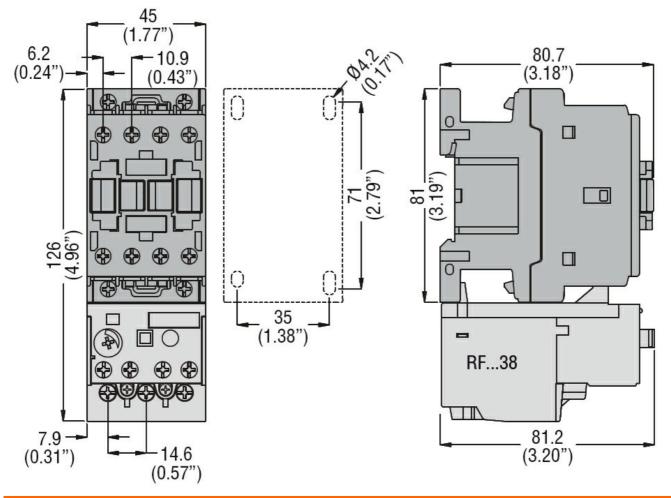


BF1210A12060 THREE-POLE CONTACTOR, IEC OPERATING

G CURRENT IE (AC3) = 12A, AC COIL 60HZ,
120VAC, 1NO AUXILIARY CONTACT

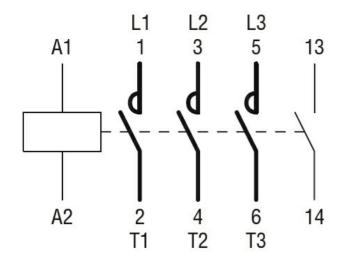
	High fault			
		Short circuit current	kA	100
		Fuse rating	А	30
		Fuse class		J
	Standard fault			
		Short circuit current	kA	5
		Fuse rating	А	70
Contact rating of aux	kiliary contacts according to UL			A600 - P600
Ambient conditions				
Temperature				
	Operating temperature			
		min	°C	-50
		max	°C	70
	Storage temperature			
		min	°C	-60
		max	°C	80
Max altitude			m	3000
Resistance & Protect	ction			
Pollution degree				3
D'				

Dimensions



Wiring diagrams





Certifications and compliance

Compliance

Compliance	
	CSA C22.2 n° 60947-1
	CSA C22.2 n° 60947-4-1
	IEC/EN 60947-1
	IEC/EN 60947-4-1
	UL 60947-1
	UL 60947-4-1
Certificates	
	CCC
	cULus
	EAC
ETIM classification	

ETIM 8.0

EC000066 -Power contactor, AC switching