



Product designation Product type designation			Power contactor BF12
Contact characteristics			D1 12
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
i de la companya de	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	A	20
	48V	A	20
	75V	A	18
	110V	A	13
IFC was a summent to in DC4 with 1/D < 4 with 2 to in x 2	220V	Α	1
IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series	40 AV	^	00
	≤24V	Α	22
	4017		
	48V	A	22
	48V 75V 110V	A A A	22 20 16



	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			
120 max carrent to in 200 200 mar 2/11 = 10 ma mar 2 poise in conse	≤24V	Α	15
	48V	A	13
	75V	A	12
	110V	A	8
	220V	A	2
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series	ZZU V		
TEO MAX current le in 200-2003 with E/K > 13ms with 3 poles in series	≤24V	۸	18
		A	
	48V	A	18
	75V	A	15
	110V	A	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			
	440V	Α	96
	500V	Α	96
	690V	Α	94
Resistance per pole (average value)		mΩ	2.5
Power dissipation per pole (average value)			
1 1 1 1 1 1	lth	W	2
	AC-3	W	0.4
Tightening torque for terminals	, 10 0	• •	U. 1
rightening torque for terminale	min	Nm	1.5
	max	Nm	1.8
	min	Ibin	1.1
Tightoning targue for call terminal	max	lbin	1.5
Tightening torque for coil terminal		N I .	0.0
	min	Nm	0.8
	max	Nm	1
	min	lbin	0.8



		max	Ibin	0.74
Max number of wires	s simultaneously connectable		Nr.	2
Conductor section				
	AWG/Kcmil			
		max		10
	Flexible w/o lug conductor section		2	4
		min	mm² mm²	1 6
	Flexible c/w lug conductor section	max	111111	0
	r lexible c/w lug conductor section	min	mm²	1
		max	mm²	4
	Flexible with insulated spade lug conductor section			
	, ,	min	mm²	1
		max	mm²	4
Power terminal prote	ection according to IEC/EN 60529			IP20 when
·	scholl according to IEO/EN 00329			properly wired
Mechanical features				
Operating position				\/autic=1=1=
		normal allowable		Vertical plan ±30°
		allowable		Screw / DIN rail
Fixing				35mm
Weight			g	500
Auxiliary contact cha	racteristics		<u> </u>	
Thermal current Ith			Α	10
IEC/EN 60947-5-1 d	esignation			A600 - P600
Operating current AC	C15			
		230V	Α	3
		400V	Α	1.9
		500V	Α	1.4
Operating current DO	C12			
		110V	Α	5.7
Operating current DO	D13	0.41.7		
		24V	A	5.7
		48V 60V	A A	2.9 2.3
		110V	A	2.3 1.25
		110V 125V	A	1.1
		220V	A	0.55
		600V	A	0.2
Operations				
Mechanical life			cycles	20000000
Electrical life			cycles	2000000
Safety related data				
Performance level B	10d according to EN/ISO 13489-1			
		rated load	cycles	2000000
		echanical load	cycles	20000000
	ding to IEC/EN 609474-4-1			Yes
EMC compatibility				yes
DC coil operating			\/	220
DC rated control volt			V	220
DC operating voltage				
	pick-up			



min	%Us	70
max	%Us	125
min	%Us	10
max	%Us	40
in-rush	W	5.4
holding	W	5.4
	cycles/h	3600
		8
max	ms	24
		4.0
		10
max	ms	20
min	mc	14
		28
IIIax	1115	20
min	ms	7
		, 18
max	1110	. •
min	ms	54
		66
min	ms	14
max	ms	17
min	ms	24
max	ms	30
min	ms	47
max	ms	57
	V	600
at 480V	Α	11
at 600V	Α	11
		1
230V	HP	2
		_
	HP	5
200/208V		_
220/230V	HP	5
		5 7.5 10
_	min max in-rush holding min max	max %Us min %Us max %Us in-rush W holding W cycles/h min ms max ms v at 480V A at 600V A 110/120V HP

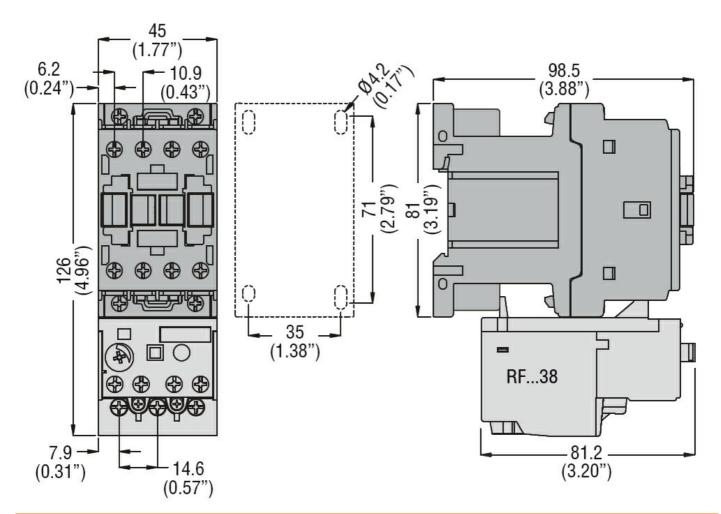




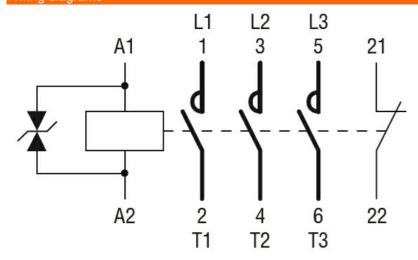
		AC current	Α	28
	Auxiliary contacts			
		AC voltage	V	600
		AC current	Α	10
		DC voltage	V	250
		DC current	Α	1
Short-circuit protectio	n fuse, 600V			
	High fault			
		Short circuit current	kA	100
		Fuse rating	Α	30
		Fuse class		J
	Standard fault			
		Short circuit current	kA	5
		Fuse rating	Α	70
Contact 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	ion			
Pollution degree				3
Dimensions				

ENERGY AND AUTOMATION

THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 12A, DC COIL, 220VDC, 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



BF1201D220

THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 12A, DC COIL, 220VDC, 1NC AUXILIARY CONTACT

CCC	
cULus	
EAC	

ETIM classification

ETIM 8.0

EC000066 -Power contactor, AC switching