





			3 3 1 1 3 2000
Product designation Product type designation			Power contactor BF38
Contact characteristics			
Number of poles		Nr.	4
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	56
Operational current le			
	AC-1 (≤40°C)	Α	56
AC-	-1 (≤40°C) with 16mm² wire and fork end	lugA	60
	AC-1 (≤55°C)	Α	45
AC-	-1 (≤55°C) with 16mm² wire and fork end	lugA	48
	AC-1 (≤70°C)	Α	40
AC-	-1 (≤70°C) with 16mm² wire and fork end	lugA	42
	AC-3 (≤440V ≤55°C)	Α	38
	AC-4 (400V)	Α	15.5
Rated operational power AC-1 (T≤40°C)			
	230V	kW	21
	400V	kW	36
	500V	kW	45
	690V	kW	62
IEC max current le in DC1 with L/R ≤ 1ms with 1 po	les in series		
	≤24V	Α	35
	48V	Α	30
	75V	Α	23
	110V	Α	8
	220V	Α	_
IEC max current le in DC1 with L/R ≤ 1ms with 2 po	les in series		
	≤24V	Α	36
	48V	Α	34
	75V	Α	29
	110V	Α	32
	220V	Α	4
IEC max current le in DC1 with L/R ≤ 1ms with 3 po	les in series		
·	≤24V	Α	36
	48V	Α	34
	75V	Α	33
	110V	Α	34
	220V	Α	30
IEC max current le in DC1 with L/R ≤ 1ms with 4 po			
	≤24V	Α	36
	48V	Α	34
	10 V	, ,	- .



FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 56A, DC COIL, 12VDC

	75V	Α	33
	110V	Α	34
	220V	Α	38
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series			
120 max surrent to in 200 200 with 2112 Tomo with 1 polos in series	≤24V	Α	24
	48V	A	20
	75V		
		A	17
	110V	A	2,5
150 DOO DOO 111 L/D 445 111 O L 1	220V	Α	
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series		_	
	≤24V	Α	28
	48V	Α	25
	75V	Α	22
	110V	Α	18
	220V	Α	3
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series			
	≤24V	Α	32
	48V	Α	28
	75V	Α	28
	110V	Α	23
	220V	Α	25
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series	2201		
120 max current le in 200-200 with 2/10 = 10m3 with 4 poics in series	≤24V	Α	32
	48V	A	28
	75V	A	28
	110V	A	23
01 4 (40 (50 (50 (50 (50 (50 (50 (220V	A	15
Short-time allowable current for 10s (IEC/EN60947-1)		Α	320
Protection fuse			
	gG (IEC)	Α	63
	aM (IEC)	Α	40
Making capacity (RMS value)		Α	380
Breaking capacity at voltage			
	440V	Α	304
	500V	Α	240
	690V	Α	192
Resistance per pole (average value)		mΩ	2
Power dissipation per pole (average value)			
	Ith	W	6
	AC-3	W	2.9
Tightening torque for terminals	AO-3	v v	۷.5
rightening torque for terminals	main	Nlm	2.5
	min	Nm Næ	2.5
	max	Nm	3
	min	lbin	1.8
	max	lbin	2.2
Tightening torque for coil terminal			
	min	Nm	0.8
	max	Nm	1
	min	lbin	0.8
	max	lbin	0.74
Max number of wires simultaneously connectable		Nr.	2
Conductor section			

Conductor section

AWG/Kcmil





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			•
	Flovible w/e lug conductor section		6
	Flexible w/o lug conductor section min	mm²	2.5
	max	mm²	16
	Flexible c/w lug conductor section	-	
	min	mm²	1
	max	mm²	10
	Flexible with insulated spade lug conductor section		
	min	mm²	1
	max	mm²	10
Power terminal protect	ion according to IEC/EN 60529		IP20 when properly wired
Mechanical features			proposity made
Operating position			
	normal		Vertical plan
	allowable		±30°
Fixing			Screw / DIN rail 35mm
Weight		g	660
Operations			
Mechanical life		cycles	20000000
Electrical life		cycles	1400000
Safety related data	Od according to FN//CO 42400 4		
Performance level B10	Od according to EN/ISO 13489-1		4.400000
	rated load mechanical load	cycles cycles	1400000 20000000
EMC compatibility	Triechanical load	cycles	
DC coil operating			yes
DC rated control voltage	ne	V	12
DC operating voltage	,-		
, ,	pick-up		
	min	%Us	80
	max	%Us	125
	drop-out		
	min	%Us	10
<u> </u>	max	%Us	40
Average coil consump		147	E A
	in-rush holding	W W	5.4 5.4
Max cycles frequency		V V	J. 4
Mechanical operation		cycles/h	3600
Operating times		5,0.00/11	
Average time for Us co	ontrol		
-	in AC		
	Closing NO		
	min	ms	8
	max	ms	24
	Opening NO		_
	min	ms	5
	Closing NC	ms	15
	Closing NC min	ms	9
	max	ms	20
	Opening NC	1110	

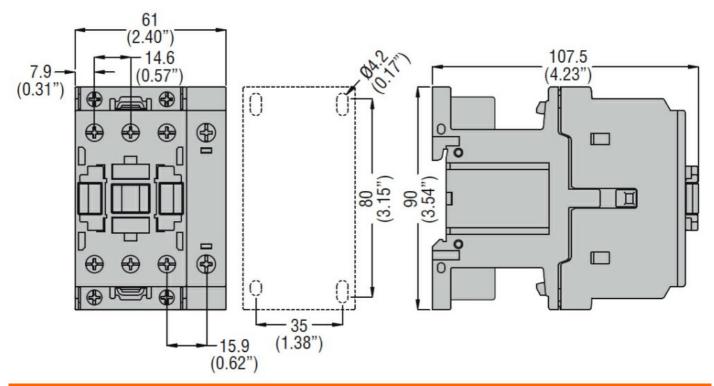




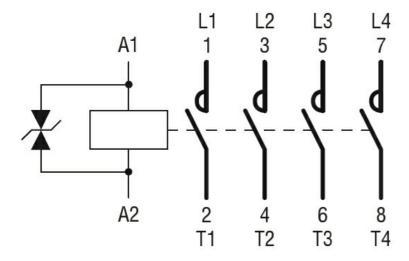
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		min	me	9
			ms	9 17
	in DC	max	ms	17
		ing NO		
	0103	min	ms	54
		max	ms	66
	Oper	ning NO	1110	00
	G po.	min	ms	14
		max	ms	17
UL technical data				
Rated operational voltage	ie AC (UL)		V	600
	or three-phase AC motor			_
,	•	at 480V	Α	40
		at 600V	Α	32
Yielded mechanical perf	ormance			
-	for single-phase AC motor			
	3 7	110/120V	HP	3
		230V	HP	7.5
	for three-phase AC motor			
	, , , , , , , , , , , , , , , , , , ,	200/208V	HP	10
		220/230V	HP	15
		460/480V	HP	30
		575/600V	HP	30
General USE				_
	Contactor			
		AC current	Α	55
Short-circuit protection f	use, 600V			
	High fault			
	-	Short circuit current	kA	100
		Fuse rating	Α	100
		Fuse class		J
	Standard fault			
		Short circuit current	kA	5
		Fuse rating	Α	150
Ambient conditions				
Temperature				
	Operating temperature			
		min	°C	-50
		max	°C	70
	Storage temperature		_	_
		min	°C	-60
		max	°C	80
Max altitude			m	3000
Resistance & Protection	1			
Pollution degree				3
Dimensions				





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

CCC

cULus

EAC

ETIM classification



BF38T4D012

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ETIM 8.0

EC000066 -Power contactor, AC switching