



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	_	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	•		-
	≤24V	A	35
	48V	A	30
	75V	A	23
	110V	A	8
IFC may augreent to in DC1 with L/D < 1 mg with	220V	A	
IEC max current le in DC1 with L/R ≤ 1ms with	•	۸	26
	≤24V 48V	A A	36 34
	75V	A	29
	110V	A	32
	220V	A	4
IEC max current le in DC1 with L/R ≤ 1ms with			
TEO MAX CONTONE TO ME DO F WILL E/TE = THIS WILL	≤24V	Α	36
	48V	A	34
	75V	A	33
	110V	Α	34
	220V	Α	30
IEC max current le in DC1 with L/R ≤ 1ms with			
	≤24V	Α	36
	48V	Α	34
		÷ •	- •



	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			
·	≤24V	Α	24
	48V	Α	20
	75V	Α	17
	110V	Α	2,5
	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 = 10mb mar 2 poice in conce	≤24V	Α	28
	48V	A	25
	75V	A	22
	110V	A	18
IFO	220V	Α	3
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series	-0.01	Α.	20
	≤24V	A	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			
	≤24V	Α	32
	48V	Α	28
	75V	Α	28
	110V	Α	23
	220V	Α	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)	a (.20)	A	380
Breaking capacity at voltage		- , ,	000
broaking dapatity at voltage	440V	Α	304
	500V	A	240
	690V	A	192
Pocietance per pole (average value)	090 V	mΩ	2
Resistance per pole (average value)		11122	
Power dissipation per pole (average value)	Let.	147	•
	Ith	W	6
	AC-3	W	2.9
Tightening torque for terminals			
	min	Nm	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





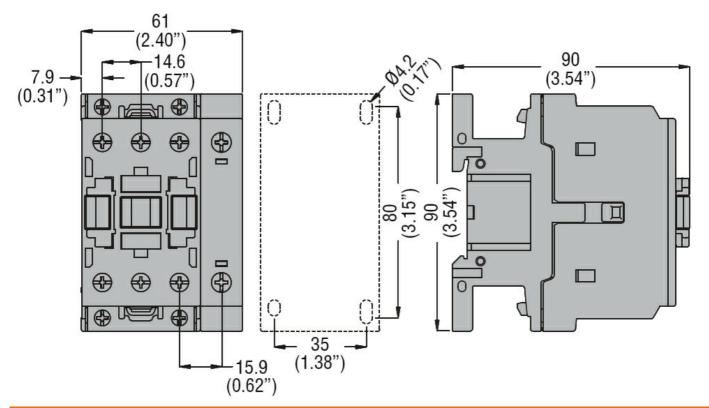
	max		6
	Flexible w/o lug conductor section		0.5
	min	mm²	2.5
	Florible c/w lug conductor section	mm²	16
	Flexible c/w lug conductor section min	mm²	1
	max	mm²	10
	Flexible with insulated spade lug conductor section	111111	10
	min	mm²	1
	max	mm²	10
Power terminal protect	tion according to IEC/EN 60529		IP20 when
Mechanical features			properly wired
Operating position			
operaning perman	normal		Vertical plan
	allowable		±30°
Fixing			Screw / DIN rail
			35mm
Weight		g	504
Conductor section			
	AWG/kcmil conductor section		•
Operations	max		6
Operations Mechanical life		ovolco	20000000
Electrical life		cycles cycles	1400000
Safety related data		Cycles	1400000
	0d according to EN/ISO 13489-1		
1 onomianos isvoi Bri	rated load	cycles	1400000
	mechanical load	cycles	20000000
Mirror contats according	ng to IEC/EN 609474-4-1		yes
EMC compatibility			yes
AC coil operating			
Rated AC voltage at 6	0Hz	V	120
AC operating voltage			
	of 60Hz coil powered at 60Hz		
	pick-up	0/!!	
	min	%Us	80
	drop out	%Us	110
	drop-out min	%Us	20
	max	%Us %Us	55
AC average coil consu		/003	
	of 60Hz coil powered at 60Hz		
	in-rush	VA	75
	holding	VA	9
Dissipation at holding		W	2.5
Max cycles frequency			
Mechanical operation		cycles/h	3600
Operating times			
Average time for Us co			
	in AC		
	Closing NO		
	min	ms	8
	max	ms	24



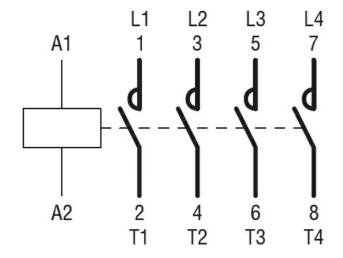


	Opening NO			
		min	ms	5
		max	ms	15
	Closing NC			
		min	ms	9
		max	ms	20
	Opening NC			
		min	ms	9
		max	ms	17
UL technical data				
Full-load current (FLA	for three-phase AC motor			
		at 480V	Α	40
		at 600V	A	32
Yielded mechanical p				
	for single-phase AC motor			
		110/120V	HP	3
		230V	HP	7.5
	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 protectio				
	High fault			
		Short circuit current	kA	100
		Fuse rating	Α	100
		Fuse class		J
	Standard fault			_
		Short circuit current	kA	5
A male is not assert it's		Fuse rating	Α	150
Ambient conditions				
Temperature	On another a to man another			
	Operating temperature	. •	۰.	50
		min	°C	-50 70
	Storage temperature	max	C	70
	Storage temperature		°C	60
		min	°C	-60 80
Max altitude		max		3000
Resistance & Protecti	ion		m	3000
Pollution degree				3
Dimensions				J
Difficusions				





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



BF38T4A12060

FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 56A, AC COIL 60HZ, 120VAC

ETIM 8.0

EC000066 -Power contactor, AC switching