



Product designation			Power contactor
Product type designation			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		60
	AC-1 (≤55°C)	A	45
	AC-1 (≤55°C) with 16mm² wire and fork end		48
	AC-1 (≤55°C) with forming wife and fork one AC-1 (≤70°C)	A	40
	AC-1 (≤70°C) with 16mm² wire and fork end		42
	AC-1 (≤70 C) with forming wire and fork end AC-3 (≤440V ≤55°C)	A	38
	AC-4 (400V)	A	15.5
Rated operational power AC-1 (T≤40°C)	AC-4 (400V)		10.0
Nated operational power AC-1 (1340 C)	2201/	LAM	04
	230V	kW	21
	400V	kW	36
	500V	kW	45
IFO DO4 with 1/D < 4	690V	kW	62
IEC max current le in DC1 with L/R ≤ 1ms wit	·		
	≤24V	Α	35
	48V	A	30
	75V	Α	23
	110V	Α	8
	220V	Α	
IEC max current le in DC1 with L/R ≤ 1ms wit			
	≤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 wit	h 3 poles 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 wit	h 4 poles in series		
	≤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			
	≤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			
	≤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)		Α	380
Breaking capacity at voltage			
	440V	Α	304
	500V	Α	240
	690V	Α	192
Resistance per pole (average value)		$m\Omega$	2
Power dissipation per pole (average value)			
	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			

AWG/Kcmil



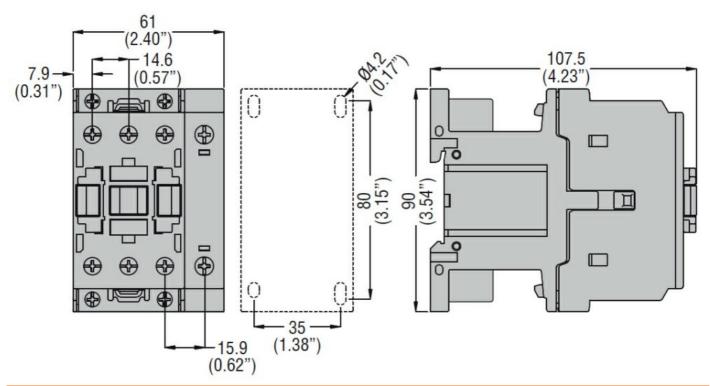


			may		6
	Flexible w/o lug conducto	r section	max		6
	i ionibio w/o lug colludoto	1 00011011	min	mm²	2.5
			max	mm²	16
	Flexible c/w lug conducto	r section			
			min	mm²	1
			max	mm²	10
	Flexible with insulated spa	ade lug conductor sect		2	4
			min	mm² mm²	1 10
			max	111111	IP20 when
Power terminal protect	ion according to IEC/EN 60)529			properly wired
Mechanical features					
Operating position					
			normal		Vertical plan
			allowable		±30°
Fixing					Screw / DIN rail 35mm
Weight				g	660
Conductor section				<u> </u>	
	AWG/kcmil conductor sec	ction			
			max		6
Operations Machanical life				a, l	20000000
Mechanical life Electrical life				cycles	20000000 1400000
Safety related data				cycles	1400000
	od according to EN/ISO 13	489-1			
			rated load	cycles	1400000
			mechanical load	cycles	20000000
Mirror contats according	ng to IEC/EN 609474-4-1				yes
EMC compatibility					yes
DC coil operating					
DC rated control voltage	je			V	220
DC operating voltage	pick-up				
	pick-up		min	%Us	80
			max	%Us	125
	drop-out				
			min	%Us	10
			max	%Us	40
Average coil consumpt	tion ≤20°C			147	F 4
			in-rush	W	5.4 5.4
Max cycles frequency			holding	W	J. 4
Mechanical operation				cycles/h	3600
Operating times				y	
Average time for Us co	ontrol				
	in AC				
	C	losing NO	_		
			min	ms	8
		pening NO	max	ms	24
	C	poining NO	min	ms	5
			max	ms	15

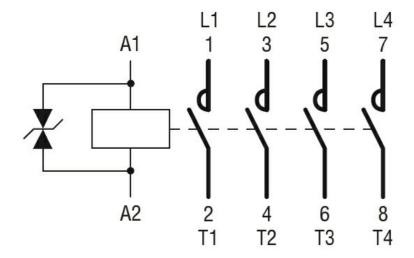


	Closing NC			
	o.comg.ro	min	ms	9
		max	ms	20
	Opening NC			
		min	ms	9
		max	ms	17
	in DC			
	Closing NO			
		min	ms	54
		max	ms	66
	Opening NO			
		min	ms	14
		max	ms	17
UL technical data) for the contract A Contract			
Full-load current (FLA) for three-phase AC motor	-1.400\/	•	40
		at 480V	A	40
Violded machanical na	orformana	at 600V	Α	32
Yielded mechanical pe	errormance for single-phase AC motor			
	for single-phase AC motor	110/120V	HP	3
		230V	HP	7.5
	for three-phase AC motor	2001	- ' ''	1.0
	for three phase Ao 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	n fuse, 600V			
	High fault			
		Short circuit current	kA	100
		Fuse rating	Α	100
		Fuse class		J
	Standard fault	_		_
		Short circuit current	kA	5
A malai a mata a a maliti a mar		Fuse rating	Α	150
Ambient conditions				
Temperature	Operating temperature			
	Operating temperature	min	°C	-50
		max	°C	-30 70
	Storage temperature	παλ		
	go .cp s.a.a.o	min	°C	-60
		max	°C	80
Max altitude			m	3000
Resistance & Protection				
Pollution degree				3
Dimensions				
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ENERGY AND AUTOMATION



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





ETIM 8.0

EC000066 -Power contactor, AC switching