



			•
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	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)	Ã	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 wi			
	≤24V	Α	35
	48V	Α	30
	75V	Α	23
	110V	Α	8
	220V	Α	_
IEC max current le in DC1 with L/R ≤ 1ms wi			
	≤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 wi		- , ,	'
TEO MAX GUITOR TO IT DOT WILL E/TC = 11110 WI	≤24V	Α	36
	48V	A	34
	75V	A	33
	110V	A	34
	220V		30
IEC max current le in DC1 with L/R ≤ 1ms wi		Α	30
iEO max current le in DOT with L/K ≤ 1ms wi		۸	26
	≤24V	A	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	A	25
	75V	A	22
	110V	A	18
	220V	A	3
IEC may current to in DC2 DC5 with L/D < 15mg with 2 notes in series	220 V		3
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series	≤24V	۸	22
	≤24 V 48 V	A	32
		A	28
	75V	A	28
	110V	A	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)		mΩ	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	Ibin	1.8
	max	lbin	2.2
Tightening torque for coil terminal	Пах		
Tighterming torque for our terminal	min	Nm	0.8
	max	Nm	1
	min	Ibin	0.8
May number of wires simultaneously connectable	max	Ibin Nr.	2
Max number of wires simultaneously connectable Conductor section		INI.	۷

Conductor section

AWG/Kcmil





	max		6
Flexible w/o lug conductor section			
	min	mm²	2.5
	max	mm²	16
Flexible c/w lug conductor section		2	4
			1
Electric Michael Land Land Land		mm²	10
Flexible with insulated spade lug conduct			4
			1
	Illax	mm-	10 IP20 when
tion according to IEC/EN 60529			properly wired
			1 1 2
	normal		Vertical plan
	allowable		±30°
			Screw / DIN rail
			35mm
		g	514
AWG/kcmil conductor section			
	max		6
			20000000
		cycles	1400000
2 Lancas Para ta FN//00 40400 4			
Da according to EN/ISO 13489-1	الحمدا الحماسي		4.400000
		-	1400000 20000000
og to JEC/EN 600474 4 1	mechanicai ioau	cycles	
19 10 12 6/211 009474-4-1			yes
			yes
0/60Hz		V	24
0/00112		V	<u> </u>
of 50/60Hz coil powered at 50Hz			
-			
plot up	min	%Us	80
			110
drop-out		· -	
	min	%Us	20
	max	%Us	55
of 50/60Hz coil powered at 60Hz			
pick-up			
	min	%Us	85
	max	%Us	110
drop-out			
	min	%Us	20
	max	%Us	55
of 50/60Hz coil powered at 50Hz			
	in-rush	VA	75
	holding	VA	9
of 50/60Hz coil powered at 60Hz			
	in-rush	VA	70
	Flexible c/w lug conductor section Flexible with insulated spade lug conduct ition according to IEC/EN 60529 AWG/kcmil conductor section Od according to EN/ISO 13489-1 Ing to IEC/EN 609474-4-1 O/60Hz of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up drop-out	Flexible w/o lug conductor section Flexible c/w lug conductor section Flexible with insulated spade lug conductor section min max Flexible with insulated spade lug conductor section min max tion according to IEC/EN 60529 AWG/kcmil conductor section Max AWG/kcmil conductor section Max Od according to EN/ISO 13489-1 rated load mechanical load on the section of 50/60Hz coil powered at 50Hz pick-up min max of 50/60Hz coil powered at 60Hz pick-up min max drop-out min max most of 50/60Hz coil powered at 50Hz in-rush holding of 50/60Hz coil powered at 60Hz	Flexible w/o lug conductor section





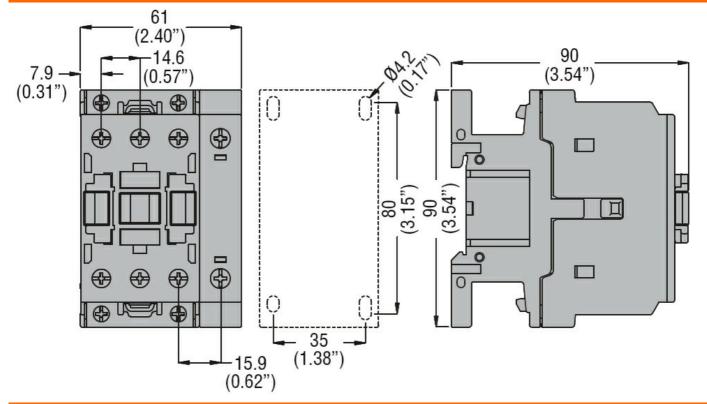
		holding	VA	6.5
	of 60Hz coil powered at 60Hz			
		in-rush	VA	75
		holding	VA	9
Dissipation at holding ≤	20°C 50Hz		W	2.5
Max cycles frequency				
Mechanical operation			cycles/h	3600
Operating times				
Average time for Us co				
	in AC			
	Closing NO	min	ms	8
		max	ms	24
	Opening NO	max	1113	27
	Oponing 110	min	ms	5
		max	ms	15
	Closing NC			
	5.c.c 3	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	Α	32
Yielded mechanical pe				
	for single-phase AC motor	44044004		
		110/120V	HP	3
	fanthar ahar AO matan	230V	HP	7.5
	for three-phase AC motor	200/208V	HP	10
		200/200V 220/230V	HP	15
		460/480V	HP	30
		575/600V	HP	30
General USE		010/000V		
	Contactor			
		AC current	Α	55
Short-circuit protection	fuse, 600V	2 33 3		
•	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		0.0	50
		min	°C	-50 -70
	Ctoro ao tomo anti-	max	°C	70
	Storage temperature	man fra	°C	60
		min	°C	-60 80
		max	U	80

ENERGY AND AUTOMATION

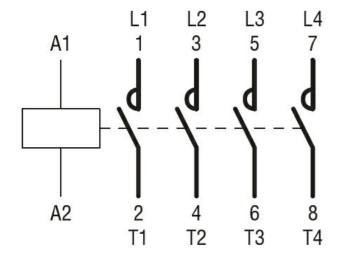
FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 56A, AC COIL 50/60HZ, 24VAC

Max altitude	m	3000
Resistance & Protection		
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



BF38T4A024

FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 56A, AC COIL 50/60HZ, 24VAC

cULus			
EAC			

ETIM classification

ETIM 8.0

EC000066 -Power contactor, AC switching