



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		60
	AC-1 (≤55°C)	Α	45
	AC-1 (≤55°C) with 16mm² wire and fork end	_	48
	AC-1 (≤70°C)	Α	40
	AC-1 (≤70°C) with 16mm² wire and fork end	-	42
	AC-3 (≤440V ≤55°C)	A	38
D-t-1	AC-4 (400V)	Α	15.5
Rated operational power AC-1 (T≤40°C)	0001/	1.347	0.4
	230V	kW	21
	400V	kW	36
	500V 690V	kW kW	45 62
IEC max current le in DC1 with L/R ≤ 1ms with		KVV	02
TEC THAX CUITETIL TE ITI DCT WILLT L/N > THIS WILL	≤24V	Α	35
	48V	A	30
	75V	A	23
	110V	Α	8
	220V	Α	_
IEC max current le in DC1 with L/R ≤ 1ms with			
	≤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	n 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 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			
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 H	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 2 forms 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			

AWG/Kcmil





		may		6
	Flexible w/o lug conductor section	max		0
	o.n.c.o .i, o ia.g contactor. coonen	min	mm²	2.5
		max	mm²	16
	Flexible c/w lug conductor section			
		min	mm²	1
		max	mm²	10
	Flexible with insulated spade lug conducte		mm²	1
		min max	mm²	10
		тих		IP20 when
Power terminal protec	tion according to IEC/EN 60529			properly wired
Mechanical features				
Operating position				
		normal		Vertical plan
		allowable		±30° Screw / DIN rail
Fixing				35mm
Weight			g	513
Conductor section				
	AWG/kcmil conductor section			
		max		6
Operations				00000000
Mechanical life			cycles	20000000
Electrical life			cycles	1400000
Safety related data	0d according to EN/ISO 13489-1			
renormance level by	od according to EN/15O 15469-1	rated load	cycles	1400000
		mechanical load	cycles	20000000
Mirror contats accordi	ng to IEC/EN 609474-4-1		- 7	yes
EMC compatibility				yes
AC coil operating				
Rated AC voltage at 5	60/60Hz		V	48
AC operating voltage				
	of 50/60Hz coil powered at 50Hz			
	pick-up	min	%Us	80
		max	%Us	110
	drop-out	παλ	/0 0 3	. 10
	3.0p 0at	min	%Us	20
		max	%Us	55
	of 50/60Hz coil powered at 60Hz			
	pick-up			
		min	%Us	85
	ع .	max	%Us	110
	drop-out	min	%Us	20
		max	%Us	55
AC average coil consu	umption at 20°C	max	,,,,,	
	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





		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 31.1.		
•	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

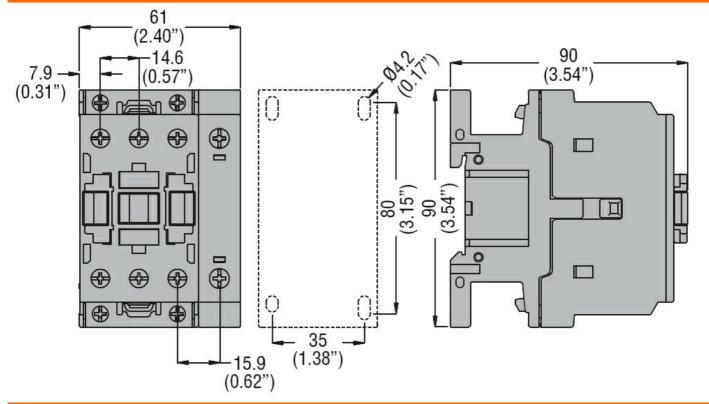
FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 56A, AC COIL 50/60HZ, 48VAC

Max altitude m 3000

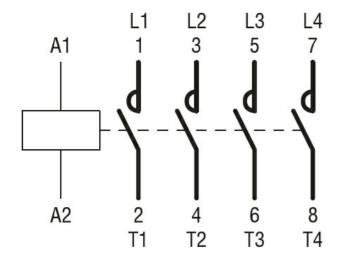
Resistance & Protection

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



BF38T4A048

FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 56A, AC COIL 50/60HZ, 48VAC

cULus			
EAC			

ETIM classification

ETIM 8.0

EC000066 -Power contactor, AC switching