



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			
op eremented question	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 (≤70°C)	A	40
	AC-1 (≤70°C) with 16mm² wire and fork end		42
	AC-3 (≤440V ≤55°C)	A	38
	AC-4 (400V)	Α	15.5
Rated operational power AC-1 (T≤40°C)	7.6 1 (1661)		10.0
rated sperational power / to 1 (1216 b)	230V	kW	21
	400V	kW	36
	500V	kW	45
	690V	kW	62
IEC max current le in DC1 with L/R ≤ 1ms w			
120 max carrent to in 201 with 2/10 = time w	≤24V	Α	35
	48V	Α	30
	75V	Α	23
	110V	Α	8
	220V	A	-
IEC max current le in DC1 with L/R ≤ 1ms w			
TEO MAX CUITCHE IN DOT WITH E/N = 11113 W	≤24V	Α	36
	48V	Α	34
	75V	A	29
	110V	A	32
	220V	A	4
IEC max current le in DC1 with L/R ≤ 1ms w			_
TEO MAX CUITCHE IN DOT WITH E/TC = 11113 W	≤24V	Α	36
	48V	A	34
	75V	A	33
	110V		
		A	34
IFC may autrent to in DC4 with 1/D < 4	220V	Α	30
IEC max current le in DC1 with L/R ≤ 1ms w	•	Δ.	00
	≤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			
120 max carrent to in 200 200 mar 2/10 Tomo mar 2 poise in control	≤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	-0.07	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 (120)	A	380
Breaking capacity at voltage		- , ,	
Dicalling capacity at voltage	440V	Α	304
	500V	A	240
	690V	A	192
Pacietanea par pala (avaraga valua)	090 V	mΩ	2
Resistance per pole (average value)		11122	
Power dissipation per pole (average value)	141	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	Ibin	0.74
Max number of wires simultaneously connectable	11107	Nr.	2
Conductor section			

Conductor section

AWG/Kcmil





		max		6
	Flexible w/o lug conductor section	ПОХ		
	Ğ	min	mm²	2.5
		max	mm²	16
	Flexible c/w lug conductor section		2	
		min	mm²	1
	Flexible with insulated spade lug conduc	tor section	mm²	10
	Flexible with insulated space log conduc	min	mm²	1
		max	mm²	10
Power terminal protect	tion according to IEC/EN 60529			IP20 when
	tion according to 120/214 00025			properly wired
Mechanical features				
Operating position		normal		Vertical plan
		allowable		±30°
		anomabio		Screw / DIN rail
Fixing				35mm
Weight			g	514
Operations				
Mechanical life			cycles	20000000
Electrical life			cycles	1400000
Safety related data Performance level B10	0d according to EN/ISO 13489-1			
. Shormanoc level Div	od doosiding to Environ 10400 1	rated load	cycles	1400000
		mechanical load	cycles	20000000
EMC compatibility			<u> </u>	yes
AC coil operating				
Rated AC voltage at 5	0/60Hz		V	24
AC operating voltage				
	of 50/60Hz coil powered at 50Hz			
	pick-up	min	%Us	80
		min max	%Us	110
	drop-out	max	7003	110
	a. op 3 a.	min	%Us	20
		max	%Us	55
	of 50/60Hz coil powered at 60Hz			
	pick-up			
		min	%Us	85
	المناج حالم	max	%Us	110
	drop-out	min	%Us	20
		max	%Us	55
AC average coil consu	umption at 20°C	max		 _
5	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 COLLE goil naviered at COLLE			
	of 60Hz coil powered at 60Hz		\/Δ	75
	of 60Hz coil powered at 60Hz	in-rush holding	VA VA	75 9

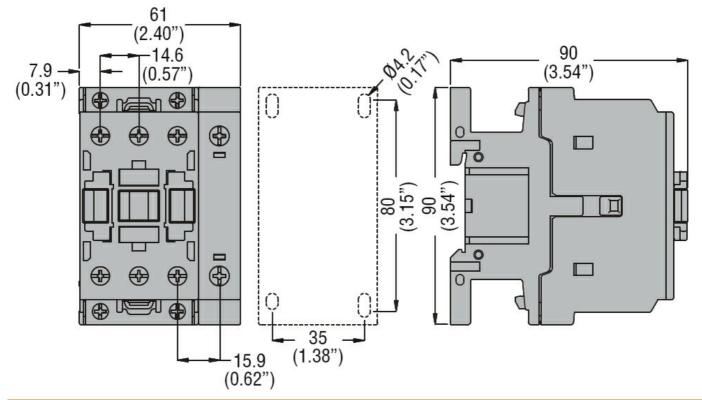


Dissipation at holding	≤20°C 50Hz		W	2.5
Max cycles frequency				
Mechanical operation			cycles/h	3600
Operating times				
Average time for Us of				
	in AC			
	Closing NO			0
		min	ms	8
	Opening NO	max	ms	24
	Opening NO	min	me	5
		max	ms ms	15
	Closing NC	IIIdx	1113	13
	Closing NC	min	ms	9
		max	ms	20
	Opening NC	Παλ	1113	20
	Opening No	min	ms	9
		max	ms	17
UL technical data		IIIdA	1113	
Rated operational vol	tage AC (UL)		V	600
	(s) for three-phase AC motor		<u> </u>	
(, , , , , , , , , , , , , , , , , , , ,	at 480V	Α	40
		at 600V	Α	32
Yielded mechanical p	erformance			
	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	n fuse, 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 & Protect	ion			
Pollution degree				3

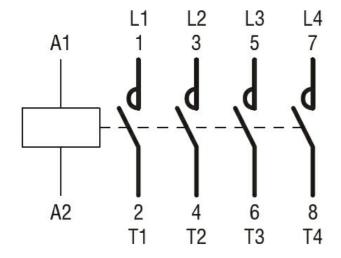
ENERGY AND AUTOMATION

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

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



BF38T4A024

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

ETIM 8.0

EC000066 -Power contactor, AC switching