



Product type designation			Power contactor BF38
Contact characteristics			2.00
Number of poles		nr.	3
Rated insulation voltage Ui IEC/EN		V	690
Rated impulse withstand voltage Uimp		kV	6
Operational frequency			
• • •	min	Hz	25
	max	Hz	400
Conventional free air thermal current Ith IEC/EN		Α	56
Operational current le			
	AC-1 (≤40°C)	Α	56
	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
Rated operational power AC-3 (T≤55°C)			
	230V	kW	11
	400V	kW	18.5
	415V	kW	18.5
	440V	kW	18.5
	500V	kW	20
	690V	kW	22
Short-time allowable current for 10s (IEC/EN60947-1)		A	320
Protection fuse			
	gG (IEC)	Α	63
<del></del>	aM (IEC)	A	40
Making capacity (RMS value)		Α	380
Breaking capacity at voltage			
	440V	Α	304
	500V	Α	240
- I (	690V	A	192
Resistance per pole (average value)		mΩ	2
Power dissipation per pole (average value)	101	147	•
	Ith	W	6
Tightoning targue for terminals	AC3	W	2.9
Tightening torque for terminals	2.1.	NI	2.5
	min	Nm Nm	2.5
	max	Nm	3
	min	lbin Ibin	1.8
Tightening torque for coil terminal	max	lbin	2.2



BF3800A024

		min	Nm	0.8
		max	Nm	1
		min	lbft	0.8
		max	lbft	0.74
Max number of wires s	simultaneously connectable		nr.	2
Conductor section				
Conductor Cochon	AWG			
	AWG	/kcmil min		14
		/kcmil max		
	Florible/s has sometimes a still	/KCIIII IIIAX		6
	Flexible w/o lug conductor section		2	0.5
		min	mm²	2.5
		max	mm²	16
	Flexible c/w lug conductor section			
		min	mm²	1
		max	mm²	10
	Flexible with insulated spade lug cor	nductor section		
	-	min	mm²	1
		max	mm²	10
Power terminal protect	tion according to IEC/EN 60529			IP20 when wired
Auxiliary contact chara				
Operational current le			Α	56
Operating current DC1			- , ,	
Operating current bor		440)/	۸	Screw / DIN rail
		110V	Α	35mm
Ambient conditions				
Temperature				
	Operating temperature			
	operating temperature	min	°C	-50
		max	°C	70
	Storage temperature	Hax		10
	Storage temperature	min	°C	60
		min		-60
		max	°C	80
Max altitude			m	3000
Operational position				
		Operating position normal		vertical plan
		Operating position allowable		±30°
Fixing				Screw / DIN rail
- IAIIIY				35mm
Weight			g	0.429
Operations				
Mechanical life			Cycles	20000000
Electrical life			Cycles	1400000
Safety related data			_ , 5.00	
•	0d according to EN/ISO 13489-1			
i chomiance ievei DT	od dooording to E14/100 10403-1	rotod lood	Ciali	1400000
		rated load	Cicli	1400000
B.4'		mechanical load	Cicli	2000000
and the second s	ng to IEC/EN 609474-4-1			yes
EMC compatibility				yes
AC coil operating				
AC operating voltage				
	of 50/60Hz coil powered at 50Hz			
	pick-up			
		min	%Us	0.8



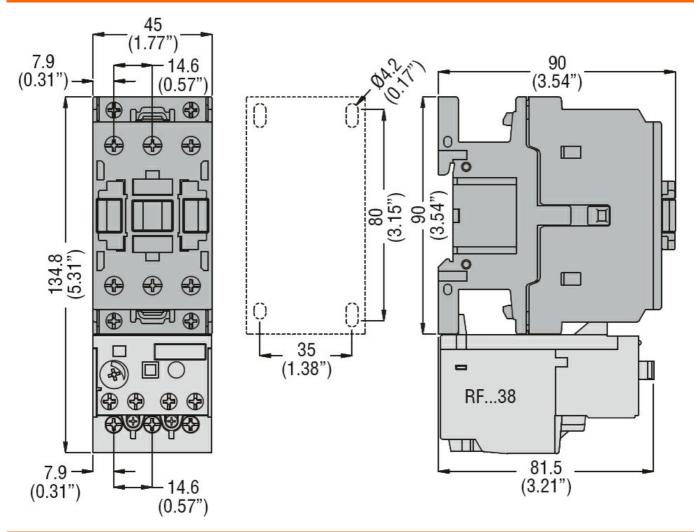


			max	%Us	1.1
		drop-out			
			min	%Us	0.2
			max	%Us	0.55
	of 50/60Hz coil powered				
		pick-up			
			min	%Us	0.85
			max	%Us	1.1
		drop-out		0/116	0.0
			min	%Us %Us	0.2
	of COLLT poil nowared at		max	%US	0.55
	of 60Hz coil powered at				
		pick-up	min	%Us	0.8
			max	%Us	1.1
		drop-out	max	7003	1.1
		a.op out	min	%Us	0.2
			max	%Us	0.55
AC operating voltage					
	of 50/60Hz coil powered	d at 50Hz			
			rush	VA	75
			ding	VA	9
	of 50/60Hz coil powered				_
	·		rush	VA	70
		hol	ding	VA	6.5
	of 60Hz coil powered at	60Hz			
	·		rush	VA	75
		hol	ding	VA	9
Dissipation at holding:	-0000 FOLL				0.5
	\$20°C 50Hz			W	2.5
Max cycles frequency	\$20°C 50Hz				
Max cycles frequency Mechanical operations	\$20°C 50Hz		C	W Sycles/h	
Max cycles frequency Mechanical operations Operating times			C		
Max cycles frequency Mechanical operations	ontrol		С		
Max cycles frequency Mechanical operations Operating times	ontrol in AC		C		
Max cycles frequency Mechanical operations Operating times	ontrol in AC	Closing NO		ycles/h	3600
Max cycles frequency Mechanical operations Operating times	ontrol in AC	-	min	cycles/h	3600
Max cycles frequency Mechanical operations Operating times	ontrol in AC	-		ycles/h	3600
Max cycles frequency Mechanical operations Operating times	ontrol in AC	-	min max	ms ms	3600 8 24
Max cycles frequency Mechanical operations Operating times	ontrol in AC	Opening NO	min max min	ms ms ms	3600 8 24 5
Max cycles frequency Mechanical operations Operating times Average time for Us co	ontrol in AC	Opening NO	min max	ms ms	3600 8 24
Max cycles frequency Mechanical operations Operating times Average time for Us co	ontrol in AC	Opening NO	min max min	ms ms ms	3600 8 24 5
Max cycles frequency Mechanical operations Operating times Average time for Us co	ontrol in AC	Opening NO	min max min max	ms ms ms ms	3600 8 24 5 15
Max cycles frequency Mechanical operations Operating times Average time for Us co	ontrol in AC	Opening NO r at 4	min max min max	ms ms ms ms	3600 8 24 5 15
Max cycles frequency Mechanical operations Operating times Average time for Us co	ontrol in AC for three-phase AC moto	Opening NO r at 4	min max min max	ms ms ms ms	3600 8 24 5 15
Max cycles frequency Mechanical operations Operating times Average time for Us co	ontrol in AC for three-phase AC moto	Opening NO  r  at 4 at 6	min max min max	ms ms ms ms	3600 8 24 5 15
Max cycles frequency Mechanical operations Operating times Average time for Us co	ontrol in AC for three-phase AC moto	Opening NO  r  at 4  at 6	min max min max	ms ms ms ms	3600 8 24 5 15
Max cycles frequency Mechanical operations Operating times Average time for Us co	ontrol in AC for three-phase AC moto	Opening NO  r  at 4 at 6	min max min max 880V 600V	ms ms ms ms A A	3600 8 24 5 15 40 32
Max cycles frequency Mechanical operations Operating times Average time for Us co	ontrol in AC  for three-phase AC moto rformance for for single-phase AC mo	Opening NO  r  at 4  at 6  tor  Yielded mechanical performance 110/  Yielded mechanical performance 2	min max min max 880V 600V	ms ms ms ms A A	3600 8 24 5 15 40 32
Max cycles frequency Mechanical operations Operating times Average time for Us co	ontrol in AC  for three-phase AC moto  rformance for for single-phase AC mot	Opening NO  r  at 4  at 6  tor  Yielded mechanical performance 110/  Yielded mechanical performance 2	min max min max 880V 600V /120V	ms ms ms ms A A	3600 8 24 5 15 40 32
Max cycles frequency Mechanical operations Operating times Average time for Us co	ontrol in AC  for three-phase AC moto  rformance for for single-phase AC mot	Opening NO  r	min max min max 880V 600V /120V 230V	ms ms ms ms A A	3600 8 24 5 15 40 32 3 7.5
Max cycles frequency Mechanical operations Operating times Average time for Us co	ontrol in AC  for three-phase AC moto  rformance for for single-phase AC mot	Opening NO  r	min max min max 880V 600V /120V /230V /208V /230V	ms ms ms ms hp	3600 8 24 5 15 40 32 3 7.5
Max cycles frequency Mechanical operations Operating times Average time for Us co  UL technical data Full-load current (FLA)  Yielded mechanical pe	ontrol in AC  for three-phase AC moto  rformance for for single-phase AC mot	Opening NO  r at 4 at 6  tor Yielded mechanical performance 110 Yielded mechanical performance 2 or Yielded mechanical performance 200 Yielded mechanical performance 220 Yielded mechanical performance 220	min max min max 480V 500V /120V /30V /230V /230V /480V	ms ms ms ms hp	3600 8 24 5 15 40 32 3 7.5 10 15
Max cycles frequency Mechanical operations Operating times Average time for Us co	ontrol in AC  for three-phase AC moto  rformance for for single-phase AC mot	r at 4 at 6  tor Yielded mechanical performance 110, Yielded mechanical performance 2 or Yielded mechanical performance 200, Yielded mechanical performance 220, Yielded mechanical performance 460,	min max min max 480V 500V /120V /30V /230V /230V /480V	ms ms ms hp hp hp hp	3600 8 24 5 15 40 32 3 7.5 10 15 30

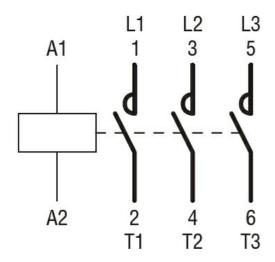


Contactor

	AC current	Α	32	
Other features				
Pollution degree			3	
Dimensions				



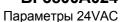
## Wiring diagrams



## Certifications and compliance

## Certifications







	CSA C22.2 n° 60947-1
	CSA C22.2 n° 60947-4-1
	IEC/EN 60947-1
	IEC/EN 60947-4-1
	UL 60947-1
	UL 60947-4-1
Compliance	
	CCC
	cULus
	EAC

ETIM 6 classification

EC000066 - Power contactor, AC switching