THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 38A, AC COIL 50/60HZ, 24VAC



Product designation Product type designation			Power contactor BF38
Contact characteristics			5. 00
Number of poles		nr.	3
Rated insulation voltage Ui		V	690
Rated impulse withstand voltage Uimp		kV	6
Operating frequency			
operating nequency	Operational frequency min	Hz	25
	Operational frequency max	Hz	400
Conventional free air thermal current Ith	operational mequancy man	Α	56
Operating current			
operating earrorn	Operational current AC1 (≤40°C)	Α	56
	Operational current AC3 (≤440V ≤55°C)	Α	38
	Operational current AC4 (400V)	Α	15.5
Rated operational power AC1 (T≤40°C)	5 p. s.		
,	230V	kW	21
	400V	kW	36
	500V	kW	45
	690V	kW	62
Rated operational power AC3 (T≤55°C)	0001	1000	- 02
rates operational power rice (1=00 0)	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/EN6		Α	320
Protection fuse	,		
	gG (IEC)	Α	63
	aM (IEC)	Α	40
Making capacity (RMS value)	(/	Α	380
Breaking capacity at voltage			
5 1 75	Breaking capacity 440V	Α	304
	Breaking capacity 500V	Α	240
	Breaking capacity 690V	Α	192
Resistance per pole (average value)	3 3 4 4 5 5	mΩ	2
Power dissipation per pole (average value)			
1 1 1 1 (3 1 1 3 3 3 3 4 4)	Power dissipation pole (average value) Ith	W	6
	AC3	W	2.9
Tightening torque for terminals			
	min	Nm	2.5
	max	Nm	3
	min	lbft	1.8

Tightening torque for coil terminal



THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 38A, AC COIL 50/60HZ, 24VAC

		min	Nm	0.8
		max	Nm	1
		min	lbft	0.8
	 	max	lbft	0.74
	simultaneously connectable		nr.	2
Conductor section				
	AWG	_		
		min		14
		max		6
	Flexible w/o lug conductor section		2	0.5
		min	mm²	2.5
	Fig. 21 / . L L /	max	mm²	16
	Flexible c/w lug conductor section	•		4
		min	mm²	1
		max	mm²	10
	Flexible with insulated spade lug conductor section			4
		min	mm²	1
		max	mm²	10
-	ction according to IEC/EN 60529			IP20 when wired
Auxiliary contact chara			^	50
Operational current A			Α	56
Operating current DC	13			O / DIN"
		110V	Α	Screw / DIN rail 35mm
Ambient conditions				3311111
Temperature	Operating temperature			
	Operating temperature	min	°C	-50
			°C	70
	Storage temperature	max	<u> </u>	70
	Storage temperature	min	°C	-60
			°C	80
Max altitude		max		3000
Operating position			m	3000
Operating position		normal		Vartical plan
		normal allowable		Vertical plan ±30°
-		allowable		Screw / DIN rail
Mounting				
				35mm
Weight				35mm 0.429
Weight			g	0.429
Operations				0.429
Operations Mechanical life			Cycles	0.429 20000000
Operations Mechanical life Electrical life				0.429
Operations Mechanical life Electrical life Safety related data	Od according to EN/ISO 13489-1		Cycles	0.429 20000000
Operations Mechanical life Electrical life Safety related data	0d according to EN/ISO 13489-1	rated load	Cycles Cycles	20000000 1400000
Operations Mechanical life Electrical life Safety related data	•	rated load	Cycles Cycles Cicli	0.429 20000000 1400000
Operations Mechanical life Electrical life Safety related data Performance level B1		rated load mechanical load	Cycles Cycles	0.429 20000000 1400000 1400000 20000000
Operations Mechanical life Electrical life Safety related data Performance level B1 Mirror contats accordi	•		Cycles Cycles Cicli	0.429 20000000 1400000 1400000 200000000 yes
Operations Mechanical life Electrical life Safety related data Performance level B1 Mirror contats accordi EMC compatibility			Cycles Cycles Cicli	0.429 20000000 1400000 1400000 20000000
Operations Mechanical life Electrical life Safety related data Performance level B1 Mirror contats accordi EMC compatibility AC coil operating			Cycles Cycles Cicli	0.429 20000000 1400000 1400000 200000000 yes
Operations Mechanical life Electrical life Safety related data Performance level B1 Mirror contats accordi EMC compatibility	ing to IEC/EN 609474-4-1		Cycles Cycles Cicli	0.429 20000000 1400000 1400000 200000000 yes
Operations Mechanical life Electrical life Safety related data Performance level B1 Mirror contats accordi EMC compatibility AC coil operating	of 50/60Hz coil powered at 50Hz		Cycles Cycles Cicli	0.429 20000000 1400000 1400000 200000000 yes
Operations Mechanical life Electrical life Safety related data Performance level B1 Mirror contats accordi EMC compatibility AC coil operating	ing to IEC/EN 609474-4-1		Cycles Cycles Cicli	0.429 20000000 1400000 1400000 200000000 yes





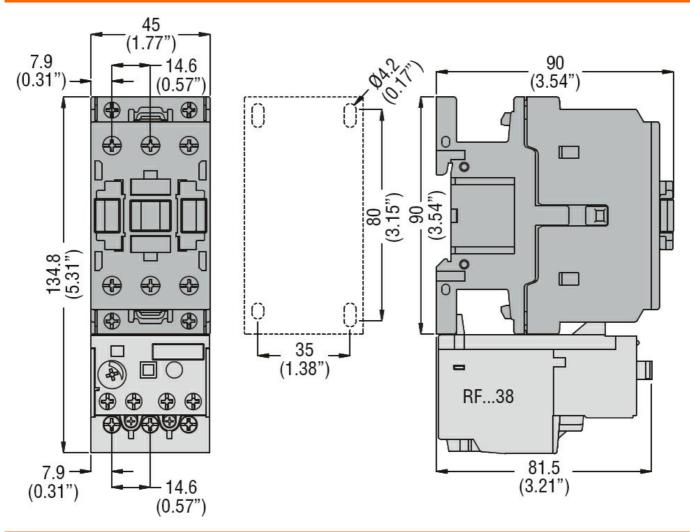
THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 38A, AC COIL 50/60HZ, 24VAC

		max	%Us	1.1
	drop-out			
		min	%Us	0.2
		max	%Us	0.55
	of 50/60Hz coil powered at 60Hz			
	pick-up			
	plan ap	min	%Us	0.85
		max	%Us	1.1
	drop-out		,,,,,	
	arop out	min	%Us	0.2
		max	%Us	0.55
	of 60Hz coil powered at 60Hz	Пах	7000	0.00
	pick-up			
	ρισκ-αρ	min	%Us	0.8
		max	%Us	1.1
	drop out	IIIax	/005	1.1
	drop-out	min	%Us	0.2
A O		max	%Us	0.55
AC operating voltage	(50/00LL			
	of 50/60Hz coil powered at 50Hz	2 1	1.74	75
		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 operations			Cycles/h	3600
Operating times				
Average time for Us co	ontrol			
	in AC			
	Closing NO			
		min	ms	8
		max	ms	24
	Opening NO			
		min	ms	5
		max	ms	15
UL technical data				
Full-load current (FLA)	for three-phase AC motor			
,		at 480V	Α	40
		at 600V	Α	32
Yielded mechanical pe	erformance			
'	for single-phase AC motor			
	g.c p	at 110/120V	hp	3
		at 230V	hp	7.5
	for three-phase AC motor	3. 200 V	٠.٢	
	is. and phase no motor	at 200/208V	hp	10
		at 220/230V	hp	15
		at 460/480V	hp	30
		at 575/600V	hp	30
General USE		at 07 0/000 V	ייף	

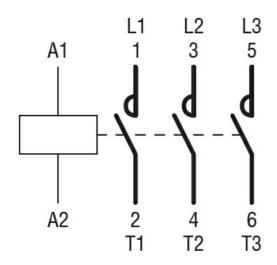
THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 38A, AC COIL 50/60HZ,

Contactor

	AC current	Α	32	
Other features				
Pollution degree			3	
Dimensions				



Wiring diagrams



Certifications and compliance

Certifications



BF3800A024

THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 38A, AC COIL 50/60HZ,

	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