

### THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 38A, AC COIL 60HZ, 460VAC



Product designation Product type designation			Power contactor BF38
Contact characteristics			
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
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	_	42
	AC-3 (≤440V ≤55°C)	Α	38
	AC-4 (400V)	A	15.5
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
Dated energtional negues AC 1 (T<10°C)	690V	kW	22
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 wit		IXVV	<u> </u>
indication bot with Little tills with	≤24V	Α	35
	48V	Α	30
	75V	Α	23
	110V	Α	8
	220V	Α	_
IEC max current le in DC1 with L/R ≤ 1ms wit			_
	≤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 wit	h 3 poles in series		
	≤24V	Α	36



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

	48V	Α	34
	75V	Α	33
	110V	Α	34
	220V	Α	30
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series			
	≤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			
	≤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	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			
	≤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	lbin	1.8
	max	Ibin	2.2
Tightening torque for coil terminal			

Tightening torque for coil terminal





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

			Nima	0.0
		min max	Nm Nm	0.8 1
		min	Ibin	0.8
		max	lbin	0.74
Max number of wires	simultaneously connectable	1167	Nr.	2
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		•	
		min	mm²	1
	Electric St. Sec. Late Level Letter and Letter	max	mm²	10
	Flexible with insulated spade lug conduct		mama <sup>2</sup>	1
		min	mm² mm²	1 10
		max	111111	IP20 when
Power terminal prote	ection according to IEC/EN 60529			properly wired
Mechanical features				1 -1 2119 111100
Operating position				
		normal		Vertical plan
		allowable		±30°
Fixing				Screw / DIN rail 35mm
Weight			g	422
Conductor section				
	AWG/kcmil conductor section			
0 4		max		6
Operations				0000000
Mechanical life Electrical life			cycles	20000000
Safety related data			cycles	1400000
	10d according to EN/ISO 13489-1			
T CHOITHANGE ICVCI D	Tod according to ETV/100 13403 1	rated load	cycles	1400000
		mechanical load	cycles	20000000
Mirror contats accord	ding to IEC/EN 609474-4-1		- 7	yes
EMC compatibility	-			yes
AC coil operating				,
Rated AC voltage at	60Hz		V	460
AC operating voltage	9			
	of 60Hz coil powered at 60Hz			
	pick-up			
		min	%Us	80
		max	%Us	110
	drop-out			
		min	%Us	20
A.O		max	%Us	55
AC average coil cons	•			
	of 60Hz coil powered at 60Hz	tar area l	١/٨	75
		in-rush	VA VA	75 9
Discipation at halding	7 <20°C 50∐-7	holding		
Dissipation at holding			W	2.5
Max cycles frequenc	У			



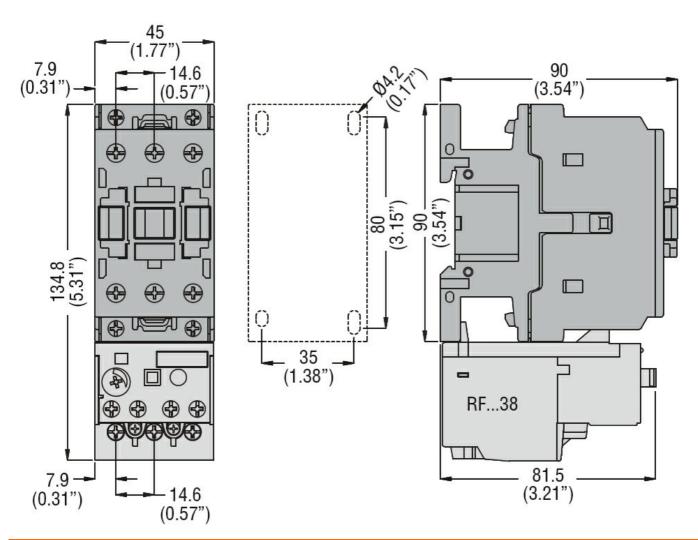


## THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 38A, AC COIL 60HZ,

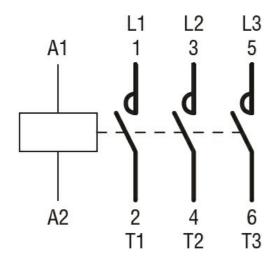
Mechanical operation	on		cycles/h	3600
Operating times				
Average time for U	s control			
-	in AC			
	Closing NO			
	_	min	ms	8
		max	ms	24
	Opening NO			
		min	ms	5
		max	ms	15
	Closing NC			
		min	ms	9
		max	ms	20
	Opening NC			
		min	ms	9
		max	ms	17
UL technical data				
Full-load current (F	LA) for three-phase AC motor			
		at 480V	Α	40
		at 600V	Α	32
Yielded mechanica	l performance			
	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 protec	tion fuse, 600V			
•	High fault			
	<b>3</b>	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			
	, 5 ,	min	°C	-50
		max	°C	70
	Storage temperature			<del>-</del>
	- 10. 250 10p 0. 2.010	min	°C	-60
		max	°C	80
Max altitude		max	m	3000
Resistance & Prote	ection			
Pollution degree				3
Dimensions				



#### ENERGY AND AUTOMATION



### 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



## BF3800A46060

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

	UL 60947-4-1	
Certificates		
	CCC	
	cULus	
	EAC	
ETIM classification	n	

ETIM 8.0

EC000066 -Power contactor, AC switching