

**ENERGY AND AUTOMATION** 

### THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 32A, AC COIL 60HZ, 230VAC



Product designation			Power contactor
Product type designation  Contact characteristics			BF32
Number of poles		Nr.	3
Rated insulation voltage Ui IEC/EN		V	690
Rated impulse withstand voltage Uimp		kV	6
Operational frequency			
Sporational modulonoy	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 (=55°C)	Α	45
	AC-1 (=70°C)	Α	40
	AC-3 (=440V =55°C)	Α	32
	AC-4 (400V)	Α	13.5
Rated operational power AC-3 (T=55°C)			
	230V	kW	8.8
	400V	kW	16
	415V	kW	17
	440V	kW	17
	500V	kW	20
	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 with 1 poles in series			
	=24V	Α	30
	48V	Α	26
	75V	Α	22
	110V	Α	8
	220V	Α	_
IEC max current le in DC1 with L/R = 1ms with 2 poles in series			
	=24V	Α	32
	48V	Α	32
	75V	Α	28
	110V	Α	25
	220V	Α	3
IEC max current le in DC1 with L/R = 1ms with 3 poles in series			
	=24V	Α	32
	48V	Α	32
	75V	Α	32



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	220V	Α	23
IEC max current le in DC1 with L/R = 1ms with 4 poles in series			
	=24V	Α	_
	48V	Α	_
	75V	Α	_
	110V	Α	_
	220V	Α	_
IEC max current le in DC3-DC5 with L/R = 15ms with 1 poles in series			
	=24V	Α	20
	48V	Α	17
	75V	Α	15
	110V	Α	2,5
	220V	Α	_
IEC max current le in DC3-DC5 with L/R = 15ms with 2 poles in series			
	=24V	Α	25
	48V	Α	22
	75V	A	20
	110V	A	15
	220V	A	3
IEC max current le in DC3-DC5 with L/R = 15ms with 3 poles in series	ZZU V		J
TEO MAX CUITETILIE III DOS-DOS WILLI DIN = 151115 WILLI S POLES III SELLES	=24V	۸	30
	=24V 48V	A	30
		A	28
	75V	A	28
	110V	A	20
	220V	A	23
IEC max current le in DC3-DC5 with L/R = 15ms with 4 poles in series		_	
	=24V	Α	_
	48V	Α	_
	75V	Α	_
	110V	Α	_
	220V	Α	_
Short-time allowable current for 10s (IEC/EN60947-1)		Α	320
Protection fuse			
	gG (IEC)	Α	63
	aM (IEC)	Α	32
Making capacity (RMS value)		Α	320
Breaking capacity at voltage			
	440V	Α	256
	500V	Α	240
	690V	Α	192
Resistance per pole (average value)		m?	2
Power dissipation per pole (average value)			<del>_</del>
	Ith	W	6
	AC3	W	2
Tightening torque for terminals	703	v v	
rightening torque for terminals	min	Nlm	2.5
	min	Nm Nm	2.5 3
	max	Nm Ibin	
	min	lbin	1.8
Tightoning tour of a sail tour in al	max	lbin	2.2
Tightening torque for coil terminal			2.2
	min	Nm	0.8
	max	Nm	1
	min	lbin	0.8



## THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 32A, AC COIL 60HZ,

		max	Ibin	0.74
	simultaneously connectable		Nr.	2
Conductor section	AMO//C			
	AWG/Kcmil			0
	Florible w/o live conductor coefficie	max		6
	Flexible w/o lug conductor section	min	mm²	2.5
		min max	mm²	16
	Flexible c/w lug conductor section	Παλ	111111	10
	r lexible 6/W lug conductor section	min	mm²	1
		max	mm²	10
	Flexible with insulated spade lug conductor section	тиах		10
	r loxible with inediated opade rag conductor decitor	min	mm²	1
		max	mm²	10
Power terminal protect	tion according to IEC/EN 60529			IP20 when wired
Mechanical features				
Operating position				
1 3		normal		Vertical plan
		allowable		±30°
Finder a				Screw / DIN rail
Fixing				35mm
Weight			g	422
Conductor section				
	AWG/kcmil conductor section			
		max		6
Operations				
Mechanical life			cycles	20000000
Electrical life			cycles	1600000
Safety related data				
Performance level B1	0d according to EN/ISO 13489-1			
		rated load	cycles	1600000
		hanical load	cycles	20000000
	ng to IEC/EN 609474-4-1			yes
EMC compatibility				yes
AC coil operating				
Rated AC voltage at 6	0Hz		V	230
AC operating voltage				
	of 60Hz coil powered at 60Hz			
	pick-up	_		
		min	%Us	80
		max	%Us	110
	drop-out	!	0/11-	20
		min	%Us %Us	20 55
AC average coil consu	umption at 20°C	max	/oUS	JU
Ac average con const	•			
	of 60Hz coil powered at 60Hz	in-rush	VA	75
		holding	VA VA	9
Dissipation at holding	=20°C 50Hz	noiding	W	2.5
Max cycles frequency			V V	۷.0
Mechanical operation			cycles/h	3600
Operating times			Cycles/II	3000
Average time for Us of	ontrol			
Avolage unic ioi OS O	OHUO			





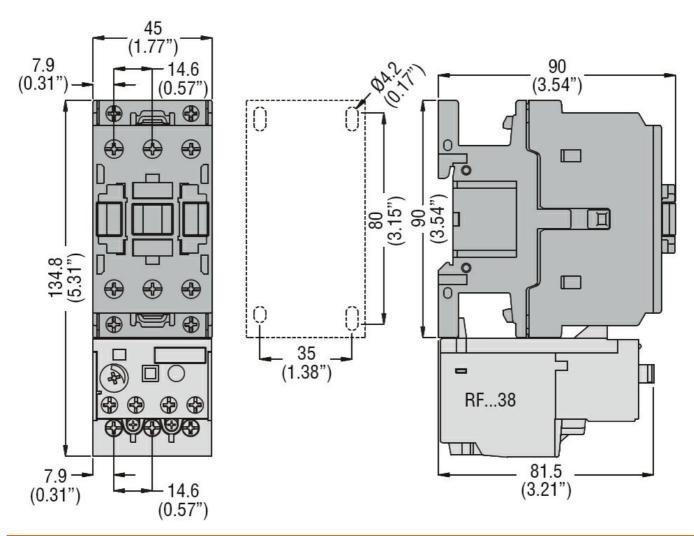
## THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 32A, AC COIL 60HZ,

	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
III. ta abada al data			max	ms	17
UL technical data	A) for three whose AC we	oto :			
Full-load current (FL	A) for three-phase AC m	otor	ot 400\/	۸	27
			at 480V	A	27 27
Yielded mechanical	nerformance		at 600V	Α	
rielded mediamical	for single-phase AC	motor			
	ioi siligie-pilase AC	motor	110/120V	HP	3
			230V	HP	7.5
	for three-phase AC r	notor	2001		7.0
	Tor times prides 710 T	110101	200/208V	HP	10
			220/230V	HP	10
			460/480V	HP	20
			575/600V	HP	25
General USE					
	Contactor				
			AC current	Α	55
Short-circuit protecti	on fuse, 600V				
	High fault				
			Short circuit current	kA	100
			Fuse rating	Α	100
			Fuse class		J
	Standard fault				_
			Short circuit current	kA	5
Applicat appolitions			Fuse rating	Α	125
Ambient conditions					
Temperature	Operating temperatu	ro			
	Operating temperatu	ie	min	°C	-50
			max	°C	-50 70
	Storage temperature	·	IIIax		
	Cicrago temperature		min	°C	-60
			max	°C	80
Max altitude				m	3000
Resistance & Protect	ction				
Pollution degree					3
Dimensions					

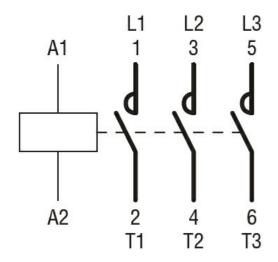
230VAC



**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



## BF3200A23060

THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 32A, AC COIL 60HZ, 230VAC

	UL 60947-4-1	
Certificates		
	CCC	
	cULus	
	EAC	
ETIM classification		
		EC000066 -

ETIM 8.0

Power contactor, AC switching