

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



Product designation Product type designation			Power contactor BF32
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 (≤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)	- ( /		
1 1 ( /	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)			
1 1 - ( /	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
	110V	Α	27
		•	



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	220V	Α	23
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series			
120 max carrent to in 201 mar 2/10 mile mar 1 polec in conce	≤24V	۸	
		A	_
	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	A	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	Α	15
	220V	Α	3
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series			
	≤24V	Α	30
	48V	Α	28
	75V	Α	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		- / \	020
breaking capacity at voltage	4.4017	Δ.	050
	440V	Α	256
	500V	Α	240
	690V	Α	192
Resistance per pole (average value)		mΩ	2
Power dissipation per pole (average value)			
(	lth	W	6
		W	2
Tightening to see to see the	AC-3	٧٧	۷
Tightening torque for terminals		_	
	min	Nm	2.5
	max	Nm	3
	min	lbin	1.8
	max	Ibin	2.2
Tightening torque for coil terminal	11107		
righterning torque for confictininal		Nina	0.0
	min	Nm	0.8
	max	Nm	1
	min	lbin	0.8



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

Operating position         normal allowable         Vertical plan allowable         ±30°           Fixing         Screw / DIN rail 35mm         35mm           Weight         g         420           Conductor section         max         6           Operations         max         6           Mechanical life         cycles         20000000           Electrical life         cycles         1600000           Safety related data         vcles         1600000           Performance level B10d according to EN/ISO 13489-1         rated load cycles         1600000           Mirror contats according to IEC/EN 609474-4-1         yes         yes           EMC compatibility         yes         yes           AC operating         √         48           AC operating voltage at 60Hz         v         48           AC operating voltage         min         %Us         80           AC operating voltage         min         %Us         20           AC operating voltage         f60Hz coil powered at 60Hz         min         %Us         20           AC average coil consumption at 20°C         of 60Hz coil powered at 60Hz         in-rush number of 60Hz         75         holding         VA         75         holding <th></th> <th></th> <th>max</th> <th>Ibin</th> <th>0.74</th>			max	Ibin	0.74
AWG/Kcmil   Flexible w/o lug conductor section   min	Max number of wires	simultaneously connectable		Nr.	2
Flexible w/o lug conductor section	Conductor section				
Flexible w/o lug conductor section		AWG/Kcmil			_
Plexible c/W lug conductor section		= -	max		6
Flexible c/w lug conductor section		Flexible w/o lug conductor section	:-	2	0.5
Flexible c/w lug conductor section					
Fiexible with insulated spade lug conductor section		Florible of what conductor postion	max	IIIII-	10
Flexible with insulated spade lug conductor section   min max   mm²   1 mm²		Flexible C/W lug conductor section	min	mm²	1
Flexible with insulated spade lug conductor section					
Minimax   Min		Flexible with insulated spade lug conductor section			10
Power terminal protection according to IEC/EN 60529         max brown and protection according to IEC/EN 60529         IP20 when properly wired properly wired properly wired properly wired properly wired properly wired allowable         IP20 when properly wired properly wired properly wired with allowable         IP20 when properly wired properly wired with allowable         IP20 when properly wired wired properly wired with allowable         IP20 when properly wired wired properly wired wired plan allowable         IP20 when properly wired wired plan allowable         IP20 when properly wired wired plan allowable         IP20 wired plan allow		Tioxible Will indulated space rag deflaction dedition		mm²	1
Power terminal protection according to IEC/EN 60529         IP20 when properly wired           Mechanical features         Operating position           Fixing         Screw / DIN rail 35 mm           Weight         g         420           Conductor section         max         6           Operations         Mechanical life         cycles         20000000           Electrical life         cycles         20000000           Safety related data         Performance level B10d according to EN/ISO 13489-1         rated load cycles         1600000           Mirror contats according to IEC/EN 609474-4-1         yes           MC compatibility         yes           AC coil operating         Rated AC voltage at 60Hz         V         48           AC operating voltage         of 60Hz coil powered at 60Hz pick-up         min         %Us         80           AC average coil consumption at 20°C of 60Hz coil powered at 60Hz         in-rush holding \$20°C 50Hz         W         25           AC average frequency         In-rush holding \$20°C 50Hz         W         2.5					10
Mechanical features           Operating position         normal allowable         vertical plan ±30°           Fixing         Screw / DIN rail 35mm           Weight         g         420           Conductor section         max         6           Operations         cycles         20000000           Beleatrical life         cycles         1600000           Safety related data         rated load expression         cycles         1600000           Safety related data         yes         20000000           Performance level B10d according to EN/ISO 13489-1         rated load expression         cycles         1600000           Mirror contats according to IEC/EN 609474-4-1         yes         yes           EMC contropatibility         yes         yes           AC coil operating         V         48           Rated AC voltage at 60Hz pick-up         min         %Us         80           Max         %Us         110           drop-out         min         %Us         20           max         %Us         55           AC average coil consumption at 20°C of 60Hz coil powered at 60Hz pick-up         in-rush name         %Us         55           AC average coil consumption at 20°C of 60Hz coil pow	Dawer tarminal prata	etion according to IFC/FN COFOO			IP20 when
Operating position         normal allowable         Vertical plan allowable         ±30°           Fixing         Screw / DIN rail 35mm         35mm           Weight         g         420           Conductor section         max         6           Operations         max         6           Mechanical life         cycles         20000000           Electrical life         cycles         1600000           Safety related data         vcles         1600000           Performance level B10d according to EN/ISO 13489-1         rated load cycles         1600000           Mirror contats according to IEC/EN 609474-4-1         yes         yes           EMC compatibility         yes         yes           AC operating         √         48           AC operating voltage at 60Hz         v         48           AC operating voltage         min         %Us         80           AC operating voltage         min         %Us         20           AC operating voltage         f60Hz coil powered at 60Hz         min         %Us         20           AC average coil consumption at 20°C         of 60Hz coil powered at 60Hz         in-rush number of 60Hz         75         holding         VA         75         holding <td>Power terminal protec</td> <td>ction according to IEC/EN 60529</td> <td></td> <td></td> <td>properly wired</td>	Power terminal protec	ction according to IEC/EN 60529			properly wired
Normal allowable   Screw / DIN rail allowa	Mechanical features				
Fixing   Screw / DIN rail 35mm	Operating position				
Fixing         Screw / DIN rail 35mm           Weight         g 420           Conductor section         max         6           Operations         max         6           Mechanical life         cycles         20000000           Electrical life         cycles         20000000           Electrical life         cycles         1600000           Safety related data         cycles         1600000           Safety related data         cycles         1600000           Mirror contats according to IEC/EN 609474-4-1         rated load cycles         20000000           MEMC compatibility         yes           AC coil operating         Rated AC voltage at 60Hz         y         y         4           AC operating voltage         of 60Hz coil powered at 60Hz         min         %Us         80           AC average coil consumption at 20°C         of 60Hz coil powered at 60Hz         in-rush cycles         y         y         y					

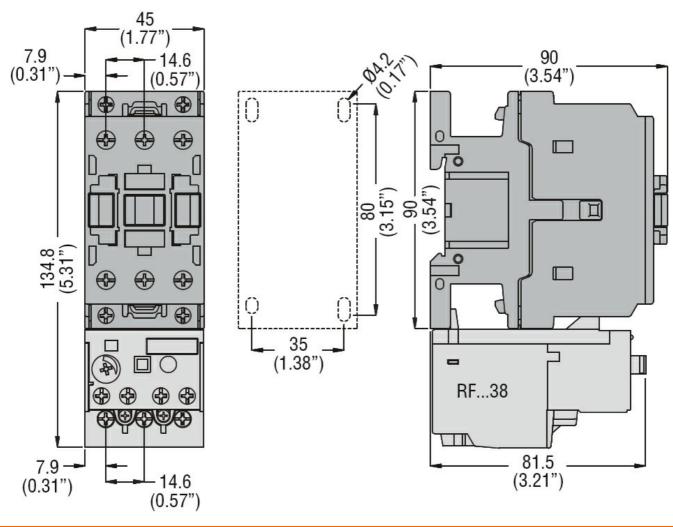




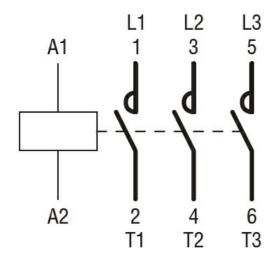
# THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 32A, AC COIL 60HZ,

Average time for Us co	ontrol				
-	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 (FLA)	) for three-phase AC mot	or		_	
			at 480V	Α	27
			at 600V	Α	27
Yielded mechanical pe					
	for single-phase AC m	otor			_
			110/120V	HP	3
			230V	HP	7.5
	for three-phase AC mo	otor	000/0001/		
			200/208V	HP	10
			220/230V	HP	10
			460/480V	HP	20
0			575/600V	HP	25
General USE	Onntantan				
	Contactor		A O	۸	FF
Chart sive it protection	- fues COOV		AC current	Α	55
Short-circuit protection					
	High fault		Chart sinarrit arrunant	L.Λ	400
			Short circuit current	kA ^	100
			Fuse rating	Α	100
	Standard fault		Fuse class		J
	Stanuaru fauit		Short circuit current	kA	5
			Fuse rating	A	5 125
Ambient conditions			i use raing		120
Temperature					
remperature	Operating temperature	•			
	Operating temperature	•	min	°C	-50
			max	°C	70
	Storage temperature		max		
	Storago tomporature		min	°C	-60
			max	°C	80
Max altitude			max	m	3000
Resistance & Protection	on				
Pollution degree					3
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



#### BF3200A04860

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

	UL 60947-4-1	
Certificates		
	CCC	
	cULus	
	EAC	
TIME A SECTION OF SECTION		

ETIM classification

ETIM 8.0

EC000066 -Power contactor, AC switching