## BF3200A024



THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 32A, AC COIL 50/60HZ, 24VAC



Deschart de sien atien			Danna anatartar
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		ΓV	0
	min	Hz	25
	max	Hz	400
IEC Conventional free air thermal current Ith	max	A	56
Operational current le		7.	
	AC-1 (≤40°C)	А	56
	AC-1 (≤55°C)	A	45
	AC-1 (≤70°C)	A	40
	AC-3 (≤440V ≤55°C)	A	32
	AC-4 (400V)	A	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 $L/R \le 1$ ms with 1 poles in series			
	≤24V	Α	30
	48V	А	26
	75V	A	22
	110V	A	8
	220V	A	_
IEC max current le in DC1 with $L/R \le 1$ ms with 2 poles in series			
	≤24V	Α	32
	48V	A	32
	75V	A	28
	110V	A	25
IFO many automatic in DO4 with 1/D < 4max with 0 materia	220V	A	3
IEC max current le in DC1 with $L/R \le 1$ ms with 3 poles in series	-0.0.1	^	22
	≤24V	A	32
	48V	A	32
	75V	A	32
	110V	А	27



**BF3200A024** THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 32A, AC COIL 50/60HZ, 24VAC

	220V	А	23	
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series				
	≤24V	А	_	
	48V	А	_	
	75V	А	_	
	110V	А	_	
	220V	А	-	
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series				
	≤24V	А	20	
	48V	А	17	
	75V	А	15	
	110V	А	2,5	
	220V	Α	_	
IEC max current le in DC3-DC5 with L/R $\leq$ 15ms with 2 poles in series				
	≤24V	А	25	
	48V	А	22	
	75V	А	20	
	110V	А	15	
	220V	Α	3	
IEC max current le in DC3-DC5 with L/R $\leq$ 15ms with 3 poles in series				
	≤24V	А	30	
	48V	Α	28	
	75V	Α	28	
	110V	А	20	
	220V	Α	23	
IEC max current le in DC3-DC5 with L/R $\leq$ 15ms with 4 poles in series				
	≤24V	А	_	
	48V	А	_	
	75V	А	-	
	110V	А	_	
	220V	A	_	
Short-time allowable current for 10s (IEC/EN60947-1)		А	320	
Protection fuse				
	gG (IEC)	A	63	
	aM (IEC)	A	32	
Making capacity (RMS value)		А	320	
Breaking capacity at voltage				
	440V	A	256	
	500V	Α	240	
	690V	A	192	
Resistance per pole (average value)		mΩ	2	
Power dissipation per pole (average value)			_	
	Ith	W	6	
	AC3	W	2	
Tightening torque for terminals				
	min	Nm	2.5	
	max	Nm	3	
	min	Ibin	1.8	
	max	lbin	2.2	
Tightening torque for coil terminal				
	min	Nm	0.8	
	max	Nm	1	
	min	Ibin	0.8	



THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 32A, AC COIL 50/60HZ, 24VAC

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Managemetric		max	Ibin	0.74
	simultaneously connectable		Nr.	2
Conductor section				
	AWG/Kcmil	may		6
	Flexible w/o lug conductor section	max		0
		min	mm²	2.5
		max	mm²	16
	Flexible c/w lug conductor section			
	Ű	min	mm²	1
		max	mm²	10
	Flexible with insulated spade lug conductor section			
		min	mm²	1
		max	mm²	10
Power terminal protect	tion according to IEC/EN 60529			IP20 when
				properly wired
Mechanical features				
Operating position		normal		Vertical plan
		allowable		±30°
		allowable		Screw / DIN rail
Fixing				35mm
Weight			g	432
Conductor section			-	
	AWG/kcmil conductor section			
		max		6
Operations				
Mechanical life			cycles	2000000
Electrical life			cycles	1600000
Safety related data				
Performance level B10	0d according to EN/ISO 13489-1	roted load	avalaa	1600000
	m/	rated load echanical load	cycles cycles	2000000
Mirror contats accordir	ng to IEC/EN 609474-4-1		Cycles	yes
EMC compatibility				yes
				yes
AC coil operating				
AC coil operating Rated AC voltage at 50	0/60Hz		V	24
Rated AC voltage at 50	0/60Hz		V	24
Rated AC voltage at 50	0/60Hz of 50/60Hz coil powered at 50Hz		V	24
			V	24
Rated AC voltage at 50	of 50/60Hz coil powered at 50Hz	min	%Us	80
Rated AC voltage at 50	of 50/60Hz coil powered at 50Hz pick-up	min max		
Rated AC voltage at 50	of 50/60Hz coil powered at 50Hz	max	%Us %Us	80 110
Rated AC voltage at 50	of 50/60Hz coil powered at 50Hz pick-up	max min	%Us %Us %Us	80 110 20
Rated AC voltage at 50	of 50/60Hz coil powered at 50Hz pick-up drop-out	max	%Us %Us	80 110
Rated AC voltage at 50	of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz	max min	%Us %Us %Us	80 110 20
Rated AC voltage at 50	of 50/60Hz coil powered at 50Hz pick-up drop-out	max min max	%Us %Us %Us %Us	80 110 20 55
Rated AC voltage at 50	of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz	max min max min	%Us %Us %Us %Us	80 110 20 55 85
Rated AC voltage at 50	of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up	max min max	%Us %Us %Us %Us	80 110 20 55
Rated AC voltage at 50	of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz	max min max min	%Us %Us %Us %Us	80 110 20 55 85

### of 50/60Hz coil powered at 50Hz



THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 32A, AC COIL 50/60HZ, 24VAC

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ENERGY AND AUTOMATION				
		in ruch	١/٨	75
		in-rush	VA	75
		holding	VA	9
	of 50/60Hz coil powered at 60Hz	· · · · · ·		70
		in-rush	VA	70
	(0011 11 10 10 10 10 10 10 10 10 10 10 10	holding	VA	6.5
	of 60Hz coil powered at 60Hz			
		in-rush	VA	75
		holding	VA	9
Dissipation at holding			W	2.5
Max cycles frequency				
Mechanical operation			cycles/h	3600
Operating times				
Average time for Us of	control			
	in AC			
	Closing NO			
	-	min	ms	8
		max	ms	24
	Opening NO		-	
		min	ms	5
		max	ms	15
	Closing NC	max		
		min	ms	9
		max	ms	20
	Opening NC	Παλ	1115	20
	Opening NC	min	ma	0
		min	ms	9
		max	ms	17
UL technical data				
Full-load current (FLA	A) for three-phase AC motor			
		at 480V	Α	27
		at 600V	Α	27
Yielded mechanical p				
	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	10
		460/480V	HP	20
		575/600V	HP	25
General USE				
	Contactor			
		AC current	А	55
Short-circuit protection	n fuse 600V		А	
Short-circuit protectic				
	High fault	Chart sizes it sums it	١. ٨	100
		Short circuit current	kA	100
		Fuse rating	А	100
		Fuse class		J
	Standard fault			
		Short circuit current	kA	5
		Fuse rating	А	125
Ambient conditions				
Temperature				
	Operating temperature			
		min	ംറ	-50

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°C

min

-50

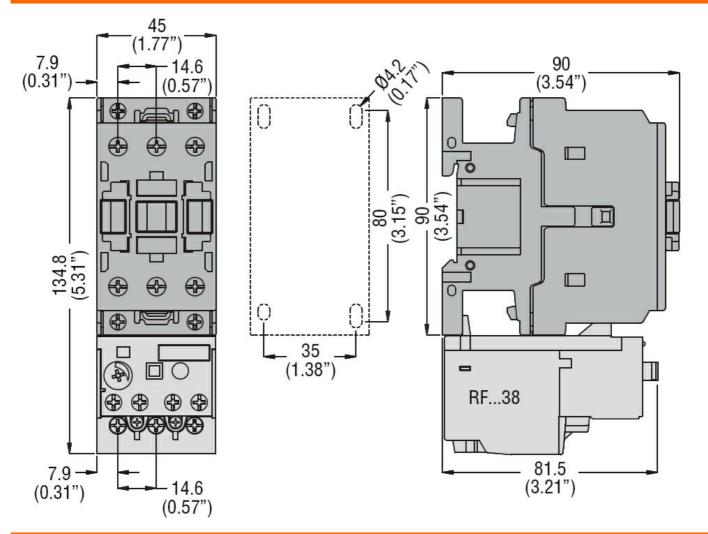


THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 32A, AC COIL 50/60HZ, 24VAC

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	max	°C	70
Storage temperature			
	min	°C	-60
	max	°C	80
Max altitude		m	3000
Resistance & Protection			
Pollution degree			3

Dimensions

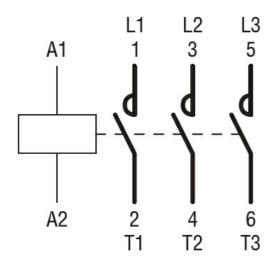


Wiring diagrams





THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 32A, AC COIL 50/60HZ, 24VAC



#### 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
	UL 60947-4-1
Certificates	
	000
	cULus
	EAC
ETIM classification	

**ETIM 8.0** 

EC000066 -Power contactor, AC switching





Product designation			Power contactor
Product type designation			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			05
	min	Hz	25
IFO Opening tion of face, sighthere all summer title	max	Hz	400
IEC Conventional free air thermal current Ith		A	56
Operational current le	$A = 1 (< 10^{\circ} = 1)$	٨	56
	AC-1 (≤40°C) AC-1 (≤55°C)	A	45
	AC-1 (≤35 C) AC-1 (≤70°C)	A A	40
	AC-3 (≤440V ≤55°C)	A	32
	AC-3 (3440V 355 C) AC-4 (400V)	A	13.5
Rated operational power AC-3 (T≤55°C)	AC-4 (400V)	~	15.5
	230V	kW	8.8
	400V	kW	16
	400 V 415 V	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 $L/R \le 1$ ms with 1 poles in series			
	≤24V	А	30
	48V	А	26
	75V	А	22
	110V	А	8
	220V	Α	_
IEC max current le in DC1 with $L/R \le 1$ ms with 2 poles in series			
	≤24V	А	32
	48V	А	32
	75V	А	28
	110V	А	25
	220V	A	3
IEC max current le in DC1 with $L/R \le 1$ ms with 3 poles in series			
	≤24V	A	32
	48V	A	32
	75V	A	32
	110V	A	27



THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 32A, AC COIL 50/60HZ,

24VAC - IEC/EN/BS 60335-1 220V 23 А IEC max current le in DC1 with  $L/R \le 1$ ms with 4 poles in series

BF3200A024V260

IEC max current le in DC1 with $L/R \le 1$ ms with 4 poles in series				
	≤24V	А	_	
	48V	А	_	
	75V	A	_	
	110V	A	_	
	220V		-	
	2200	A	_	
IEC max current le in DC3-DC5 with L/R $\leq$ 15ms with 1 poles in series				
	≤24V	Α	20	
	48V	Α	17	
	75V	Α	15	
	110V	А	2,5	
	220V	А	_	
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series				
	≤24V	А	25	
	48V			
		A	22	
	75V	Α	20	
	110V	A	15	
	220V	Α	3	
IEC max current le in DC3-DC5 with L/R $\leq$ 15ms with 3 poles in series				
	≤24V	А	30	
	48V	А	28	
	75V	A	28	
	110V	A	20	
	220V	A	23	
	2200	A	23	
IEC max current le in DC3-DC5 with L/R $\leq$ 15ms with 4 poles in series		-		
	≤24V	A	-	
	48V	А	-	
	75V	Α	-	
	110V	Α	_	
	220V	А	_	
Short-time allowable current for 10s (IEC/EN60947-1)		А	320	
Protection fuse				
	gG (IEC)	А	63	
	- · ·	A	32	
Molting approxity (BMC value)	aM (IEC)			
Making capacity (RMS value)		Α	320	
Breaking capacity at voltage				
	440V	А	256	
	500V	А	240	
	690V	Α	192	
Resistance per pole (average value)		mΩ	2	
Power dissipation per pole (average value)				
	lth	W	6	
	AC3	W	2	
Tightening torque for terminals	703	۷V	2	
inginering lorque for lenningis		N I.a.	0.5	
	min	Nm	2.5	
	max	Nm	3	
	min	lbin	1.8	
	max	lbin	2.2	
Tightening torque for coil terminal				
	min	Nm	0.8	
	max	Nm	1	
	min	Ibin	0.8	
	111111		0.0	



THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 32A, AC COIL 50/60HZ, 24VAC - IEC/EN/BS 60335-1

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Max number of wires	simultaneously connectable	max	Ibin Nr.	0.74
Conductor section			1 11.	_
	AWG/Kcmil			
		max		6
	Flexible w/o lug conductor section			
		min	mm²	2.5
		max	mm²	16
	Flexible c/w lug conductor section		2	
		min	mm²	1
	Flexible with insulated spade lug conductor section	max	mm²	10
	Flexible with insulated space by conductor section	min	mm²	1
		max	mm²	10
				IP20 when
Power terminal protec	ction according to IEC/EN 60529			properly wired
Mechanical features				·
Operating position				
		normal		Vertical plan
		allowable		±30°
Fixing				Screw / DIN ra 35mm
Weight			g	432
Conductor section			9	
	AWG/kcmil conductor section			
		max		6
Operations				
Mechanical life			cycles	2000000
Electrical life			cycles	1600000
Safety related data				
Performance level B1	0d according to EN/ISO 13489-1			4000000
		rated load	cycles	1600000
Mirror contate accord		echanical load	cycles	20000000
EMC compatibility	ing to IEC/EN 609474-4-1			yes
AC coil operating				yes
Rated AC voltage at 6	i0Hz		V	24
AC operating voltage			•	
,				
	of 60Hz coil powered at 60Hz			
	of 60Hz coil powered at 60Hz pick-up			
	-	min	%Us	80
	pick-up	min max	%Us %Us	80 110
	-	max	%Us	110
	pick-up	max min	%Us %Us	110 20
	pick-up drop-out	max	%Us	110
AC average coil cons	pick-up drop-out umption at 20°C	max min	%Us %Us	110 20
AC average coil cons	pick-up drop-out	max min max	%Us %Us %Us	110 20 55
AC average coil cons	pick-up drop-out umption at 20°C	max min max in-rush	%Us %Us %Us VA	110 20 55 75
-	pick-up drop-out umption at 20°C of 60Hz coil powered at 60Hz	max min max	%Us %Us %Us VA VA	110 20 55 75 9
Dissipation at holding	pick-up drop-out umption at 20°C of 60Hz coil powered at 60Hz ≤20°C 50Hz	max min max in-rush	%Us %Us %Us VA	110 20 55 75
-	pick-up drop-out umption at 20°C of 60Hz coil powered at 60Hz ≤20°C 50Hz	max min max in-rush	%Us %Us %Us VA VA	110 20 55 75 9 2.5

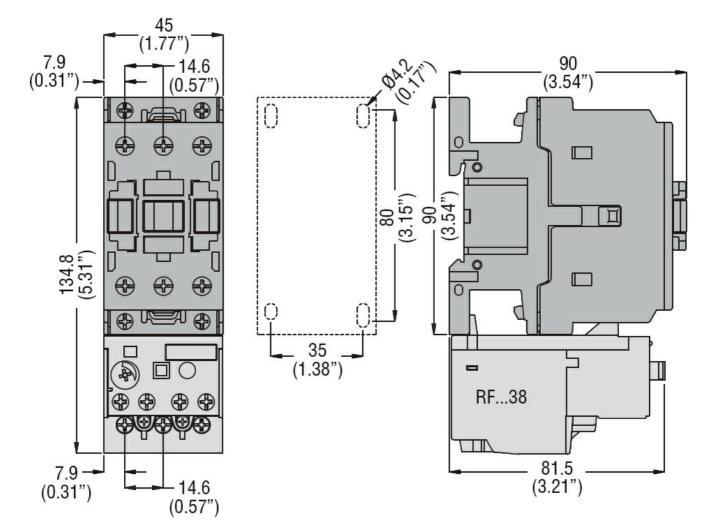


verage time for Us control
in AC
Closing NO
min ms 8
max ms 24
Opening NO
min ms 5
max ms 15
Closing NC
min ms 9
max ms 20
Opening NC
min ms 9
max ms 17
L technical data
ull-load current (FLA) for three-phase AC motor at 480V A 27
at 480V A 27 at 600V A 27
elded mechanical performance
for single-phase AC motor
110/120V HP 3
230V HP 7.5
for three-phase AC motor
200/208V HP 10
220/230V HP 10
460/480V HP 20
575/600V HP 25
eneral USE
Contactor
AC current A 55
nort-circuit protection fuse, 600V
High fault
Short circuit current kA 100
Fuse rating A 100
Fuse class J
Standard fault
Short circuit current kA 5
Fuse rating A 125
emperature Operating temperature
Operating temperature min °C -50
max °C 70
Storage temperature
min °C -60
max °C 80
ax altitude m 3000
esistance & Protection
ollution degree 3
imensions

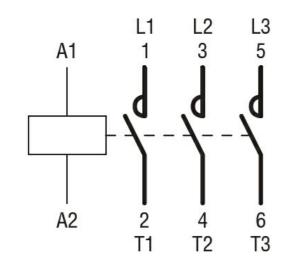
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THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 32A, AC COIL 50/60HZ, 24VAC - IEC/EN/BS 60335-1



Wiring diagrams



### Certifications and compliance

Compliance	
	CSA C22.2 n° 60947-1
	CSA C22.2 n° 60947-4-1
	IEC/EN/BS 60335-1
	IEC/EN/BS 60947-1
	IEC/EN/BS 60947-4-1



BF3200A024V260 THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 32A, AC COIL 50/60HZ, 24VAC - IEC/EN/BS 60335-1

 UL 60947-1

 UL 60947-4-1

 Certificates

 CCC

 cULus

 EAC

ETIM 8.0

EC000066 -Power contactor, AC switching

## BF3200A048



THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 32A, AC COIL 50/60HZ, 48VAC



Des dust de sign stien			Device contractor
Product designation			Power contactor
Product type designation Contact characteristics			BF32
Number of poles		Nr.	3
Rated insulation voltage Ui IEC/EN		V	<u> </u>
Rated inpulse withstand voltage Uimp		kV	6
		ĸv	0
Operational frequency			25
	min	Hz	25
IFC Conventional free air thermal surrent th	max	Hz	400 56
IEC Conventional free air thermal current Ith		A	20
Operational current le	10 1 (210%0)	٨	50
	AC-1 (≤40°C)	A	56
	AC-1 (≤55°C)	A	45
	AC-1 (≤70°C)	A	40
	AC-3 (≤440V ≤55°C)	A	32
	AC-4 (400V)	A	13.5
Rated operational power AC-3 (T≤55°C)	0001/		
	230V	kW	8.8
	400V	kW	16
	415V	kW	17
	440V	kW	17
	500V 690V	kW kW	20 22
Rated operational power AC-1 (T≤40°C)	090 v	ĸvv	22
	2201/	LAA7	04
	230V 400V	kW kW	21
	400V 500V	kw	36 45
	690V	kW	43 62
IFC may surrant to in DC1 with $1/D < 1$ may with 1 nation in parises	090 V	ĸvv	02
IEC max current le in DC1 with $L/R \le 1$ ms with 1 poles in series	-041/	٨	20
	≤24V	A	30
	48V 75V	A	26
		A	22
	110V 220V	A	8
IFC may surrant to in DC1 with $1/D < 1$ may with 2 notes in agrice	2200	A	_
IEC max current le in DC1 with $L/R \le 1$ ms with 2 poles in series	-041/	٨	20
	≤24V	A	32
	48V	A	32
	75V	A	28
	110V	A	25
IFC movies automatical in DC1 with 1/D < 1 movies with 2 molecular series	220V	A	3
IEC max current le in DC1 with $L/R \le 1$ ms with 3 poles in series	-0.1.1	۸	22
	≤24V	A	32
	48V	A	32
	75V	A	32
	110V	А	27



BF3200A048 THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 32A, AC COIL 50/60HZ, 48VAC

	220V	А	23	
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series				
	≤24V	А	_	
	48V	А	_	
	75V	A	_	
	110V	A	_	
	220V	A	_	
IEC may aurrent to in DC2 DC5 with L/P < 15mg with 1 palag in agrice	220 V	~	-	
IEC max current le in DC3-DC5 with $L/R \le 15$ ms with 1 poles in series				
	≤24V	A	20	
	48V	А	17	
	75V	А	15	
	110V	Α	2,5	
	220V	Α	-	
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series				
	≤24V	А	25	
	48V	A	22	
	48V 75V	A	20	
	110V	A	20 15	
	220V	A	3	
IEC max current le in DC3-DC5 with $L/R \le 15$ ms with 3 poles in series				
	≤24V	Α	30	
	48V	Α	28	
	75V	А	28	
	110V	А	20	
	220V	А	23	
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series			-	
	≤24V	А	_	
	48V	A	_	
			-	
	75V	A	—	
	110V	A	-	
	220V	A	_	
Short-time allowable current for 10s (IEC/EN60947-1)		Α	320	
Protection fuse				
	gG (IEC)	А	63	
	aM (IEC)	А	32	
Making capacity (RMS value)	- ( - )	Α	320	
Breaking capacity at voltage			020	
Disaming supulity at voltage	44014	٨	256	
	440V	A	256	
	500V	A	240	
	690V	A	192	
Resistance per pole (average value)		mΩ	2	
Power dissipation per pole (average value)				
	lth	W	6	
	AC3	W	2	
Tightening torque for terminals				
	min	Nm	2.5	
	max	Nm	3	
	min		3 1.8	
		lbin Ibin		
	max	lbin	2.2	
Tightening torque for coil terminal				
	min	Nm	0.8	
	max	Nm	1	
	min	lbin	0.8	



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ITACTOR, IEC OPERATING CURRENT IE (AC3) = 32A, AC COIL 50/60H	ΗZ,
48V	AC

BF3200A048

Max number of wires	simultanoously connectable	max	Ibin Nr.	0.74
Conductor section	simultaneously connectable		INſ.	2
Conductor section	AWG/Kcmil			
		max		6
	Flexible w/o lug conductor section	Пах		0
		min	mm²	2.5
		max	mm²	16
	Flexible c/w lug conductor section			
		min	mm²	1
		max	mm²	10
	Flexible with insulated spade lug conductor section	1		
		min	mm²	1
		max	mm²	10
Power terminal protec	tion according to IEC/EN 60529			IP20 when properly wired
Mechanical features				1 1 2 7 2 2
Operating position				
		normal		Vertical plan
		allowable		±30°
Fixing				Screw / DIN rai 35mm
Weight			g	430
Conductor section				
	AWG/kcmil conductor section			
		max		6
Operations				
Mechanical life			cycles	2000000
Electrical life Safety related data			cycles	1600000
	0d according to EN/ISO 13489-1			
	ou according to EN/ISO 13409-1	rated load	cycles	1600000
	n	nechanical load	cycles	20000000
Mirror contats accordi	ng to IEC/EN 609474-4-1		oyoloo	yes
EMC compatibility				yes
AC coil operating				,
	0/60Hz		V	48
Rated AC voltage at 5 AC operating voltage	0/60Hz		V	48
Rated AC voltage at 5	0/60Hz of 50/60Hz coil powered at 50Hz		V	48
Rated AC voltage at 5			V	48
Rated AC voltage at 5	of 50/60Hz coil powered at 50Hz	min	%Us	80
Rated AC voltage at 5	of 50/60Hz coil powered at 50Hz pick-up	min max		
Rated AC voltage at 5	of 50/60Hz coil powered at 50Hz	max	%Us %Us	80 110
Rated AC voltage at 5	of 50/60Hz coil powered at 50Hz pick-up	max min	%Us %Us %Us	80 110 20
Rated AC voltage at 5	of 50/60Hz coil powered at 50Hz pick-up drop-out	max	%Us %Us	80 110
Rated AC voltage at 5	of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz	max min	%Us %Us %Us	80 110 20
Rated AC voltage at 5	of 50/60Hz coil powered at 50Hz pick-up drop-out	max min max	%Us %Us %Us %Us	80 110 20 55
Rated AC voltage at 5	of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz	max min max min	%Us %Us %Us %Us	80 110 20 55 85
Rated AC voltage at 5	of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up	max min max	%Us %Us %Us %Us	80 110 20 55
Rated AC voltage at 5	of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz	max min max min	%Us %Us %Us %Us	80 110 20 55 85

## of 50/60Hz coil powered at 50Hz



THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 32A, AC COIL 50/60HZ, 48VAC

BF3200A048

		in-rush	VA	75
		holding	VA	9
	of 50/60Hz coil powered at 60Hz	noiding	V/ (	0
	of 50/00112 con powered at 00112	in-rush	VA	70
			VA VA	6.5
		holding	VA	0.5
	of 60Hz coil powered at 60Hz	· · · · ·	١./٨	75
		in-rush	VA	75
		holding	VA	9
Dissipation at holding	≤20°C 50Hz		W	2.5
Max cycles frequency				
Mechanical operation			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
	Closing NC			
	5	min	ms	9
		max	ms	20
	Opening NC			
	opolinigito	min	ms	9
		max	ms	17
UL technical data		Пах	me	
	for three-phase AC motor			
		at 480V	А	27
		at 600V	A	27
Yielded mechanical pe	orformance	ut 000 V		21
neided meenamear pe	for single-phase AC motor			
	for single-phase AC motor	110/120V	ЦП	3
			HP	-
	for three where AQ meeter	230V	HP	7.5
	for three-phase AC motor	000/0001		10
		200/208V	HP	10
		220/230V	HP	10
		460/480V	HP	20
· · · · · · · · · · · · · · · · · · ·		575/600V	HP	25
General USE				
	Contactor			
		AC current	А	55
Short-circuit protection				
	High fault			
		Short circuit current	kA	100
		Fuse rating	А	100
		Fuse class		J
	Standard fault			
		Short circuit current	kA	5
		Fuse rating	A	125
Ambient conditions		g	- -	
Temperature				
remperature	Operating temperature			
remperature	Operating temperature	min	°C	-50

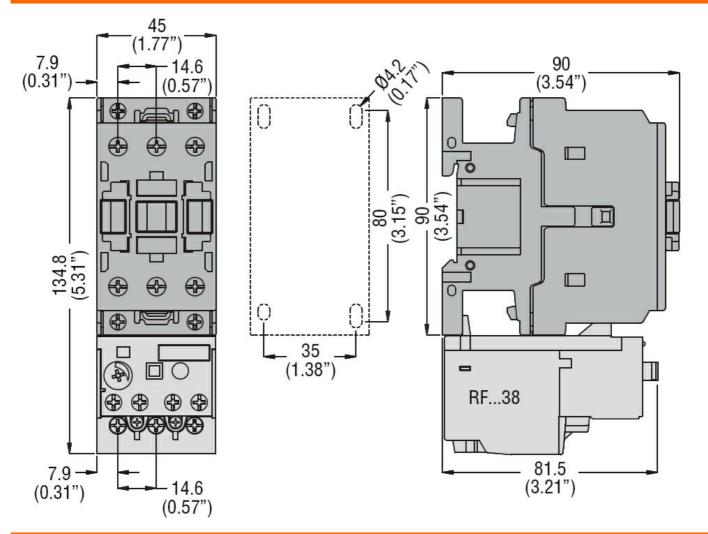


THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 32A, AC COIL 50/60HZ, 48VAC

BF3200A048

	max	°C	70
Storage temperature			
	min	°C	-60
	max	°C	80
Max altitude		m	3000
Resistance & Protection			
Pollution degree			3

Dimensions

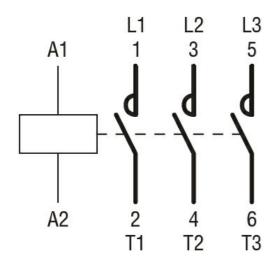


Wiring diagrams





THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 32A, AC COIL 50/60HZ, 48VAC



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

**ETIM 8.0** 

EC000066 -Power contactor, AC switching





Product designation Product type designation			Power contactor BF32
Contact characteristics			BI 62
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		А	56
Operational current le			
•	AC-1 (≤40°C)	А	56
	AC-1 (≤55°C)	А	45
	AC-1 (≤70°C)	А	40
	AC-3 (≤440V ≤55°C)	А	32
	AC-4 (400V)	А	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 $L/R \le 1$ ms with 1 poles in series			
	≤24V	А	30
	48V	А	26
	75V	A	22
	110V	A	8
	220V	A	-
IEC max current le in DC1 with $L/R \le 1$ ms with 2 poles in series			
	≤24V	А	32
	48V	A	32
	75V	A	28
	110V	A	25
	220V	A	3
IEC max current le in DC1 with $L/R \le 1$ ms with 3 poles in series			20
	≤24V	A	32
	48V	A	32
	75V	A	32
	110V	А	27



BF3200A110 THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 32A, AC COIL 50/60HZ, 110VAC

	220V	Α	23	
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series				
ľ	≤24V	А	_	
	48V	A		
	48V 75V		-	
		A	-	
	110V	А	_	
	220V	A	—	
IEC max current le in DC3-DC5 with L/R $\leq$ 15ms with 1 poles in series				
	≤24V	А	20	
	48V	А	17	
	75V	А	15	
	110V	A	2,5	
	220V	A	-	
IEC max current le in DC3-DC5 with L/R $\leq$ 15ms with 2 poles in series				
	≤24V	А	25	
	48V	А	22	
	75V	А	20	
	110V	A	15	
	220V	A	3	
IFC may aurrent to in DC2 DC5 with 1/D < 45mm with 2 meter in a vi	2200	~	5	
IEC max current le in DC3-DC5 with L/R $\leq$ 15ms with 3 poles in series				
	≤24V	А	30	
	48V	Α	28	
	75V	А	28	
	110V	А	20	
	220V	А	23	
IEC max current le in DC3-DC5 with L/R $\leq$ 15ms with 4 poles in series	2201		20	
	<241/	٨		
	≤24V	A	_	
	48V	А	-	
	75V	А	_	
	110V	Α	_	
	220V	А	_	
Short-time allowable current for 10s (IEC/EN60947-1)		А	320	
Protection fuse				
		۸	60	
	gG (IEC)	A	63	
	aM (IEC)	A	32	
Making capacity (RMS value)		Α	320	
Breaking capacity at voltage				_
	440V	А	256	
	500V	A	240	
	690V	A	192	
Pasistance per pole (average value)	030 v			
Resistance per pole (average value)		mΩ	2	
Power dissipation per pole (average value)				
	lth	W	6	
	AC3	W	2	
Tightening torque for terminals				
	min	Nm	2.5	
	max	Nm	3	
	min	Ibin	1.8	
	max	lbin	2.2	
Tightening torque for coil terminal				
	min	Nm	0.8	
	max	Nm	1	
	min	lbin	0.8	
			0.0	



THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 32A, AC COIL 50/60HZ, 110VAC

BF3200A110

Max number of wheel	simultaneously connectable	max	lbin	0.74
	simultaneously connectable		Nr.	2
Conductor section	AWG/Kcmil			
	Awg/Kcmii	may		6
	Flexible w/o lug conductor section	max		0
		min	mm²	2.5
		max	mm²	16
	Flexible c/w lug conductor section			
	5	min	mm²	1
		max	mm²	10
	Flexible with insulated spade lug conductor section			
		min	mm²	1
		max	mm²	10
Power terminal protect	ction according to IEC/EN 60529			IP20 when properly wired
Mechanical features				
Operating position				
		normal		Vertical plan
		allowable		±30°
Fixing				Screw / DIN rail 35mm
Weight			g	428
Conductor section				
	AWG/kcmil conductor section			
		max		6
Operations				
Mechanical life			cycles	2000000
Electrical life Safety related data			cycles	1600000
	10d according to EN/ISO 13489-1			
Dartarmanca laval R1				
Performance level B1		rated load	cycles	160000
Performance level B1	-	rated load	cycles	1600000
	m	rated load echanical load	cycles cycles	20000000
Mirror contats accord	-		•	20000000 yes
Mirror contats accord EMC compatibility	m		•	20000000
Mirror contats accord EMC compatibility AC coil operating	m ling to IEC/EN 609474-4-1		•	20000000 yes yes
Mirror contats accord EMC compatibility	m ling to IEC/EN 609474-4-1 50/60Hz		cycles	20000000 yes
Mirror contats accord EMC compatibility AC coil operating Rated AC voltage at §	m ling to IEC/EN 609474-4-1 50/60Hz		cycles	20000000 yes yes
Mirror contats accord EMC compatibility AC coil operating Rated AC voltage at §	m ling to IEC/EN 609474-4-1 50/60Hz		cycles	20000000 yes yes
Mirror contats accord EMC compatibility AC coil operating Rated AC voltage at §	m ling to IEC/EN 609474-4-1 50/60Hz of 50/60Hz coil powered at 50Hz		v v %Us	20000000 yes yes 110 80
Mirror contats accord EMC compatibility AC coil operating Rated AC voltage at §	m ling to IEC/EN 609474-4-1 50/60Hz of 50/60Hz coil powered at 50Hz pick-up	echanical load	V	20000000 yes yes 110
Mirror contats accord EMC compatibility AC coil operating Rated AC voltage at §	m ling to IEC/EN 609474-4-1 50/60Hz of 50/60Hz coil powered at 50Hz	echanical load min max	V V %Us %Us	20000000 yes yes 110 80 110
Mirror contats accord EMC compatibility AC coil operating Rated AC voltage at §	m ling to IEC/EN 609474-4-1 50/60Hz of 50/60Hz coil powered at 50Hz pick-up	min min max	V V %Us %Us %Us	20000000 yes yes 110 80 110 20
Mirror contats accord EMC compatibility AC coil operating Rated AC voltage at §	m ling to IEC/EN 609474-4-1 50/60Hz of 50/60Hz coil powered at 50Hz pick-up drop-out	echanical load min max	V V %Us %Us	20000000 yes yes 110 80 110
Mirror contats accord EMC compatibility AC coil operating Rated AC voltage at §	m ling to IEC/EN 609474-4-1 50/60Hz of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz	min min max	V V %Us %Us %Us	20000000 yes yes 110 80 110 20
Mirror contats accord EMC compatibility AC coil operating Rated AC voltage at §	m ling to IEC/EN 609474-4-1 50/60Hz of 50/60Hz coil powered at 50Hz pick-up drop-out	min max min max	V V %Us %Us %Us %Us	20000000 yes yes 110 80 110 20 55
Mirror contats accord EMC compatibility AC coil operating Rated AC voltage at §	m ling to IEC/EN 609474-4-1 50/60Hz of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz	min max min max min max	v v v v v v v v v v v v v v v v v v v	20000000 yes yes 110 80 110 20 55 85
Mirror contats accord EMC compatibility AC coil operating Rated AC voltage at §	m ing to IEC/EN 609474-4-1 50/60Hz of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up	min max min max	V V %Us %Us %Us %Us	20000000 yes yes 110 80 110 20 55
Mirror contats accord EMC compatibility AC coil operating Rated AC voltage at §	m ling to IEC/EN 609474-4-1 50/60Hz of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz	min max min max min max	v v v v v v v v v v v v v v v v v v v	20000000 yes yes 110 80 110 20 55 85

### of 50/60Hz coil powered at 50Hz



THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 32A, AC COIL 50/60HZ, 110VAC

BF3200A110

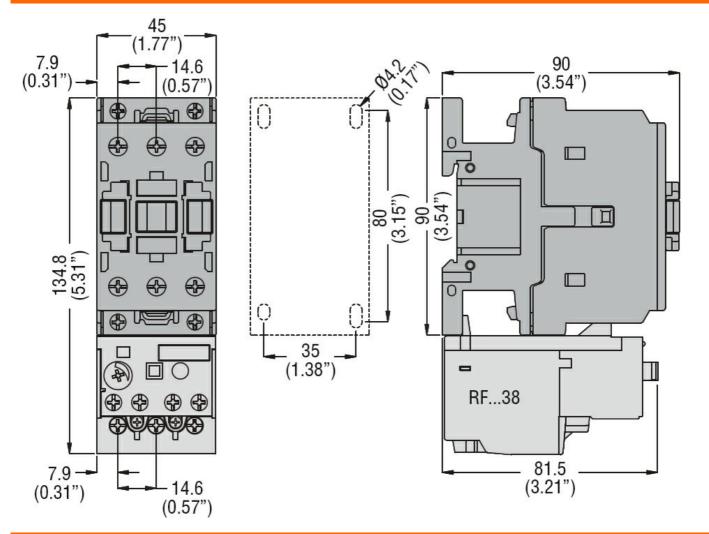
		in-rush	VA	75
		holding	VA	9
	of 50/60Hz coil powered at 60Hz	nording	•71	0
		in-rush	VA	70
			VA VA	6.5
		holding	VA	0.0
	of 60Hz coil powered at 60Hz			
		in-rush	VA	75
		holding	VA	9
Dissipation at holding			W	2.5
Max cycles frequency				
Mechanical operation			cycles/h	3600
Operating times				
Average time for Us c	ontrol			
	in AC			
	Closing NO			
	Ğ	min	ms	8
		max	ms	24
	Opening NO			
		min	ms	5
		max	ms	15
	Closing NC	IIIdX	1115	10
		and in		0
		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 motor			
Full-load current (FLA	) for three-phase AC motor	at 480V	А	27
Full-load current (FLA	) for three-phase AC motor	at 480V at 600V	A A	27 27
Full-load current (FLA Yielded mechanical pe				
·	erformance			
·		at 600V	A	
·	erformance	at 600V 110/120V	A HP	3
·	erformance for single-phase AC motor	at 600V	A	27
·	erformance	at 600V 110/120V 230V	A HP HP	27 3 7.5
·	erformance for single-phase AC motor	at 600V 110/120V 230V 200/208V	A HP HP HP	27 3 7.5 10
·	erformance for single-phase AC motor	at 600V 110/120V 230V 200/208V 220/230V	A HP HP HP HP	27 3 7.5 10 10
·	erformance for single-phase AC motor	at 600V 110/120V 230V 200/208V 220/230V 460/480V	A HP HP HP HP HP	27 3 7.5 10 10 20
Yielded mechanical pe	erformance for single-phase AC motor	at 600V 110/120V 230V 200/208V 220/230V	A HP HP HP HP	27 3 7.5 10 10
·	erformance for single-phase AC motor for three-phase AC motor	at 600V 110/120V 230V 200/208V 220/230V 460/480V	A HP HP HP HP HP	27 3 7.5 10 10 20
Yielded mechanical pe	erformance for single-phase AC motor	at 600V 110/120V 230V 200/208V 220/230V 460/480V 575/600V	A HP HP HP HP HP HP	27 3 7.5 10 10 20 25
Yielded mechanical pe	erformance for single-phase AC motor for three-phase AC motor Contactor	at 600V 110/120V 230V 200/208V 220/230V 460/480V	A HP HP HP HP HP	27 3 7.5 10 10 20
Yielded mechanical pe	erformance for single-phase AC motor for three-phase AC motor Contactor	at 600V 110/120V 230V 200/208V 220/230V 460/480V 575/600V	A HP HP HP HP HP HP	27 3 7.5 10 10 20 25
Yielded mechanical pe	erformance for single-phase AC motor for three-phase AC motor Contactor	at 600V 110/120V 230V 200/208V 220/230V 460/480V 575/600V	A HP HP HP HP HP HP	27 3 7.5 10 10 20 25
Yielded mechanical pe	erformance for single-phase AC motor for three-phase AC motor Contactor	at 600V 110/120V 230V 200/208V 220/230V 460/480V 575/600V	A HP HP HP HP HP HP	27 3 7.5 10 10 20 25
Yielded mechanical pe	erformance for single-phase AC motor for three-phase AC motor Contactor	at 600V 110/120V 230V 200/208V 220/230V 460/480V 575/600V AC current	A HP HP HP HP HP A	27 3 7.5 10 10 20 25 55
Yielded mechanical pe	erformance for single-phase AC motor for three-phase AC motor Contactor	at 600V 110/120V 230V 200/208V 220/230V 460/480V 575/600V AC current Short circuit current	A HP HP HP HP HP A	27 3 7.5 10 10 20 25 55 100 100 100
Yielded mechanical pe	erformance for single-phase AC motor for three-phase AC motor Contactor n fuse, 600V High fault	at 600V 110/120V 230V 200/208V 220/230V 460/480V 575/600V AC current Short circuit current Fuse rating	A HP HP HP HP HP A	27 3 7.5 10 10 20 25 55 55
Yielded mechanical pe	erformance for single-phase AC motor for three-phase AC motor Contactor	at 600V 110/120V 230V 200/208V 220/230V 460/480V 575/600V AC current Fuse rating Fuse class	A HP HP HP HP HP A KA A	27 3 7.5 10 10 20 25 55 55 100 100 100 J
Yielded mechanical pe	erformance for single-phase AC motor for three-phase AC motor Contactor n fuse, 600V High fault	at 600V 110/120V 230V 200/208V 220/230V 460/480V 575/600V AC current Fuse rating Fuse class Short circuit current	A HP HP HP HP HP A KA A	27 3 7.5 10 10 20 25 55 55 100 100 J 5
Yielded mechanical per General USE Short-circuit protection	erformance for single-phase AC motor for three-phase AC motor Contactor n fuse, 600V High fault	at 600V 110/120V 230V 200/208V 220/230V 460/480V 575/600V AC current Fuse rating Fuse class	A HP HP HP HP HP A KA A	27 3 7.5 10 10 20 25 55 55 100 100 100 J
Yielded mechanical per         General USE         Short-circuit protection	erformance for single-phase AC motor for three-phase AC motor Contactor n fuse, 600V High fault	at 600V 110/120V 230V 200/208V 220/230V 460/480V 575/600V AC current Fuse rating Fuse class Short circuit current	A HP HP HP HP HP A KA A	27 3 7.5 10 10 20 25 55 55 100 100 J 5
Yielded mechanical per General USE Short-circuit protection	erformance for single-phase AC motor for three-phase AC motor Contactor n fuse, 600V High fault Standard fault	at 600V 110/120V 230V 200/208V 220/230V 460/480V 575/600V AC current Fuse rating Fuse class Short circuit current	A HP HP HP HP HP A KA A	27 3 7.5 10 10 20 25 55 55 100 100 J 5
Yielded mechanical per         General USE         Short-circuit protection	erformance for single-phase AC motor for three-phase AC motor Contactor n fuse, 600V High fault	at 600V 110/120V 230V 200/208V 220/230V 460/480V 575/600V AC current Fuse rating Fuse class Short circuit current	A HP HP HP HP HP A KA A	27 3 7.5 10 10 20 25 55 55 100 100 J 5



BF3200A110 THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 32A, AC COIL 50/60HZ, 110VAC

	max	°C	70
Storage temperature			
	min	°C	-60
	max	°C	80
Max altitude		m	3000
Resistance & Protection			
Pollution degree			3

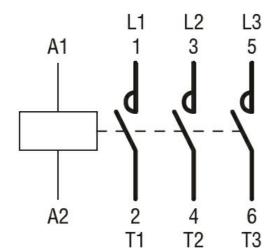
Dimensions



Wiring diagrams



**BF3200A110** THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 32A, AC COIL 50/60HZ, 110VAC



#### Certifications and compliance

Continioutions and c	
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
	UL 60947-4-1
Certificates	
	CCC
	cULus
	EAC
ETIM classification	

**ETIM 8.0** 

EC000066 -Power contactor, AC switching



Product designation Product type designation			Power contactor BF32
Contact characteristics		N I.	2
Number of poles		Nr. V	3
Rated insulation voltage Ui IEC/EN		kV	690 6
Rated impulse withstand voltage Uimp Operational frequency		ĸv	0
Operational frequency	min	Hz	25
	max	nz Hz	25 400
IEC Conventional free air thermal current Ith	IIIdX	A	56
Operational current le		~	50
Operational current le	AC-1 (≤40°C)	А	56
	AC-1 (≤55°C)	A	45
	AC-1 (≤55°C) AC-1 (≤70°C)	A	40
	AC-3 (≤440V ≤55°C)	A	32
	AC-4 (400V)	A	13.5
Rated operational power AC-3 (T≤55°C)	710 + (+001)		10.0
	230V	kW	8.8
	400V	kW	16
	400V 415V	kW	17
	440V	kW	17
	500V	kW	20
	690V	kW	22
Rated operational power AC-1 (T≤40°C)	0001		
	230V	kW	21
	400V	kW	36
	400V 500V	kW	45
	690V	kW	62
IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series	0001	1	02
	≤24V	А	30
	-24V 48V	A	26
	75V	A	22
	110V	A	8
	220V	A	-
IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series	2201	7.	
	≤24V	А	32
	48V	A	32
	75V	A	28
	110V	A	25
	220V	A	3
IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series			
	≤24V	А	32
	48V	A	32
	75V	A	32
	110V	A	27
	220V	A	23
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series			
	≤24V	А	_
	48V	A	_
	75V	A	_
	110V	A	_
	220V	A	_
	2231		

# IEC max current le in DC3-DC5 with L/R $\leq$ 15ms with 1 poles in series



	≤24V	А	20
	48V	А	17
	75V	А	15
	110V	A	2,5
	220V	A	_
IEC max current le in DC3-DC5 with L/R $\leq$ 15ms with 2 poles in series	2201		
TEC max current le in DC3-DC3 with E/R = 15ms with 2 poles in series	≤24V	۸	25
		A	
	48V	A	22
	75V	A	20
	110V	A	15
	220V	Α	3
IEC max current le in DC3-DC5 with $L/R \le 15$ ms with 3 poles in series			
	≤24V	A	30
	48V	А	28
	75V	Α	28
	110V	Α	20
	220V	А	23
IEC max current le in DC3-DC5 with $L/R \le 15$ ms with 4 poles in series			
	≤24V	А	_
	48V	А	_
	75V	А	_
	110V	A	_
	220V	A	_
Short-time allowable current for 10s (IEC/EN60947-1)	2201	A	320
Protection fuse			020
	gG (IEC)	А	63
			32
Making conscitu (DMC value)	aM (IEC)	<u>A</u>	
Making capacity (RMS value)		A	320
Breaking capacity at voltage	4.401.4		050
	440V	A	256
	500V	Α	240
	690V	A	192
Resistance per pole (average value)		mΩ	2
Power dissipation per pole (average value)			
	Ith	W	6
	AC3	W	2
Tightening torque for terminals			
	min	Nm	2.5
	max	Nm	3
	min	lbin	1.8
	max	lbin	2.2
Tightening torque for coil terminal			
	min	Nm	0.8
	max	Nm	1
	min	Ibin	0.8
	max	Ibin	0.74
Max number of wires simultaneously connectable	max	Nr.	2
Conductor section		111.	۷
AWG/Kcmil			G
	max		6
Flexible w/o lug conductor section		2	o =
	min	mm²	2.5
	max	mm²	16



	Flexible c/w lug conduct	or section			
			min	mm²	1
			max	mm²	10
	Flexible with insulated sp	pade lug conductor	section		
			min	mm²	1
			max	mm²	10
Power terminal protect	tion according to IEC/EN 6	30520			IP20 when
· · · · · · · · · · · · · · · · · · ·		00029			properly wired
Mechanical features					
Operating position					
			normal		Vertical plan
			allowable		±30°
Fiving					Screw / DIN rail
Fixing					35mm
Weight				g	424
Conductor section					
	AWG/kcmil conductor se	ection			
			max		6
Operations					
Mechanical life				cycles	20000000
Electrical life				cycles	1600000
Safety related data				eyelee	1000000
	0d according to EN/ISO 1	3489-1			
		0-00 1	rated load	cycles	1600000
			mechanical load	cycles	20000000
Mirror contate accordi	ng to IEC/EN 609474-4-1			Cycles	
EMC compatibility	ING 10 120/211 009474-4-1				yes
					yes
AC coil operating	011-			V	230
Rated AC voltage at 60				V	230
AC operating voltage		0011			
	of 60Hz coil powered at				
		pick-up			
			min	%Us	80
			max	%Us	110
		drop-out			
			min	%Us	20
			max	%Us	55
AC average coil consu	-				
	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 operation				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
					15
			max	ms	10
		Closing NC	max	ms	15

BF3200A110V260 The characteristics described in this document are subject to updates or modifications at any time. The descriptions, technical and functional information, illustrations and instructions in this brochure are purely illustrative, and are consequently not contractually binding



		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 motor			
		at 480V	А	27
		at 600V	А	27
Yielded mechanical p	erformance			
	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	10
		460/480V	HP	20
		575/600V	HP	25
General USE				
	Contactor			
		AC current	А	55
Short-circuit protectio	n fuse, 600V			
I I	High fault			
		Short circuit current	kA	100
		Fuse rating	A	100
		Fuse class		J
	Standard fault			
		Short circuit current	kA	5
		Fuse rating	A	125
Ambient conditions		i dee raang	7.	120
Temperature				
· · · · · · · · · · · · · · · · · · · ·	Operating temperature			
	operating temperature	min	°C	-50
		max	°C	70
	Storage temperature	max	0	
	clorage temperature	min	°C	-60
		max	°C	80
Max altitude		Пах	 	3000
Resistance & Protecti	ion			
Pollution degree				3
ETIM classification				
				EC000066 -
ETIM 8.0				Power contactor,
5.0				AC switching





Contact characteristics         Nr.         3           Number of poles         Nr.         3           Rated insulation voltage UI IEC/EN         V         6           Operational frequency         min         Hz         25           max         Hz         400         1           Operational free air thermal current lth         A         56           Operational current le         AC-1 (≤40°C)         A         56           AC-1 (≤55°C)         A         45         AC-1 (≤55°C)         A         40           AC-3 (≤440V)         S5         AC-4 (400V)         A         13.5           Rated operational power AC-3 (T≤55°C)         230V         kW         8.8           400V         kW         16         415V         KW         17           500V         kW         22         230V         kW         21           4400V         kW         17         500V         kW         22           Rated operational power AC-1 (T≤40°C)         230V         kW         21           400V         kW         17         500V         kW         42           EC max current le in DC1 with L/R ≤ 1ms with 1 poles in series         24V         A	Product designation Product type designation			Power contactor BF32
Number of poles         Nr.         3           Rated insulation voltage Ui IEC/EN         V         690           Operational frequency         min         Hz         25           max         Hz         400           EEC Conventional free air thermal current lth         A         56           Operational current le         AC-1 (540°C)         A         45           AC-1 (555°C)         A         45         AC-1 (555°C)         A         40           AC-3 (5440° S5°C)         A         40         AC-3 (540° C)         A         40           AC-3 (540° C)         A         45         AC-1 (57°C)         A         40           AC-4 (400V)         A         13.5         3         3           Rated operational power AC-3 (T≤55°C)         230V         kW         17           440V         KW         17         500V         kW         17           500V         kW         22         230V         kW         17           400V         kW         17         500V         kW         22           Rated operational power AC-1 (T≤40°C)         230V         kW         22           EC max current le in DC1 with L/R ≤ 1ms with 1 poles in series <th>Contact characteristics</th> <th></th> <th></th> <th>3. 02</th>	Contact characteristics			3. 02
Rated insulation voltage Ui IEC/EN         V         690           Rated inpulse withstand voltage Uimp         KV         6           Operational frequency         min         Hz         25           max         Hz         400         56           Operational current le         A C-1 (≤40°C)         A         56           Operational current le         AC-1 (≤40°C)         A         40           AC-3 (≤440V ≤55°C)         A         32         AC-4 (400V)         A           AC-4 (400V)         A         3.5         AC-4 (400V)         A         3.5           Rated operational power AC-3 (T≤55°C)         230V         kW         8.8         400V         kW         17           440V         kW         17         500V         kW         17         500V         kW         22           Rated operational power AC-1 (T≤40°C)         230V         kW         21         400V         kW         22           Rated operational power AC-1 (T≤40°C)         230V         kW         22         230V         kW         22           IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series         524V         A         30         48V         A         22           IE	Number of poles		Nr.	3
Operational frequency         min         Hz         25           max         Hz         400           IEC Conventional free air thermal current lth         A         56           Operational current le         AC-1 (≤40°C)         A         45           AC-1 (≤55°C)         A         45         AC-1 (≤70°C)         A         40           AC-3 (≤440V ≤55°C)         A         32         AC-4 (400V)         A         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         21         230V         kW         22         22           Rated operational power AC-1 (T≤40°C)         230V         kW         21         400V         kW         26           690V         kW         22         230V         kW         22         22           Rated operational power AC-1 (T≤40°C)         230V         kW         22         230V         kW         22           EC max current le in DC1 with L/R ≤ 1ms with 1 poles in series         24V         A         32 <td>Rated insulation voltage Ui IEC/EN</td> <td></td> <td>V</td> <td>690</td>	Rated insulation voltage Ui IEC/EN		V	690
Operational frequency         min         Hz         25           max         Hz         400           IEC Conventional free air thermal current lth         A         56           Operational current le         AC-1 (≤40°C)         A         45           AC-1 (≤55°C)         A         45         AC-1 (≤70°C)         A         40           AC-3 (≤440V ≤55°C)         A         32         AC-4 (400V)         A         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         21         230V         kW         22         22           Rated operational power AC-1 (T≤40°C)         230V         kW         21         400V         kW         26           690V         kW         22         230V         kW         22         22           Rated operational power AC-1 (T≤40°C)         230V         kW         22         230V         kW         22           EC max current le in DC1 with L/R ≤ 1ms with 1 poles in series         24V         A         32 <td>Rated impulse withstand voltage Uimp</td> <td></td> <td>kV</td> <td>6</td>	Rated impulse withstand voltage Uimp		kV	6
max         Hz         400           IEC Conventional free air thermal current lth         A         56           Operational current le         AC-1 (≤40°C)         A         56           AC-1 (≤55°C)         A         45         AC-1 (≤40°C)         A         32           AC-3 (≤440V)         S5         AC-1 (≤40°C)         A         32           AC-3 (≤440V)         S5         S2         AC-4 (400V)         A         13.5           Rated operational power AC-3 (T≤55°C)         230V         kW         8.8         400V         kW         16           415V         kW         17         440V         kW         17           440V         kW         17         440V         kW         17           440V         kW         17         440V         kW         20           690V         kW         22         230V         kW         21           400V         kW         21         400V         kW         26           500V         kW         42         42         43         44           690V         kW         42         44         42         44           62         KW         4	Operational frequency			
LEC Conventional free air thermal current lthA56Operational current leAC-1 (\$40°C)A56AC-1 (\$55°C)A45AC-1 (\$55°C)A40AC-3 (\$4400 \$55°C)A32AC-4 (400V)A13.5Rated operational power AC-3 (T≤55°C)230VKW8.8400VKW16415VKW17440VKW17500VKW20690VKW22Rated operational power AC-1 (T≤40°C)230VKW21400VKW400VKW45690VKW45690VKW45690VKW45690VKW421EC max current le in DC1 with L/R ≤ 1ms with 1 poles in series\$24VA321EC max current le in DC1 with L/R ≤ 1ms with 2 poles in series\$24VA321EC max current le in DC1 with L/R ≤ 1ms with 3 poles in series\$24VA321EC max current le in DC1 with L/R ≤ 1ms with 3 poles in series\$24VA321EC max current le in DC1 with L/R ≤ 1ms with 3 poles in series\$24VA321EC max current le in DC1 with L/R ≤ 1ms with 3 poles in series\$24VA321EC max current le in DC1 with L/R ≤ 1ms with 3 poles in series\$24VA321EC max current le in DC1 with L/R ≤ 1ms with 3 poles in series\$24VA321EC max current le in DC1 with L/R ≤ 1ms with 3 poles in series\$24V<		min	Hz	25
Operational current le       AC-1 (≤40°C)       A       56         AC-1 (≤55°C)       A       45         AC-1 (≤70°C)       A       40         AC-3 (≤440V ≤55°C)       A       32         Rated operational power AC-3 (T≤55°C)       230V       kW       8.8         400V       kW       16         415V       kW       17         440V       kW       17         440V       kW       17         500V       kW       20         690V       kW       20         690V       kW       21         400V       kW       36         500V       kW       21         400V       kW       45         690V       kW       22         Rated operational power AC-1 (T≤40°C)       230V       kW       21         400V       kW       30       48V       A       26         500V       kW       42       10       48V       A       26         75V       A       22       110V       A       8       220V       A       -         IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series       \$24V       A </td <td></td> <td>max</td> <td>Hz</td> <td>400</td>		max	Hz	400
AC-1 (≤40°C) A 56 AC-1 (≤55°C) A 45 AC-1 (≤50°C) A 40 AC-3 (≤400∨ 555°C) A 32 AC-4 (400V) A 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 440V kW 36 500V kW 45 690V kW 45	IEC Conventional free air thermal current Ith		А	56
AC-1 (≤55°C)       A       45         AC-1 (≤70°C)       A       40         AC-3 (5440V)       A       13.5         Rated operational power AC-3 (T≤55°C)       230V       kW       8.8         400V       kW       16         415V       kW       17         500V       kW       17         500V       kW       22         Rated operational power AC-1 (T≤40°C)       230V       kW       21         400V       kW       17       500V       kW       22         Rated operational power AC-1 (T≤40°C)       230V       kW       21         400V       kW       21       400V       kW       36         500V       kW       42       400V       kW       36         690V       kW       42       400V       kW       32         IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series       224V       A       30         48V       A       22       110V       A       8         220V       A       32       75V       A       22         IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series       224V       A       32	Operational current le			
AC-1 (≤70°C)       A       40         AC-3 (≤440V ≤55°C)       A       32         AC-4 (400V)       A       13.5         Rated operational power AC-3 (T≤55°C)       230V       kW       8.8         400V       kW       16         415V       kW       17         440V       kW       17         440V       kW       17         500V       kW       20         690V       kW       22         Rated operational power AC-1 (T≤40°C)       230V       kW       21         400V       kW       23       30       48V       45         690V       kW       22       30       48V       4       26         75V       A       22       22       30       48V       A       22         IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series       ≤24V       A       32         48V       A       32       75V       A       32         48V       A       32       22       22       22         IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series       ≤24V       A       32         110V       A       22 </td <td></td> <td></td> <td>А</td> <td></td>			А	
AC-3 (≤440V ≤55°C)       A       32         AC-4 (400V)       A       13.5         Rated operational power AC-3 (T≤55°C)       230V       kW       8.8         400V       kW       16       415V       kW       17         400V       kW       17       500V       kW       20         690V       kW       22       690V       kW       22         Rated operational power AC-1 (T≤40°C)       230V       kW       21       400V       kW       36         500V       kW       21       400V       kW       36       500V       kW       42         EC max current le in DC1 with L/R ≤ 1ms with 1 poles in series       ≤24V       A       30       48V       A       26         75V       A       22       110V       A       8       220V       A       -         EC max current le in DC1 with L/R ≤ 1ms with 2 poles in series       ≤24V       A       32       32         48V       A       32       75V       A       22       22       20V       A       32         EC max current le in DC1 with L/R ≤ 1ms with 3 poles in series       ≤24V       A       32       32         EC max current le in DC			А	
AC-4 (400V)       A       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       22         Rated operational power AC-1 (T≤40°C)       230V       kW       21         400V       kW       36       500V       kW       36         690V       kW       36       500V       kW       45         690V       kW       45       690V       kW       46         110V       A       26       22       110V       A       8       220V       A       30       48V       A       26       75V       A       22       110V       A       8       220V       A       3       220V       A       3       22       48V       A       32       3       26       75V       A       28       110V       A       8       22       22       48V       A       32       3       26       75V       A       28       110V       A       32       26       75V       A       32       26				
Rated operational power AC-3 (T≤55°C) 230V kW 8.8 400V kW 16 415V 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 45 690V kW 62 IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series ≤24V A 30 48V A 26 75V A 22 110V A 8 220V A - IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series ≤24V A 32 110V A 8 220V A - IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series ≤24V A 32 75V A 22 110V A 25 220V A 32 110V A 3				
		AC-4 (400V)	A	13.5
	Rated operational power AC-3 (T≤55°C)			
$ \begin{array}{cccc} 415 \lor & k \cr & 17 \\ 440 \lor & k \cr & 17 \\ 500 \lor & k \cr & 20 \\ 690 \lor & k \cr & 22 \\ \end{array}$ Rated operational power AC-1 (T≤40°C) $ \begin{array}{cccc} 230 \lor & k \cr & 21 \\ 400 \lor & k \cr & 36 \\ 500 \lor & k \cr & 36 \\ 500 \lor & k \cr & 45 \\ 690 \lor & k \cr & 45 \\ 690 \lor & k \cr & 62 \\ \end{array}$ IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series $ \begin{array}{ccccc} \leq 24 \lor & A & 30 \\ 48 \lor & A & 26 \\ 75 \lor & A & 22 \\ 110 \lor & A & 8 \\ 220 \lor & A & - \\ \end{array}$ IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series $ \begin{array}{cccccccccccccccccccccccccccccccccccc$				
$ \begin{array}{c cccc} 440 \vee & kW & 17 \\ 500 \vee & kW & 20 \\ 690 \vee & kW & 22 \end{array} \\ \hline \\ \mbox{Rated operational power AC-1 (T \le 40 ^{\circ} C)} & & & & & & & & & & & & & & & & & & &$				
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       45         690V       kW       45         690V       kW       45         690V       kW       42         IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series         ≤24V       A       30         48V       A       26         75V       A       22         110V       A       8         220V       A       -         IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series       ≤         ≤24V       A       32         48V       A       32         75V       A       28         110V       A       25         220V       A       3         IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series       ≤         IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series       ≤         ≤24V       A       32				
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       A       30         48V       A       26       75V       A       22         110V       A       8       220V       A       -         IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series       ≤24V       A       32         IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series       ≤24V       A       32         IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series       ≤24V       A       32         IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series       ≤24V       A       32         IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series       ≤24V       A       32         IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series       ≤24V       A       32         IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series       ≤24V       A       32         IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series       ≤24V       A				
Rated operational power AC-1 (T≤40°C) $ \begin{array}{r} 230V & kW & 21 \\ 400V & kW & 36 \\ 500V & kW & 45 \\ 690V & kW & 62 \end{array} $ IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series $ \begin{array}{r} \leq 24V & A & 30 \\ 48V & A & 26 \\ 75V & A & 22 \\ 110V & A & 8 \\ 220V & A & - \end{array} $ IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series $ \begin{array}{r} \leq 24V & A & 30 \\ 48V & A & 26 \\ 75V & A & 22 \\ 110V & A & 8 \\ 220V & A & - \end{array} $ IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series $ \begin{array}{r} \leq 24V & A & 32 \\ 48V & A & 32 \\ 75V & A & 28 \\ 110V & A & 25 \\ 220V & A & 3 \end{array} $ IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series $ \begin{array}{r} \leq 24V & A & 32 \\ 48V & A & 32 \\ 75V & A & 28 \\ 110V & A & 25 \\ 220V & A & 3 \end{array} $				
$\begin{array}{c} 230 \vee  k \vee  21 \\ 400 \vee  k \vee  36 \\ 500 \vee  k \vee  45 \\ 690 \vee  k \vee  62 \end{array}$	Deted energtional newer AC 1 (T<40°C)	690 V	KVV	22
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	Rated operational power AC-1 ( $1 \leq 40$ C)	2201/	L\\/	24
$\begin{array}{c c c c c c c c c c c c c c c c c c c $				
EC max current le in DC1 with L/R ≤ 1ms with 1 poles in series $\leq 24V$ A3048VA2675VA22110VA8220VA-IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series $\leq 24V$ A3248VA3275VA28110VA25220VA3IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series $\leq 24V$ A32110VA25220VA3IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series $\leq 24V$ A3248VA3248VA3275VA3248VA3275VA3275VA32				
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	IFC max current le in DC1 with $I/R \le 1$ ms with 1 poles in series	0001		02
$ \begin{array}{c cccc} 48V & A & 26\\ 75V & A & 22\\ 110V & A & 8\\ 220V & A & -\\ \end{array} \\ \hline \begin{tabular}{lllllllllllllllllllllllllllllllllll$		<24\/	Δ	30
$\begin{array}{c cccc} 75 & A & 22 \\ 110 & A & 8 \\ 220 & A & - \end{array}$ IEC max current le in DC1 with L/R $\leq$ 1ms with 2 poles in series $\begin{array}{c ccccccccccccccccccccccccccccccccccc$				
$\begin{array}{c cccc} 110 & A & 8\\ 220 & A & -\\ \hline \\ $				
$220V$ A $-$ IEC max current le in DC1 with L/R < 1ms with 2 poles in series				
$ \begin{array}{c cccc} \leq 24 & A & 32 \\ & 48 & A & 32 \\ & 75 & A & 28 \\ & 110 & A & 25 \\ & 220 & A & 3 \end{array} \\ \hline \\$			А	
$ \begin{array}{c cccc} \leq 24 & A & 32 \\ & 48 & A & 32 \\ & 75 & A & 28 \\ & 110 & A & 25 \\ & 220 & A & 3 \end{array} \\ \hline \\$	IEC max current le in DC1 with $L/R \le 1$ ms with 2 poles in series			
$ \begin{array}{cccc} 48 & A & 32 \\ 75 & A & 28 \\ 110 & A & 25 \\ 220 & A & 3 \end{array} $ IEC max current le in DC1 with L/R $\leq$ 1ms with 3 poles in series $ \begin{array}{cccc} \leq 24 & A & 32 \\ 48 & A & 32 \\ 75 & A & 32 \end{array} $		≤24V	А	32
$ \begin{array}{c cccc} 110 V & A & 25 \\ 220 V & A & 3 \end{array} \\ \hline \mbox{IEC max current le in DC1 with L/R } \le 1 \mbox{ms with 3 poles in series} \\ & \leq 24 V & A & 32 \\ & 48 V & A & 32 \\ & 75 V & A & 32 \end{array} $		48V		
$\begin{array}{c c c c c c c c c c c c c c c c c c c $		75V	А	28
IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series ≤24V A 32 48V A 32 75V A 32		110V	А	25
≤24V A 32 48V A 32 75V A 32		220V	Α	3
48V A 32 75V A 32	IEC max current le in DC1 with $L/R \le 1$ ms with 3 poles in series			
75V A 32			А	
			А	
110V A 27				
		110V	А	27



BF3200A230 THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 32A, AC COIL 50/60HZ, 230VAC

	220V	А	23
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series			
	≤24V	А	_
	48V	A	_
	75V	A	_
	110V	A	_
	220V	A	_
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series	2201	/\	
	≤24V	А	20
	48V	A	17
	48V 75V	A	15
	110V	A	
			2,5
	220V	A	-
IEC max current le in DC3-DC5 with L/R $\leq$ 15ms with 2 poles in series			
	≤24V	A	25
	48V	А	22
	75V	A	20
	110V	А	15
	220V	Α	3
IEC max current le in DC3-DC5 with L/R $\leq$ 15ms with 3 poles in series			
	≤24V	А	30
	48V	А	28
	75V	А	28
	110V	А	20
	220V	А	23
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series			
·	≤24V	А	_
	48V	А	_
	75V	A	_
	110V	A	_
	220V	A	_
Short-time allowable current for 10s (IEC/EN60947-1)	2201	A	320
Protection fuse		~	520
Fiotection fuse	gG (IEC)	۸	60
		A	63
Malian ann aite (DMO salva)	aM (IEC)	A	32
Making capacity (RMS value)		А	320
Breaking capacity at voltage		_	
	440V	A	256
	500V	А	240
	690V	Α	192
Resistance per pole (average value)		mΩ	2
Power dissipation per pole (average value)			
	lth	W	6
	AC3	W	2
Tightening torque for terminals			
	min	Nm	2.5
	max	Nm	3
	min	Ibin	1.8
	max	Ibin	2.2
Tightening torque for coil terminal	max		
	min	Nm	0.8
		Nm	1
	max		
	min	lbin	0.8



THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 32A, AC COIL 50/60HZ, 230VAC

	max	Ibin	0.74
	simultaneously connectable	Nr.	2
Conductor section			
	AWG/Kcmil		0
	max		6
	Flexible w/o lug conductor section min	mm²	2.5
	max	mm²	16
	Flexible c/w lug conductor section		10
	min	mm²	1
	max	mm²	10
	Flexible with insulated spade lug conductor section		
	min	mm²	1
	max	mm²	10
Power terminal prote	ction according to IEC/EN 60529		IP20 when properly wired
Mechanical features			
Operating position			
	normal allowable		Vertical plan ±30°
Fixing			Screw / DIN rail 35mm
Weight		g	424
Conductor section			
	AWG/kcmil conductor section		
	max		6
Operations			
Mechanical life		cycles	2000000
Electrical life		cycles	1600000
Safety related data	Ind according to ENVISO 12490.1		
Performance level b	10d according to EN/ISO 13489-1 rated load	cycles	1600000
	mechanical load	cycles	2000000
Mirror contats accord	ing to IEC/EN 609474-4-1	0y0l00	yes
EMC compatibility			yes
AC coil operating			<i></i>
Rated AC voltage at	50/60Hz	V	230
AC operating voltage			
	of 50/60Hz coil powered at 50Hz		
	pick-up		
	min	%Us	80
	max	%Us	110
	drop-out	0/11-	20
	min	%Us %Us	20 55
	of 50/60Hz coil powered at 60Hz	/005	55
	pick-up		
	min	%Us	85
	max	%Us	110
	drop-out		
	min	%Us	20
	max	%Us	55
AC average coil cons			

BF3200A230



THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 32A, AC COIL 50/60HZ, 230VAC

BF3200A230

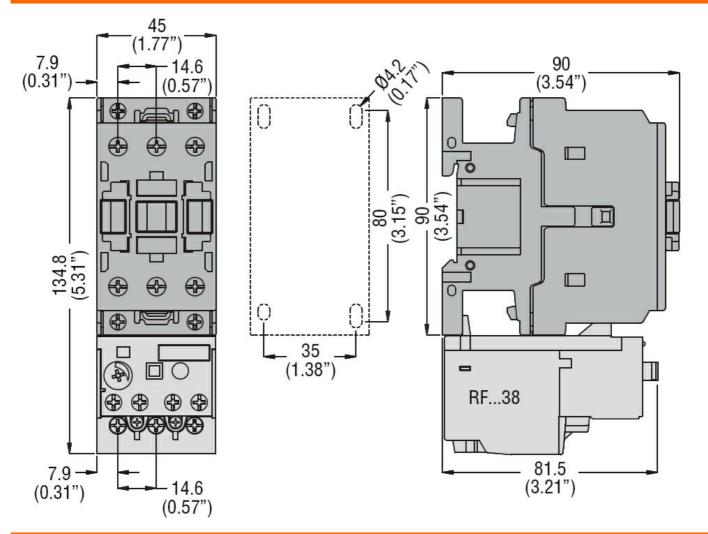
		in-rush	VA	75
		holding	VA	9
	of 50/60Hz coil powered at 60Hz	Hereinig	•	•
		in-rush	VA	70
		holding	VA VA	6.5
	of COLIE and new grad of COLIE	noiding	VA	0.0
	of 60Hz coil powered at 60Hz			
		in-rush	VA	75
		holding	VA	9
Dissipation at holdin			W	2.5
Max cycles frequence	су — — — — — — — — — — — — — — — — — — —			
Mechanical operation	n		cycles/h	3600
Operating times				
Average time for Us	control			
-	in AC			
	Closing NO			
		min	ms	8
		max	ms	24
	Opening NO	Παλ	113	<u> </u>
			ma	5
		min	ms	
		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 (FL	A) for three-phase AC motor			
		at 480V	А	27
		at 600V	А	27
Yielded mechanical	performance			
	for single-phase AC motor			
		110/120V	HP	3
		230V	HP	7.5
	for three phase AC motor	230 V	1 11	1.5
	for three-phase AC motor	200/2001	ЦБ	10
		200/208V	HP	10
		220/230V	HP	10
		460/480V	HP	20
		575/600V	HP	25
General USE				
	Contactor			
		AC current	А	55
Short-circuit protecti	on fuse, 600V			
1	High fault			
	0	Short circuit current	kA	100
		Fuse rating	A	100
		Fuse class	13	J
	Standard fault	1 436 61932		0
	อเล่านลาน เล่นเป	Object along the second	1. 4	<i>-</i>
		Short circuit current	kA	5
		Fuse rating	A	125
Ambient conditions				
Temperature				
	Operating temperature			
		min	°C	-50



BF3200A230 THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 32A, AC COIL 50/60HZ, 230VAC

	max	°C	70
Storage temperature			
	min	°C	-60
	max	°C	80
Max altitude		m	3000
Resistance & Protection			
Pollution degree			3

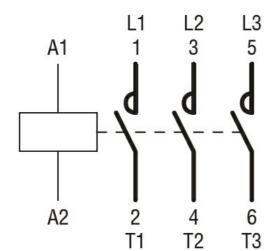
Dimensions



Wiring diagrams



**BF3200A230** THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 32A, AC COIL 50/60HZ, 230VAC



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

**ETIM 8.0** 

EC000066 -Power contactor, AC switching





Product designation			Power contactor
Product type designation			BF32
Contact characteristics		Nr.	3
Number of poles Rated insulation voltage Ui IEC/EN		V	<u> </u>
Rated insulation voltage Onec/EN Rated impulse withstand voltage Uimp		kV	6
Operational frequency		ĸv	0
Operational frequency	min	Hz	25
	max	Hz	400
IEC Conventional free air thermal current Ith	IIIdA	A	56
Operational current le		~	50
	AC-1 (≤40°C)	А	56
	AC-1 (≤55°C)	A	45
	AC-1 (≤70°C)	A	40
	AC-3 (≤440V ≤55°C)	A	32
	AC-4 (400V)	A	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 $L/R \le 1$ ms with 1 poles in series			
	≤24V	А	30
	48V	А	26
	75V	A	22
	110V	A	8
	220V	A	-
IEC max current le in DC1 with $L/R \le 1$ ms with 2 poles in series			
	≤24V	A	32
	48V	A	32
	75V	A	28
	110V	A	25
IEC may summat be in DC1 with $1/D < 1$ are with 2 males in particular	220V	A	3
IEC max current le in DC1 with $L/R \le 1$ ms with 3 poles in series	-0111	۸	22
	≤24V	A	32
	48V 75V	A	32
	75V 110V	A	32
	110V	А	27



THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 32A, AC COIL 50/60HZ, 230VAC - IEC/EN/BS 60335-1

BF3200A230V260

ENERGY AND AUTOMATION 230VAC - IEC/EN/BS 60335-7 220V A 23IEC max current le in DC1 with L/R  $\leq$  1ms with 4 poles in series  $\leq 24V A -$  48V A - 75V A - 110V A -

	75V	A	-	
	110V	А	_	
	220V	А	_	
IEC max current le in DC3-DC5 with L/R $\leq$ 15ms with 1 poles in series	220 V			
The current leaf dos-dos with $L/R \leq 15$ might poles in series	(0.1) (			
	≤24V	A	20	
	48V	А	17	
	75V	А	15	
	110V	А	2,5	
	220V	А	_	
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series				
	<0417	۸	05	
	≤24V	A	25	
	48V	А	22	
	75V	Α	20	
	110V	А	15	
	220V	А	3	
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series			0	
	-011/	۸	20	
	≤24V	A	30	
	48V	А	28	
	75V	А	28	
	110V	А	20	
	220V	А	23	
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series				
	<0417	۸		
	≤24V	A	_	
	48V	А	-	
	75V	А	-	
	110V	А	_	
	220V	А	_	
Short-time allowable current for 10s (IEC/EN60947-1)		А	320	
Protection fuse			020	
FIOLECTION TUSE				
	gG (IEC)	А	63	
	aM (IEC)	А	32	
Making capacity (RMS value)		А	320	
Breaking capacity at voltage				
	440V	А	256	
	500V		230	
		A		
	690V	A	192	
Resistance per pole (average value)		mΩ	2	
Power dissipation per pole (average value)				
	lth	W	6	
	AC3	W	2	
Tightening torque for terminals	,		_	
			0.5	
	min	Nm	2.5	
	max	Nm	3	
	min	lbin	1.8	
	max	lbin	2.2	
Tightening torque for coil terminal				
	min	Nim	0.8	
	min	Nm	0.8	
	max	Nm	1	
			~ ~	

Ibin

min

0.8



THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 32A, AC COIL 50/60HZ, 230VAC - IEC/EN/BS 60335-1

BF3200A230V260

		max	lbin	0.74
Max number of wires	simultaneously connectable		Nr.	2
Conductor section	AWG/Kcmil			
	AWO/AGIIII	max		6
	Flexible w/o lug conductor section			
	Ŭ	min	mm²	2.5
		max	mm²	16
	Flexible c/w lug conductor section		_	
		min	mm²	1
	Flowible with insulated anode lug conductor costion	max	mm²	10
	Flexible with insulated spade lug conductor section	min	mm²	1
		max	mm²	10
		max		IP20 when
Power terminal protect	ction according to IEC/EN 60529			properly wired
Mechanical features				
Operating position				
		normal		Vertical plan
		allowable		±30° Screw / DIN rai
Fixing				35mm
Weight			g	424
Conductor section				
	AWG/kcmil conductor section			
		max		6
Operations				
Mechanical life			cycles	2000000
Electrical life Safety related data			cycles	1600000
	0d according to EN/ISO 13489-1			
Performance level B1			cycles	4000000
Performance level B1		rated load		1600000
Performance level B1		rated load echanical load	•	1600000 20000000
			cycles	
Mirror contats accord	me		•	2000000
Mirror contats accordi EMC compatibility AC coil operating	me ing to IEC/EN 609474-4-1		cycles	20000000 yes yes
Mirror contats accord EMC compatibility AC coil operating Rated AC voltage at 6	me ing to IEC/EN 609474-4-1		•	20000000 yes
Mirror contats accordi EMC compatibility AC coil operating	me ing to IEC/EN 609474-4-1 60Hz		cycles	20000000 yes yes
Mirror contats accord EMC compatibility AC coil operating Rated AC voltage at 6	ing to IEC/EN 609474-4-1 60Hz of 60Hz coil powered at 60Hz		cycles	20000000 yes yes
Mirror contats accord EMC compatibility AC coil operating Rated AC voltage at 6	me ing to IEC/EN 609474-4-1 60Hz	echanical load	V	20000000 yes yes 230
Mirror contats accord EMC compatibility AC coil operating Rated AC voltage at 6	ing to IEC/EN 609474-4-1 60Hz of 60Hz coil powered at 60Hz		cycles	20000000 yes yes
Mirror contats accord EMC compatibility AC coil operating Rated AC voltage at 6	ing to IEC/EN 609474-4-1 60Hz of 60Hz coil powered at 60Hz	echanical load min	V V VUs	20000000 yes yes 230 80
Mirror contats accord EMC compatibility AC coil operating Rated AC voltage at 6	ing to IEC/EN 609474-4-1 60Hz of 60Hz coil powered at 60Hz pick-up	echanical load min	v v %Us %Us %Us	20000000 yes yes 230 80 110 20
Mirror contats accord EMC compatibility AC coil operating Rated AC voltage at 6 AC operating voltage	ing to IEC/EN 609474-4-1 30Hz of 60Hz coil powered at 60Hz pick-up drop-out	echanical load min max	V V %Us %Us	20000000 yes yes 230 80 110
Mirror contats accord EMC compatibility AC coil operating Rated AC voltage at 6 AC operating voltage	ing to IEC/EN 609474-4-1 50Hz of 60Hz coil powered at 60Hz pick-up drop-out umption at 20°C	echanical load min max min	v v %Us %Us %Us	20000000 yes yes 230 80 110 20
Mirror contats accord EMC compatibility AC coil operating Rated AC voltage at 6 AC operating voltage	ing to IEC/EN 609474-4-1 30Hz of 60Hz coil powered at 60Hz pick-up drop-out	echanical load min max min max	V V %Us %Us %Us %Us	20000000 yes yes 230 80 110 20 55
Mirror contats accord EMC compatibility AC coil operating Rated AC voltage at 6 AC operating voltage	ing to IEC/EN 609474-4-1 50Hz of 60Hz coil powered at 60Hz pick-up drop-out umption at 20°C	echanical load min max min max in-rush	V V %Us %Us %Us %Us %Us	20000000 yes yes 230 80 110 20 55
Mirror contats accordi EMC compatibility AC coil operating Rated AC voltage at 6 AC operating voltage	ing to IEC/EN 609474-4-1 50Hz of 60Hz coil powered at 60Hz pick-up drop-out umption at 20°C of 60Hz coil powered at 60Hz	echanical load min max min max	v v v v v v v v v v s v v a v A v A	20000000 yes yes 230 80 110 20 55 55
Mirror contats accord EMC compatibility AC coil operating Rated AC voltage at 6 AC operating voltage	ing to IEC/EN 609474-4-1 50Hz of 60Hz coil powered at 60Hz pick-up drop-out umption at 20°C of 60Hz coil powered at 60Hz ≤20°C 50Hz	echanical load min max min max in-rush	V V %Us %Us %Us %Us %Us	20000000 yes yes 230 80 110 20 55
Mirror contats accordi EMC compatibility AC coil operating Rated AC voltage at 6 AC operating voltage	ing to IEC/EN 609474-4-1 50Hz of 60Hz coil powered at 60Hz pick-up drop-out umption at 20°C of 60Hz coil powered at 60Hz ≤20°C 50Hz	echanical load min max min max in-rush	v v v v v v v v v v s v v a v A v A	20000000 yes yes 230 80 110 20 55 75 9 2.5

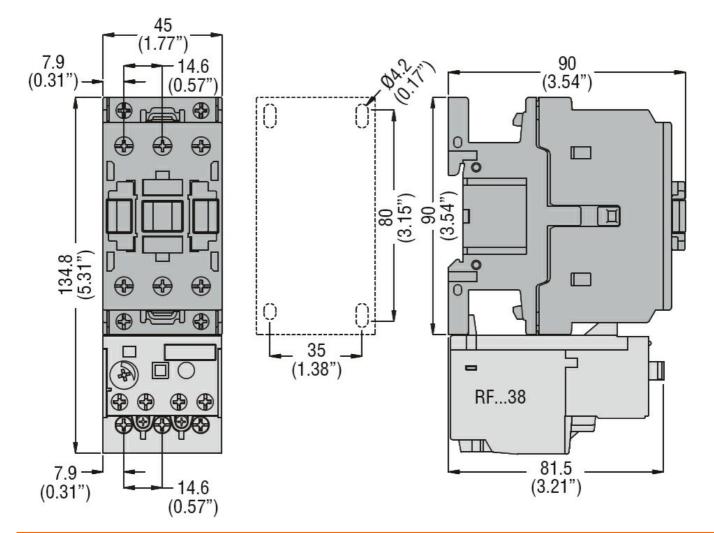


Average time for Us of	control				
	in AC				
		Closing NO			
			min	ms	8
			max	ms	24
		Opening NO			_
			min	ms	5
			max	ms	15
		Closing NC	min		0
			min max	ms ms	9 20
		Opening NC	IIIdA	1113	20
		opening No	min	ms	9
			max	ms	17
UL technical data					
	) for three-phase AC mo	otor			
Ŷ	•		at 480V	А	27
			at 600V	А	27
Yielded mechanical p	erformance				
	for single-phase AC r	notor			
			110/120V	HP	3
			230V	HP	7.5
	for three-phase AC m	otor			
			200/208V	HP	10
			220/230V	HP	10
			460/480V	HP	20
0			575/600V	HP	25
General USE	Ocartostan				
	Contactor			^	FF
Short-circuit protectio	n fuen 600\/		AC current	A	55
Short-circuit protectio	High fault				
	TigiTiauit		Short circuit current	kA	100
			Fuse rating	A	100
			Fuse class	7.	J
	Standard fault				-
			Short circuit current	kA	5
			Fuse rating	А	125
Ambient conditions					
Temperature					
	Operating temperatur	e			
			min	°C	-50
			max	°C	70
	Storage temperature				
			min	°C	-60
			max	°C	80
Max altitude				m	3000
Resistance & Protecti	ion				2
Pollution degree					3
Dimensions					

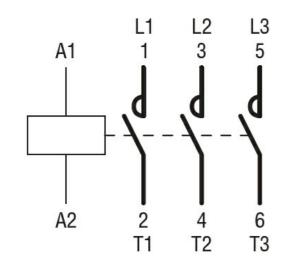
BF3200A230V260



THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 32A, AC COIL 50/60HZ, 230VAC - IEC/EN/BS 60335-1



Wiring diagrams



### Certifications and compliance

Compliance	
	CSA C22.2 n° 60947-1
	CSA C22.2 n° 60947-4-1
	IEC/EN/BS 60335-1
	IEC/EN/BS 60947-1
	IEC/EN/BS 60947-4-1



BF3200A230V260 THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 32A, AC COIL 50/60HZ, 230VAC - IEC/EN/BS 60335-1

 UL 60947-1

 UL 60947-4-1

 Certificates

 CCC

 cULus

 EAC

ETIM 8.0

EC000066 -Power contactor, AC switching





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		А	56
Operational current le			
	AC-1 (≤40°C)	А	56
	AC-1 (≤55°C)	А	45
	AC-1 (≤70°C)	А	40
	AC-3 (≤440V ≤55°C)	А	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 $L/R \le 1$ ms with 1 poles in series			
	≤24V	А	30
	48V	А	26
	75V	А	22
	110V	А	8
	220V	A	-
IEC max current le in DC1 with $L/R \le 1$ ms with 2 poles in series			
	≤24V	А	32
	48V	А	32
	75V	А	28
	110V	А	25
	220V	А	3
IEC max current le in DC1 with $L/R \le 1$ ms with 3 poles in series			
	≤24V	А	32
	48V	А	32
	75V	А	32
	110V	А	27

BF3200A400



THREE-POLE CONT/ 400VAC

BI	F3200A400
ACTOR, IEC OPERATING CURRENT IE (AC3) = 32A, AC C	OIL 50/60HZ,
	400\/AC

	220V	А	23
IEC max current le in DC1 with $L/R \le 1$ ms with 4 poles in series			
	≤24V	А	_
	48V	А	_
	75V	А	_
	110V	А	_
	220V	А	-
IEC max current le in DC3-DC5 with L/R $\leq$ 15ms with 1 poles in series			
	≤24V	А	20
	48V	А	17
	75V	А	15
	110V	А	2,5
	220V	Α	_
IEC max current le in DC3-DC5 with L/R $\leq$ 15ms with 2 poles in series			
	≤24V	А	25
	48V	А	22
	75V	А	20
	110V	А	15
	220V	А	3
IEC max current le in DC3-DC5 with L/R $\leq$ 15ms with 3 poles in series			
	≤24V	А	30
	48V	А	28
	75V	А	28
	110V	А	20
	220V	А	23
IEC max current le in DC3-DC5 with $L/R \le 15$ ms with 4 poles in series			
	≤24V	А	_
	48V	А	_
	75V	А	_
	110V	А	_
	220V	А	_
Short-time allowable current for 10s (IEC/EN60947-1)		А	320
Protection fuse			
	gG (IEC)	А	63
	aM (IEC)	А	32
Making capacity (RMS value)		А	320
Breaking capacity at voltage			
	440V	А	256
	500V	А	240
	690V	А	192
Resistance per pole (average value)		mΩ	2
Power dissipation per pole (average value)			
	lth	W	6
	AC3	W	2
Tightening torque for terminals			
	min	Nm	2.5
	max	Nm	3
	min	Ibin	1.8
	max	Ibin	2.2
Tightening torque for coil terminal	max		
	min	Nm	0.8
	max	Nm	1
	min	Ibin	0.8
	11111	10111	0.0

BF3200A400



THREE-PO

DLE CONTACTOR, IEC OPERATING CURRENT	IE (AC3)	) = 32A,	AC COIL	_ 50/60HZ, 400VAC	
	max	Ibin	0.74		
sly connectable		Nr.	2		_
					-

BF3200A400

		max	niai	0.74
Max number of wires s	simultaneously connectable		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	4
		min max	mm² mm²	1 10
	Flexible with insulated spade lug conductor section	max		10
		min	mm²	1
		max	mm²	10
Dower terminal protec	tion apporting to IEC/EN COE20			IP20 when
Power terminal protec	tion according to IEC/EN 60529			properly wired
Mechanical features				
Operating position				
		normal		Vertical plan
		allowable		±30°
Fixing				Screw / DIN rail 35mm
Weight			g	428
Conductor section			Э	120
	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
		chanical load	cycles	2000000
	ng to IEC/EN 609474-4-1			yes
EMC compatibility				yes
Rated AC voltage at 5	:0/60Hz		V	400
AC operating voltage	0/00112		v	400
to operating voltage	of 50/60Hz coil powered at 50Hz			
	pick-up			
	hin ab	min	%Us	80
		max	%Us	110
	drop-out			
		min	%Us	20
		max	%Us	55
	of 50/60Hz coil powered at 60Hz			
	•			
	pick-up			
	•	min	%Us	85
	pick-up	min max	%Us %Us	85 110
	•	max	%Us	110
	pick-up			

# AC average coil consumption at 20°C of 50/60Hz coil powered at 50Hz



THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 32A, AC COIL 50/60HZ, 400VAC

BF3200A400

ENERGY AND AUTOMATION					400VAC
		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			W	2.5	
Max cycles frequency					
Mechanical operation			cycles/h	3600	
Operating times					
Average time for Us c					
	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 motor				
		at 480V	A	27	
		at 600V	A	27	
Yielded mechanical pe					
	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	10	
		460/480V	HP	20	
		575/600V	HP	25	
General USE					
	Contactor				
		AC current	Α	55	
Short-circuit protection					
	High fault				
		Short circuit current	kA	100	
		Fuse rating	А	100	
		Fuse class		J	
	Standard fault				
		Short circuit current	kA	5	
		Fuse rating	А	125	
Ambient conditions					

Ambient conditions Temperature

Operating temperature

-50

BF3200A400

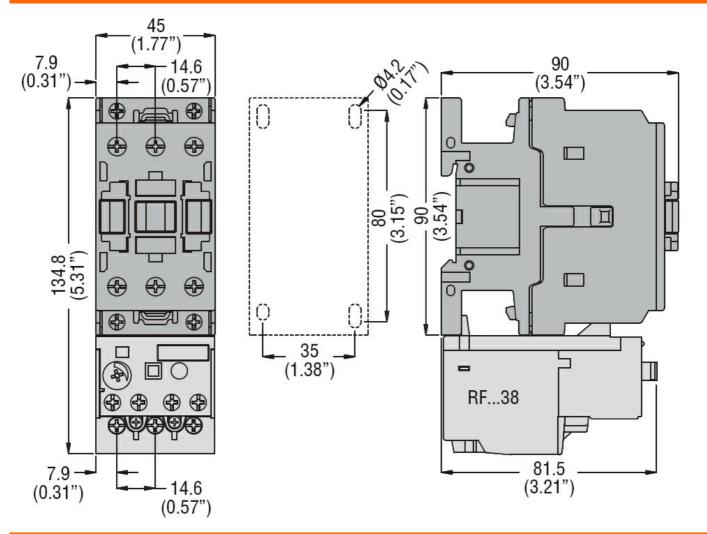


THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 32A, AC COIL 50/60HZ, 400VAC

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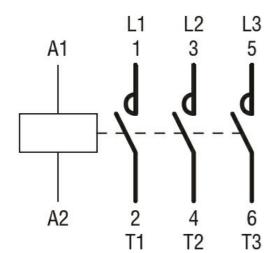
	max	°C	70
Storage temperature			
	min	°C	-60
	max	°C	80
Max altitude		m	3000
Resistance & Protection			
Pollution degree			3

Dimensions



Wiring diagrams





#### Certifications and compliance

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

**ETIM 8.0** 

EC000066 -Power contactor, AC switching





Product designation			Power contactor
Product type designation			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		А	56
Operational current le			
	AC-1 (≤40°C)	А	56
	AC-1 (≤55°C)	А	45
	AC-1 (≤70°C)	А	40
	AC-3 (≤440V ≤55°C)	А	32
	AC-4 (400V)	А	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 $L/R \le 1$ ms with 1 poles in series			
	≤24V	А	30
	48V	А	26
	75V	А	22
	110V	А	8
	220V	Α	_
IEC max current le in DC1 with $L/R \le 1$ ms with 2 poles in series			
	≤24V	Α	32
	48V	А	32
	75V	А	28
	110V	А	25
	220V	А	3
IEC max current le in DC1 with $L/R \le 1$ ms with 3 poles in series			
	≤24V	А	32
	48V	А	32
	75V	А	32
	110V	А	27



	220V	А	23	
IEC max current le in DC1 with $L/R \le 1$ ms with 4 poles in series				
	≤24V	А	-	
	48V	А	-	
	75V	А	-	
	110V	А	-	
	220V	Α	-	
IEC max current le in DC3-DC5 with L/R $\leq$ 15ms with 1 poles in series				
	≤24V	А	20	
	48V	А	17	
	75V	А	15	
	110V	А	2,5	
	220V	Α	-	
IEC max current le in DC3-DC5 with L/R $\leq$ 15ms with 2 poles in series				
	≤24V	А	25	
	48V	А	22	
	75V	А	20	
	110V	А	15	
	220V	Α	3	
IEC max current le in DC3-DC5 with L/R $\leq$ 15ms with 3 poles in series				
	≤24V	А	30	
	48V	А	28	
	75V	А	28	
	110V	А	20	
	220V	Α	23	
IEC max current le in DC3-DC5 with L/R $\leq$ 15ms with 4 poles in series				
	≤24V	А	-	
	48V	А	-	
	75V	А	-	
	110V	А	-	
	220V	A	_	
Short-time allowable current for 10s (IEC/EN60947-1)		Α	320	
Protection fuse				
	gG (IEC)	A	63	
	aM (IEC)	A	32	
Making capacity (RMS value)		Α	320	
Breaking capacity at voltage				
	440V	А	256	
	500V	A	240	
	690V	A	192	
Resistance per pole (average value)		mΩ	2	
Power dissipation per pole (average value)				
	Ith	W	6	
	AC3	W	2	
Tightening torque for terminals				
	min	Nm	2.5	
	max	Nm	3	
	min	Ibin	1.8	
	max	Ibin	2.2	
Tightening torque for coil terminal				
	min	Nm	0.8	
	max	Nm	1	
	min	Ibin	0.8	



	·	max	lbin	0.74
	simultaneously connectable		Nr.	2
Conductor section				
	AWG/Kcmil			0
	Flowible w/a lug conductor conting	max		6
	Flexible w/o lug conductor section	min	mm²	2.5
		max	mm²	16
	Flexible c/w lug conductor section	Пах		10
		min	mm²	1
		max	mm²	10
	Flexible with insulated spade lug conductor section			
		min	mm²	1
		max	mm²	10
Power terminal protec	tion according to IEC/EN 60529			IP20 when
				properly wired
Mechanical features				
Operating position				
		normal		Vertical plan
		allowable		±30° Screw / DIN rail
Fixing				35mm
Weight			g	422
Conductor section			9	722
	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
		nechanical load	cycles	2000000
	ng to IEC/EN 609474-4-1			yes
EMC compatibility				yes
AC coil operating				
Rated AC voltage at 6	OHz		V	24
AC operating voltage	of COLIZ apil newared at COLIZ			
	of 60Hz coil powered at 60Hz pick-up			
	μισκ-αμ	min	%Us	80
		max	%Us	110
	drop-out	max	/000	
		min	%Us	20
		max	%Us	55
AC average coil consi	umption at 20°C			
-	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 operation			cycles/h	3600
Operating times				

**BF3200A02460** The characteristics described in this document are subject to updates or modifications at any time. The descriptions, technical and functional information, illustrations and instructions in this brochure are purely illustrative, and are consequently not contractually binding

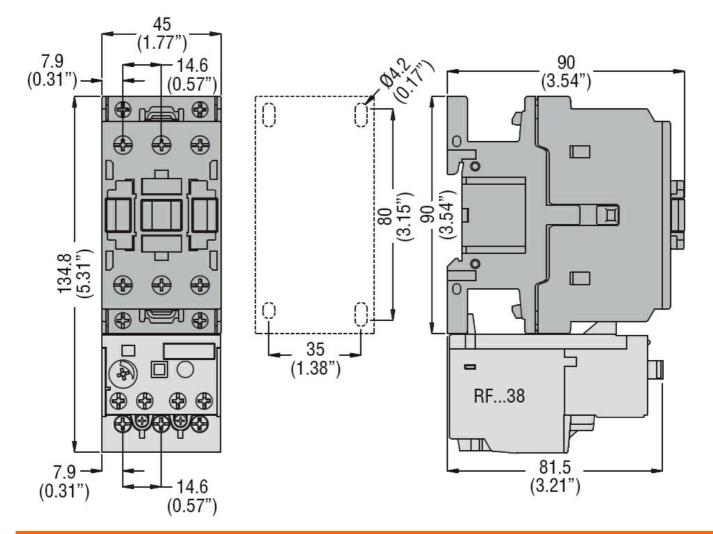


Average time for Us control			
in AC			
Closing N	0		
	min	ms	8
	max	ms	24
Opening N	10		
	min	ms	5
	max	ms	15
Closing N			
	min	ms	9
	max	ms	20
Opening N			
	min	ms	9
	max	ms	17
UL technical data			
Full-load current (FLA) for three-phase AC motor		•	07
	at 480V	A	27
	at 600V	A	27
Yielded mechanical performance			
for single-phase AC motor	440/4001/		0
	110/120V	HP	3
for three phase AC motor	230V	HP	7.5
for three-phase AC motor	200/2081/	ЦΒ	10
	200/208V 220/230V	HP	10
	460/480V	HP HP	10 20
	480/480V 575/600V	HP	20 25
General USE	575/8000		20
Contactor			
Contactor	AC current	А	55
Short-circuit protection fuse, 600V	AC current	~	55
High fault			
T light ladit	Short circuit current	kA	100
	Fuse rating	A	100
	Fuse class	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	J
Standard fault			
	Short circuit current	kA	5
	Fuse rating	A	125
Ambient conditions			
Temperature			
Operating temperature			
	min	°C	-50
	max	°C	70
Storage temperature			
~ ·	min	°C	-60
	max	°C	80
Max altitude		m	3000
Resistance & Protection			
Pollution degree			3
Dimensions			

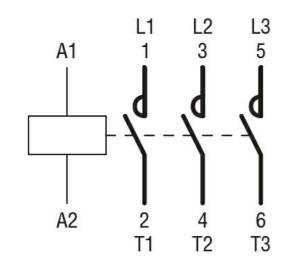
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THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 32A, AC COIL 60HZ, 24VAC



Wiring diagrams



### Certifications and 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		

Compliance



	UL 60947-4-1	
Certificates		
	CCC	
	cULus	
	EAC	
ETIM classificati	on	
		EC000066 -

ETIM 8.0

Power contactor, AC switching





Product designation			Power contactor
Product type designation			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		А	56
Operational current le			
	AC-1 (≤40°C)	А	56
	AC-1 (≤55°C)	А	45
	AC-1 (≤70°C)	А	40
	AC-3 (≤440V ≤55°C)	А	32
	AC-4 (400V)	А	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 $L/R \le 1$ ms with 1 poles in series			
	≤24V	A	30
	48V	A	26
	75V	A	22
	110V	A	8
	220V	A	-
IEC max current le in DC1 with $L/R \le 1$ ms with 2 poles in series			
	≤24V	A	32
	48V	A	32
	75V	A	28
	110V	A	25
	220V	A	3
IEC max current le in DC1 with $L/R \le 1$ ms with 3 poles in series	-0.11		20
	≤24V	A	32
	48V	A	32
	75V	A	32
	110V	А	27



	220V	А	23	
IEC max current le in DC1 with $L/R \le 1$ ms with 4 poles in series				
	≤24V	А	_	
	48V	А	_	
	75V	А	_	
	110V	А	-	
	220V	А	_	
IEC max current le in DC3-DC5 with $L/R \le 15$ ms with 1 poles in series				
	≤24V	А	20	
	48V	А	17	
	75V	А	15	
	110V	А	2,5	
	220V	А	_	
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series				
	≤24V	А	25	
	48V	A	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	220 V	7	5	
TEC max current le in DC5-DC5 with L/K = 15ms with 5 poles in series	≤24V	۸	30	
	≤24V 48V	A A	30 28	
	75V	A	28	
	110V	A	20	
	220V	A	23	
IEC max current le in DC3-DC5 with L/R $\leq$ 15ms with 4 poles in series				
	≤24V	A	-	
	48V	A	-	
	75V	Α	_	
	110V	Α	_	
	220V	A	_	
Short-time allowable current for 10s (IEC/EN60947-1)		Α	320	
Protection fuse				
	gG (IEC)	А	63	
	aM (IEC)	Α	32	
Making capacity (RMS value)		Α	320	
Breaking capacity at voltage				
	440V	А	256	
	500V	А	240	
	690V	А	192	
Resistance per pole (average value)		mΩ	2	
Power dissipation per pole (average value)				
	lth	W	6	
	AC3	W	2	
Tightening torque for terminals				
	min	Nm	2.5	
	max	Nm	3	
	min	Ibin	1.8	
	max	Ibin	2.2	
Tightening torque for coil terminal	Παλ		2.2	
		Nime	0.9	
	min	Nm	0.8 1	
	max	Nm	1	
	min	lbin	0.8	



Moy pumber of wire-		max	lbin Nr	0.74
	simultaneously connectable		Nr.	2
Conductor section	AWG/Kcmil			
	Awg/Kcmii	max		6
	Flexible w/o lug conductor section	Παλ		0
		min	mm²	2.5
		max	mm²	16
	Flexible c/w lug conductor section			
		min	mm²	1
		max	mm²	10
	Flexible with insulated spade lug conductor section	l		
		min	mm²	1
		max	mm²	10
Power terminal protect	ction according to IEC/EN 60529			IP20 when
·				properly wired
Mechanical features				
Operating position		normal		Vortical plan
		normal allowable		Vertical plan ±30°
		allowable		Screw / DIN rai
Fixing				35mm
Weight			g	420
Conductor section				
	AWG/kcmil conductor section			
		max		6
Operations				
Mechanical life			cycles	2000000
Electrical life			cycles	1600000
Safety related data				
Performance level B1	10d according to EN/ISO 13489-1			
		rated load	cycles	1600000
		nechanical load	cycles	2000000
	ling to IEC/EN 609474-4-1			yes
EMC compatibility				yes
AC coil operating	20H7		V	49
Rated AC voltage at 6 AC operating voltage			V	48
	of 60Hz coil powered at 60Hz			
	pick-up			
	how ab	min	%Us	80
		max	%Us	110
	drop-out			
		min	%Us	20
		max	%Us	55
AC average coil cons	sumption at 20°C			
	of 60Hz coil powered at 60Hz			
		in-rush	VA	75
		holding	VA	9
Dissipation at holding			W	2.5
Max cycles frequency				
Mechanical operation			cycles/h	3600
Operating times				

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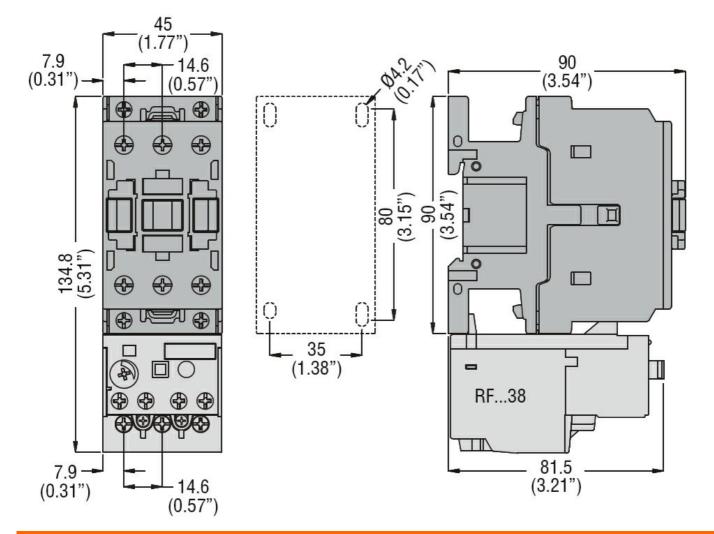
48VAC

Average time for Us control			
in AC			
Closing NO	min	me	8
	max	ms ms	24
Opening NO		1115	24
	min	ms	5
	max	ms	15
Closing NC	max	mo	10
	min	ms	9
	max	ms	20
Opening NC		me	20
opolingro	min	ms	9
	max	ms	17
UL technical data			
Full-load current (FLA) for three-phase AC motor			
· · · · · · · · · · · · · · · · · · ·	at 480V	А	27
	at 600V	A	27
Yielded mechanical 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	10
	460/480V	HP	20
	575/600V	HP	25
General USE			
Contactor			
	AC current	А	55
Short-circuit protection fuse, 600V			
High fault			
Ũ	Short circuit current	kA	100
	Fuse rating	А	100
	Fuse class		J
Standard fault			
	Short circuit current	kA	5
	Fuse rating	А	125
Ambient conditions			
Temperature			
Operating temperature			
	min	°C	-50
	max	°C	70
Storage temperature			
	min	°C	-60
	max	°C	80
Max altitude		m	3000
Resistance & Protection			
Pollution degree			3
Dimensions			

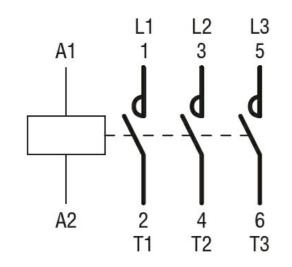
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THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 32A, AC COIL 60HZ, 48VAC



Wiring diagrams



### Certifications and 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		

Compliance



	UL 60947-4-1	
Certificates		
	CCC	
	cULus	
	EAC	
ETIM classificati	on	
		EC000066 -

ETIM 8.0

Power contactor, AC switching





Product designation			Power contactor BF32
Product type designation Contact characteristics			DF32
Number of poles		Nr.	3
Rated insulation voltage Ui IEC/EN		V	690
Rated impulse withstand voltage Uimp		kV	6
Operational frequency		ΚV	0
Operational frequency	min	Hz	25
	max	Hz	400
IEC Conventional free air thermal current Ith	max	A	56
Operational current le		7.	00
	AC-1 (≤40°C)	А	56
	AC-1 (≤55°C)	A	45
	AC-1 (≤70°C)	A	40
	AC-3 (≤440V ≤55°C)	A	32
	AC-4 (400V)	A	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 $L/R \le 1$ ms with 1 poles in series			
	≤24V	А	30
	48V	А	26
	75V	А	22
	110V	А	8
	220V	Α	_
IEC max current le in DC1 with L/R $\leq$ 1ms with 2 poles in series			
	≤24V	А	32
	48V	А	32
	75V	А	28
	110V	А	25
	220V	A	3
IEC max current le in DC1 with $L/R \le 1$ ms with 3 poles in series			
	≤24V	A	32
	48V	А	32
	75V	А	32
	110V	А	27



	220V	А	23	
IEC max current le in DC1 with $L/R \le 1$ ms with 4 poles in series				
	≤24V	А	-	
	48V	А	-	
	75V	А	_	
	110V	А	_	
	220V	А	-	
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series				
	≤24V	А	20	
	48V	А	17	
	75V	А	15	
	110V	А	2,5	
	220V	А	_	
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series				
	≤24V	А	25	
	48V	A	22	
	75V	A	20	
	110V	A	15	
	220V	A	3	
IEC max current le in DC3-DC5 with L/R $\leq$ 15ms with 3 poles in series	2201	Λ	5	
	≤24V	А	30	
	≤24V 48V	A		
	40V 75V		28	
		A	28	
	110V	A	20	
	220V	A	23	
IEC max current le in DC3-DC5 with L/R $\leq$ 15ms with 4 poles in series		_		
	≤24V	A	-	
	48V	A	_	
	75V	A	_	
	110V	A	_	
	220V	A	-	
Short-time allowable current for 10s (IEC/EN60947-1)		Α	320	
Protection fuse				
	gG (IEC)	А	63	
	aM (IEC)	А	32	
Making capacity (RMS value)		А	320	
Breaking capacity at voltage				
· · ·	440V	А	256	
	500V	А	240	
	690V	А	192	
Resistance per pole (average value)		mΩ	2	
Power dissipation per pole (average value)				
	lth	W	6	
	AC3	Ŵ	2	
Tightening torque for terminals	/////	• •	-	
	min	Nm	2.5	
	max	Nm	2.5 3	
	min	Ibin	3 1.8	
Tightoning targue for soil terminal	max	lbin	2.2	
Tightening torque for coil terminal		<b>N</b> 1.	0.0	
	min	Nm	0.8	
	max	Nm	1	
	min	Ibin	0.8	



Max number of wires	simultaneously connectable	max	Ibin Nr.	0.74
Conductor section			111.	<u> </u>
	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
		max	mm²	10
	Flexible with insulated spade lug conductor section		mm²	1
		min max	mm²	10
		IIIdx		IP20 when
Power terminal protect	ction according to IEC/EN 60529			properly wired
Mechanical features				
Operating position				
		normal		Vertical plan
		allowable		±30°
Fixing				Screw / DIN rai 35mm
Weight			g	420
Conductor section			-	
	AWG/kcmil conductor section			
		max		6
Operations				
Mechanical life			cycles	2000000
Electrical life			cycles	1600000
Safety related data				
Performance level Bi	0d according to EN/ISO 13489-1	roted load	avalaa	160000
		rated load	cycles cycles	1600000 20000000
Mirror contats accord	ing to IEC/EN 609474-4-1	nechanicai luau	Cycles	yes
EMC compatibility				yes
AC coil operating				yes
Rated AC voltage at 6	60Hz		V	120
AC operating voltage				
	of 60Hz coil powered at 60Hz			
	pick-up			
		min	%Us	80
		max	%Us	110
	drop-out		0/11	00
		min	%Us	20
	umption at 20°C	max	%Us	55
AC average coil cons	of 60Hz coil powered at 60Hz			
		in-rush	VA	75
		holding	VA VA	9
	≤20°C 50Hz	nording	W	2.5
Dissipation at holding			••	
Dissipation at holding Max cycles frequency	/			
Dissipation at holding Max cycles frequency Mechanical operation			cycles/h	3600



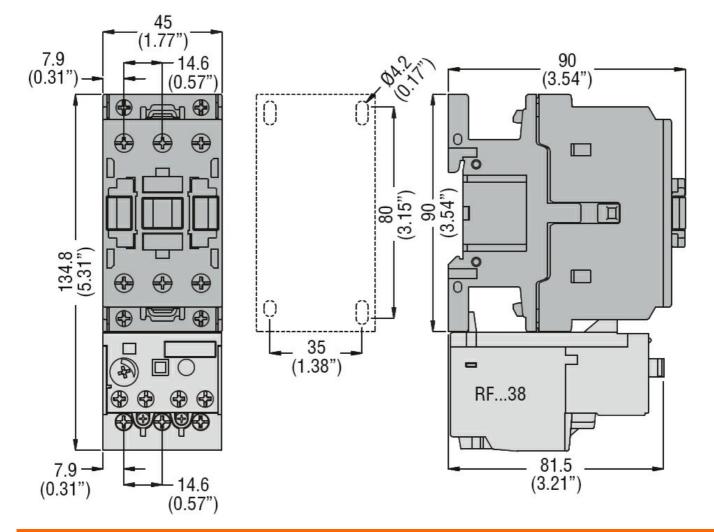
120VAC

Average time for Us of	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 (FLA	) for three-phase AC motor			07
		at 480V	A	27
<u></u>		at 600V	Α	27
Yielded mechanical p				
	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	10
		460/480V	HP	20
		575/600V	HP	25
General USE				
	Contactor			
0	6000/	AC current	A	55
Short-circuit protectio				
	High fault			(
		Short circuit current	kA	100
		Fuse rating	A	100
	Oten dend fault	Fuse class		J
	Standard fault	Obert einen it ennen st	1. 4	r
		Short circuit current	kA ^	5
Ambient conditions		Fuse rating	A	125
Ambient conditions				
Temperature	Operating topparature			
	Operating temperature		°C	50
		min	С О°	-50 70
	Storago tomporaturo	max	U	10
	Storage temperature	min	°C	-60
		min	С О°	-60 80
Max altitude		max		
Resistance & Protect	ion		m	3000
				3
Pollution degree Dimensions				J
Dimensions				

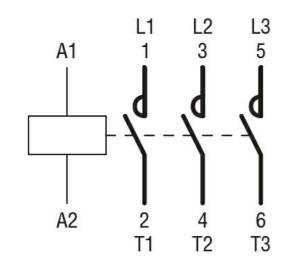
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THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 32A, AC COIL 60HZ, 120VAC



Wiring diagrams



## Certifications and 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		

Compliance



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

ETIM 8.0

Power contactor, AC switching





Product designation Product type designation			Power contactor BF32
Contact characteristics			DI 52
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		А	56
Operational current le			
	AC-1 (≤40°C)	А	56
	AC-1 (≤55°C)	А	45
	AC-1 (≤70°C)	А	40
	AC-3 (≤440V ≤55°C)	А	32
	AC-4 (400V)	А	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 $L/R \le 1$ ms with 1 poles in series			
	≤24V	А	30
	48V	А	26
	75V	А	22
	110V	А	8
	220V	Α	_
IEC max current le in DC1 with $L/R \le 1$ ms with 2 poles in series			
	≤24V	А	32
	48V	А	32
	75V	А	28
	110V	А	25
	220V	Α	3
IEC max current le in DC1 with $L/R \le 1$ ms with 3 poles in series			
	≤24V	А	32
	48V	А	32
	75V	А	32
	110V	А	27



	220V	Α	23	
IEC max current le in DC1 with $L/R \le 1$ ms with 4 poles in series				
	≤24V	А	_	
	48V	А	_	
	75V	А	_	
	110V	A	_	
	220V	A	_	
IEC may aurrent to in DC2 DC5 with L/P < 15mg with 1 palas in agrice	220 V	~	_	
IEC max current le in DC3-DC5 with $L/R \le 15$ ms with 1 poles in series	-0.0.4			
	≤24V	A	20	
	48V	A	17	
	75V	А	15	
	110V	Α	2,5	
	220V	Α	-	
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series				
·	≤24V	А	25	
	48V	A	22	
	48V 75V	A	20	
	110V			
		A	15	
	220V	A	3	
IEC max current le in DC3-DC5 with L/R $\leq$ 15ms with 3 poles in series				
	≤24V	А	30	
	48V	Α	28	
	75V	А	28	
	110V	А	20	
	220V	A	23	
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series	2201		20	
	≤24V	۸		
		A	-	
	48V	A	-	
	75V	A	—	
	110V	Α	-	
	220V	Α	_	
Short-time allowable current for 10s (IEC/EN60947-1)		Α	320	
Protection fuse				
	gG (IEC)	А	63	
	aM (IEC)	A	32	
Making capacity (RMS value)		A	320	
		А	320	
Breaking capacity at voltage		_		
	440V	A	256	
	500V	А	240	
	690V	А	192	
Resistance per pole (average value)		mΩ	2	
Power dissipation per pole (average value)				
	lth	W	6	
	AC3	W	2	
Tichtoning torque for terminals	AUS	٧V	۷	
Tightening torque for terminals			• -	
	min	Nm	2.5	
	max	Nm	3	
	min	lbin	1.8	
	max	lbin	2.2	
Tightening torque for coil terminal				
	min	Nm	0.8	
	max	Nm	1	
	min	Ibin	0.8	



Max number of wires	simultanoously connectable	max	lbin Nr	0.74
	simultaneously connectable		Nr.	2
Conductor section	AWG/Kcmil			
	Awg/Kcmii	may		6
	Flexible w/o lug conductor section	max		0
		min	mm²	2.5
		max	mm²	16
	Flexible c/w lug conductor section			
	ů –	min	mm²	1
		max	mm²	10
	Flexible with insulated spade lug conductor section			
		min	mm²	1
		max	mm²	10
Power terminal prote	ction according to IEC/EN 60529			IP20 when
Mechanical features				properly wired
Operating position				
Sporading position		normal		Vertical plan
		allowable		±30°
				Screw / DIN rail
Fixing				35mm
Weight			g	422
Conductor section				
	AWG/kcmil conductor section			
		max		6
Operations				
Mechanical life			cycles	2000000
Electrical life Safety related data			cycles	1600000
	10d according to EN/ISO 13489-1			
		مما اممه	ovoloo	
		raten inan		1600000
	me	rated load	cycles cycles	1600000 20000000
Mirror contats accord		chanical load	cycles	20000000
	mee ling to IEC/EN 609474-4-1		•	20000000 yes
Mirror contats accord EMC compatibility AC coil operating			•	20000000
EMC compatibility	ling to IEC/EN 609474-4-1		•	20000000 yes
EMC compatibility AC coil operating	ling to IEC/EN 609474-4-1 60Hz		cycles	20000000 yes yes
EMC compatibility AC coil operating Rated AC voltage at (	60Hz of 60Hz coil powered at 60Hz		cycles	20000000 yes yes
EMC compatibility AC coil operating Rated AC voltage at (	ling to IEC/EN 609474-4-1 60Hz	chanical load	V	20000000 yes yes 220
EMC compatibility AC coil operating Rated AC voltage at (	60Hz of 60Hz coil powered at 60Hz	chanical load	V V %Us	20000000 yes yes 220 80
EMC compatibility AC coil operating Rated AC voltage at (	ling to IEC/EN 609474-4-1 60Hz of 60Hz coil powered at 60Hz pick-up	chanical load	V	20000000 yes yes 220
EMC compatibility AC coil operating Rated AC voltage at (	60Hz of 60Hz coil powered at 60Hz	chanical load min max	V V %Us %Us	20000000 yes yes 220 80 110
EMC compatibility AC coil operating Rated AC voltage at (	ling to IEC/EN 609474-4-1 60Hz of 60Hz coil powered at 60Hz pick-up	min max min	V V %Us %Us %Us	20000000 yes yes 220 80 110 20
EMC compatibility AC coil operating Rated AC voltage at ( AC operating voltage	ling to IEC/EN 609474-4-1 60Hz of 60Hz coil powered at 60Hz pick-up drop-out	chanical load min max	V V %Us %Us	20000000 yes yes 220 80 110
EMC compatibility AC coil operating Rated AC voltage at (	60Hz of 60Hz coil powered at 60Hz pick-up drop-out	min max min	V V %Us %Us %Us	20000000 yes yes 220 80 110 20
EMC compatibility AC coil operating Rated AC voltage at ( AC operating voltage	ling to IEC/EN 609474-4-1 60Hz of 60Hz coil powered at 60Hz pick-up drop-out	min max min max	V V %Us %Us %Us %Us	20000000 yes yes 220 80 110 20 55
EMC compatibility AC coil operating Rated AC voltage at ( AC operating voltage	60Hz of 60Hz coil powered at 60Hz pick-up drop-out	min max min max min max	v v v v v v v v v v v v v v v v v v v	20000000 yes yes 220 80 110 20 55 75
EMC compatibility AC coil operating Rated AC voltage at ( AC operating voltage	60Hz of 60Hz coil powered at 60Hz pick-up drop-out sumption at 20°C of 60Hz coil powered at 60Hz	min max min max	V V %Us %Us %Us %Us	20000000 yes yes 220 80 110 20 55
EMC compatibility AC coil operating Rated AC voltage at ( AC operating voltage	ling to IEC/EN 609474-4-1 60Hz of 60Hz coil powered at 60Hz pick-up drop-out sumption at 20°C of 60Hz coil powered at 60Hz	min max min max min max	v v v v v v v v v v v s v v s v v v v v	20000000 yes yes 220 80 110 20 55 75 9
EMC compatibility AC coil operating Rated AC voltage at 6 AC operating voltage AC average coil cons Dissipation at holding	ling to IEC/EN 609474-4-1 60Hz of 60Hz coil powered at 60Hz pick-up drop-out sumption at 20°C of 60Hz coil powered at 60Hz g ≤20°C 50Hz	min max min max min max	v v v v v v v v v v v s v v s v v v v v	20000000 yes yes 220 80 110 20 55 75 9 2.5

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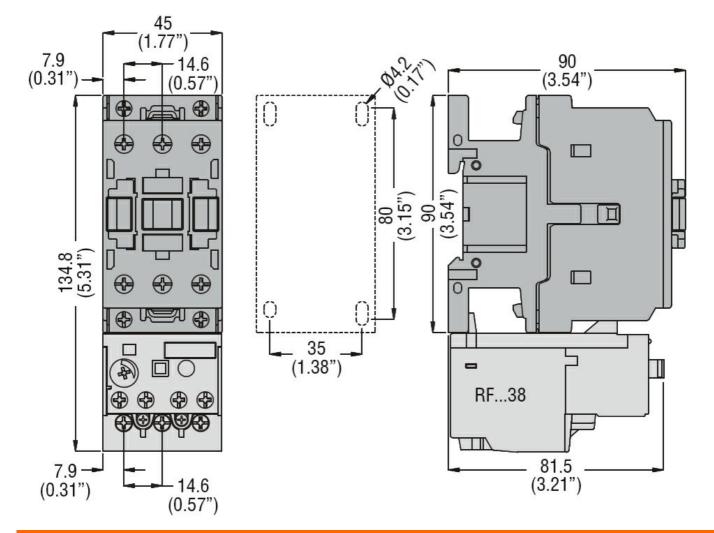


Average time for Us c	ontrol				
	in AC				
	Closir	ng NO			
			min	ms	8
			max	ms	24
	Open	ing NO			_
			min	ms	5
			max	ms	15
	Closir	ng NC	min	ma	0
			min max	ms ms	9 20
	Open	ing NC	max	1113	20
	opon	ing ito	min	ms	9
			max	ms	17
UL technical data					
	) for three-phase AC motor				
			at 480V	А	27
			at 600V	Α	27
Yielded mechanical p					
	for single-phase AC motor				
			110/120V	HP	3
			230V	HP	7.5
	for three-phase AC motor		000/0001/		10
			200/208V	HP	10
			220/230V 460/480V	HP HP	10 20
			400/480V 575/600V	HP	20 25
General USE			575/0007		25
	Contactor				
			AC current	А	55
Short-circuit protection	n fuse, 600V				
·	High fault				
	C		Short circuit current	kA	100
			Fuse rating	А	100
			Fuse class		J
	Standard fault				
			Short circuit current	kA	5
And his of the second s			Fuse rating	А	125
Ambient conditions					
Temperature	Operating temperature				
	Operating temperature		min	°C	-50
			max	°C	70
	Storage temperature		Παλ	0	
			min	°C	-60
			max	°Č	80
Max altitude				m	3000
Resistance & Protecti	on				
Pollution degree					3
Dimensions					

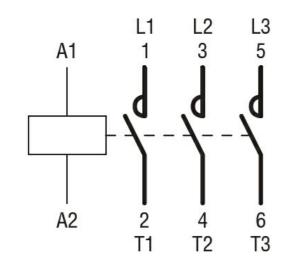
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THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 32A, AC COIL 60HZ, 220VAC



Wiring diagrams



## Certifications and compliance

Compliance



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

ETIM 8.0

Power contactor, AC switching





Product designation Product type designation			Power contactor BF32
Contact characteristics			51 02
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		А	56
Operational current le			
	AC-1 (≤40°C)	А	56
	AC-1 (≤55°C)	А	45
	AC-1 (≤70°C)	А	40
	AC-3 (≤440V ≤55°C)	А	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 $L/R \le 1$ ms with 1 poles in series	-0.434		
	≤24V	A	30
	48V	A	26
	75V	A	22
	110V	A	8
$\frac{1}{100}$ max current lo in DC1 with $\frac{1}{100}$ < 1 me with 2 poles in corrise	220V	A	_
IEC max current le in DC1 with $L/R \le 1$ ms with 2 poles in series	<241/	۸	22
	≤24V 48V	A A	32 32
	48V 75V	A	28
	110V	A	25
	220V	A	3
IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series	2201	~	0
	≤24V	А	32
	48V	A	32
	48V 75V	A	32
	110V	A	27
	1100	~~	_,



	220V	А	23	
IEC max current le in DC1 with $L/R \le 1$ ms with 4 poles in series				
	≤24V	А	-	
	48V	А	-	
	75V	А	-	
	110V	А	-	
	220V	Α	-	
IEC max current le in DC3-DC5 with $L/R \le 15$ ms with 1 poles in series				
	≤24V	А	20	
	48V	А	17	
	75V	А	15	
	110V	А	2,5	
	220V	А	-	
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series				
·	≤24V	А	25	
	48V	A	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	220 V	~	5	
	≤24V	А	30	
	≤24∨ 48V			
		A	28	
	75V	A	28	
	110V	A	20	
	220V	A	23	
IEC max current le in DC3-DC5 with L/R $\leq$ 15ms with 4 poles in series				
	≤24V	A	-	
	48V	А	-	
	75V	А	-	
	110V	А	-	
	220V	A	-	
Short-time allowable current for 10s (IEC/EN60947-1)		Α	320	
Protection fuse				
	gG (IEC)	А	63	
	aM (IEC)	А	32	
Making capacity (RMS value)		А	320	
Breaking capacity at voltage				
	440V	А	256	
	500V	A	240	
	690V	A	192	
Resistance per pole (average value)		mΩ	2	
Power dissipation per pole (average value)		22111	-	
	lth	W	6	
	AC3	W	2	
Tightening torque for terminals	A03	٧V	۲	
		Nime	0 F	
	min	Nm Nm	2.5	
	max	Nm	3	
	min	lbin Ibin	1.8	
	max	lbin	2.2	
Tightening torque for coil terminal				
	min	Nm	0.8	
	max	Nm	1	
	min	lbin	0.8	



Max number of wires	simultaneously connectable	max	lbin Nr.	0.74
Conductor section	Simulaneously connectable		INI.	۷
	AWG/Kcmil			
		max		6
	Flexible w/o lug conductor section	max		0
		min	mm²	2.5
		max	mm²	16
	Flexible c/w lug conductor section			
		min	mm²	1
		max	mm²	10
	Flexible with insulated spade lug conductor section			
		min	mm²	1
		max	mm²	10
Power terminal prote	ction according to IEC/EN 60529			IP20 when properly wired
Mechanical features				property miled
Operating position				
		normal		Vertical plan
		allowable		±30°
Fixing				Screw / DIN rai 35mm
Weight			g	422
Conductor section				
	AWG/kcmil conductor section			
		max		6
Operations				
Mechanical life			cycles	2000000
Electrical life			cycles	1600000
Safety related data	40 Losson Francis EN//00 40400 4			
Performance level B	10d according to EN/ISO 13489-1	معمد ما المعط		400000
	m	rated load echanical load	cycles	1600000 20000000
Mirror contate accord	ling to IEC/EN 609474-4-1		cycles	yes
EMC compatibility				yes
AC coil operating				yes
Rated AC voltage at	60Hz		V	230
AC operating voltage				
	of 60Hz coil powered at 60Hz			
	pick-up			
		min	%Us	80
		max	%Us	110
	drop-out			
		min	%Us	20
10	1	max	%Us	55
AC average coil cons				
	of 60Hz coil powered at 60Hz	in work	1/4	75
		in-rush holding	VA VA	75 9
Dissipation at holding	1 <20°C 50Hz	noiuing	W	9 2.5
Max cycles frequency			vv	2.0
Mechanical operation			cycles/h	3600
			5,5100/11	2000

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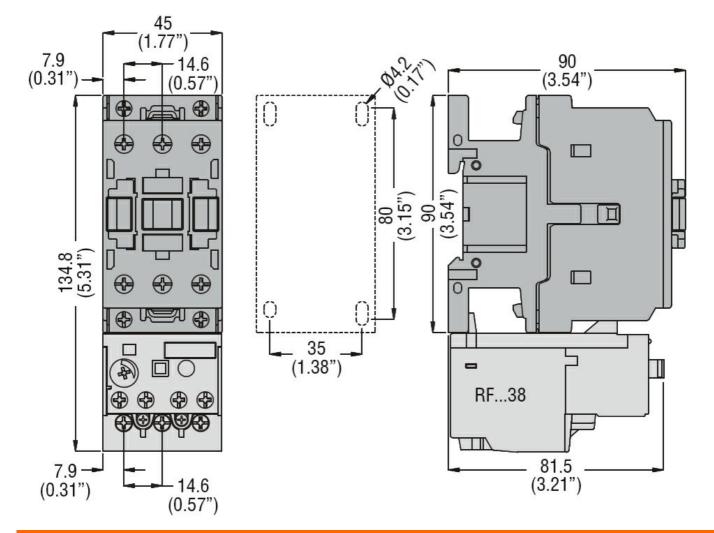


Average time for Us co	ontrol			
5	in AC			
	Closin	ig NO		
		min	ms	8
		max	ms	24
	Openi	ng NO		
		min	ms	5
		max	ms	15
	Closin	-		
		min	ms	9
		max	ms	20
	Openi	-		0
		min	ms	9
		max	ms	17
UL technical data	for three phase AC motor			
Full-load current (FLA,	for three-phase AC motor	at 4901/	۸	27
		at 480V	A	27 27
Yielded mechanical pe	vrformanco	at 600V	A	27
neided mechanical pe	for single-phase AC motor			
	for single-phase AC motor	110/120V	HP	3
		230V	HP	7.5
	for three-phase AC motor	2007		1.5
	for three phase Ao motor	200/208V	HP	10
		220/230V	HP	10
		460/480V	HP	20
		575/600V	HP	25
General USE				
	Contactor			
		AC current	А	55
Short-circuit protection	n fuse, 600V			
	High fault			
	5	Short circuit current	kA	100
		Fuse rating	Α	100
		Fuse class		J
	Standard fault			
		Short circuit current	kA	5
		Fuse rating	А	125
Ambient conditions				
Temperature				
	Operating temperature			
		min	°C	-50
	Otomo no tomo cust	max	°C	70
	Storage temperature		•	60
		min	°C °C	-60
Max altitude		max	°C	80
Resistance & Protection			m	3000
Pollution degree				3
Dimensions				5
Binensions				

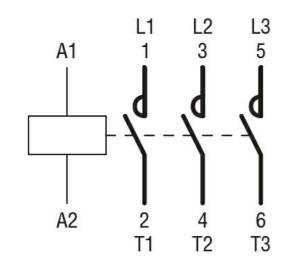
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THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 32A, AC COIL 60HZ, 230VAC



Wiring diagrams



## Certifications and compliance

CSA C22.2 n° 60947-1		
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		

Compliance

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

ETIM 8.0

Power contactor, AC switching





Product designation Product type designation			Power contactor BF32
Contact characteristics			DI 32
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		A	56
Operational current le			
	AC-1 (≤40°C)	А	56
	AC-1 (≤55°C)	А	45
	AC-1 (≤70°C)	А	40
	AC-3 (≤440V ≤55°C)	А	32
	AC-4 (400V)	А	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 $L/R \le 1$ ms with 1 poles in series			
	≤24V	А	30
	48V	А	26
	75V	А	22
	110V	А	8
	220V	Α	_
IEC max current le in DC1 with $L/R \le 1$ ms with 2 poles in series			
	≤24V	A	32
	48V	A	32
	75V	A	28
	110V	A	25
	220V	A	3
IEC max current le in DC1 with $L/R \le 1$ ms with 3 poles in series			
	≤24V	A	32
	48V	A	32
	75V	A	32
	110V	А	27



	220V	А	23	
IEC max current le in DC1 with $L/R \le 1$ ms with 4 poles in series				
	≤24V	А	_	
	48V	А	_	
	75V	А	_	
	110V	А	-	
	220V	А	_	
IEC max current le in DC3-DC5 with $L/R \le 15$ ms with 1 poles in series				
	≤24V	А	20	
	48V	А	17	
	75V	А	15	
	110V	А	2,5	
	220V	А	_	
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series				
	≤24V	А	25	
	48V	A	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	220 V	7	5	
TEC max current le in DC5-DC5 with L/K = 15ms with 5 poles in series	≤24V	۸	30	
	≤24V 48V	A A	30 28	
	75V	A	28	
	110V	A	20	
	220V	A	23	
IEC max current le in DC3-DC5 with L/R $\leq$ 15ms with 4 poles in series				
	≤24V	A	-	
	48V	A	-	
	75V	Α	_	
	110V	Α	_	
	220V	A	_	
Short-time allowable current for 10s (IEC/EN60947-1)		Α	320	
Protection fuse				
	gG (IEC)	А	63	
	aM (IEC)	Α	32	
Making capacity (RMS value)		Α	320	
Breaking capacity at voltage				
	440V	А	256	
	500V	А	240	
	690V	А	192	
Resistance per pole (average value)		mΩ	2	
Power dissipation per pole (average value)				
	lth	W	6	
	AC3	W	2	
Tightening torque for terminals				
	min	Nm	2.5	
	max	Nm	3	
	min	Ibin	1.8	
	max	Ibin	2.2	
Tightening torque for coil terminal	Παλ		2.2	
		Nime	0.9	
	min	Nm	0.8 1	
	max	Nm	1	
	min	lbin	0.8	



Max number of wires	simultaneously connectable	max	lbin Nr.	0.74
Conductor section	simultaneously connectable		INF.	2
Conductor Section	AWG/Kcmil			
	AWG/Rellin	max		6
	Flexible w/o lug conductor section	max		0
		min	mm²	2.5
		max	mm²	16
	Flexible c/w lug conductor section			
		min	mm²	1
		max	mm²	10
	Flexible with insulated spade lug conductor section	1		
		min	mm²	1
		max	mm²	10
Power terminal protect	ction according to IEC/EN 60529			IP20 when
Mechanical features				properly wired
Operating position				
operating position		normal		Vertical plan
		allowable		±30°
Fixing				Screw / DIN rail
Fixing				35mm
Weight			g	422
Conductor section				
	AWG/kcmil conductor section			_
		max		6
Operations			ovelee.	2000000
Mechanical life Electrical life			cycles cycles	20000000 1600000
Safety related data			cycles	1600000
	0d according to EN/ISO 13489-1			
		rated load	cycles	1600000
	r	nechanical load	cycles	20000000
Mirror contats accord	ing to IEC/EN 609474-4-1		- ,	yes
EMC compatibility	<u> </u>			yes
AC coil operating				
Rated AC voltage at 6	60Hz		V	460
AC operating voltage				
	of 60Hz coil powered at 60Hz			
	pick-up			
		min	%Us	80
	dran aut	max	%Us	110
	drop-out	min	%Us	20
		max	%Us	20 55
AC average coil cons	umption at 20°C	max	,	
	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 operation			cycles/h	3600
Operating times				

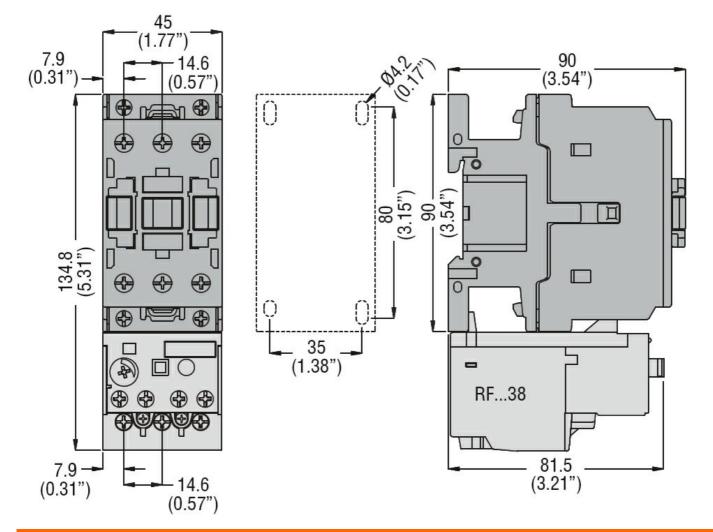


Average time for Us c	control			
	in AC			
	Closing NO			
		min	ms	8
		max	ms	24
	Opening NO			_
		min	ms	5
		max	ms	15
	Closing NC	min	ms	9
		max	ms	20
	Opening NC	max	mo	20
	epermignee	min	ms	9
		max	ms	17
UL technical data				
Full-load current (FLA	) for three-phase AC motor			
		at 480V	А	27
		at 600V	Α	27
Yielded mechanical p				
	for single-phase AC motor			
		110/120V	HP	3
		230V	HP	7.5
	for three-phase AC motor	000/0001/		4.0
		200/208V	HP	10
		220/230V 460/480V	HP HP	10 20
		575/600V	HP	25
General USE		510/0001		20
	Contactor			
		AC current	А	55
Short-circuit protectio	n fuse, 600V			
·	High fault			
		Short circuit current	kA	100
		Fuse rating	А	100
		Fuse class		J
	Standard fault	<b>.</b>		_
		Short circuit current	kA	5
Ambient conditions		Fuse rating	A	125
Ambient conditions Temperature				
remperature	Operating temperature			
		min	°C	-50
		max	°C	70
	Storage temperature		-	-
		min	°C	-60
		max	°C	80
Max altitude			m	3000
Resistance & Protect	ion			
Pollution degree				3
Dimensions				

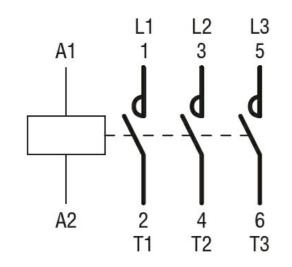
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THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 32A, AC COIL 60HZ, 460VAC



Wiring diagrams



## Certifications and 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		

Compliance



	UL 60947-4-1	
Certificates		
	CCC	
	cULus	
	EAC	
ETIM classificati	on	
		EC000066 -

ETIM 8.0

Power contactor, AC switching





Product designation Product type designation			Power contactor BF32
Contact characteristics			BI 32
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)	А	56
	AC-1 (≤55°C)	А	45
	AC-1 (≤70°C)	А	40
	AC-3 (≤440V ≤55°C)	А	32
	AC-4 (400V)	А	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 $L/R \le 1$ ms with 1 poles in series			
	≤24V	Α	30
	48V	А	26
	75V	А	22
	110V	А	8
	220V	A	_
IEC max current le in DC1 with $L/R \le 1$ ms with 2 poles in series			
	≤24V	A	32
	48V	A	32
	75V	A	28
	110V	Α	25
	220V	A	3
IEC max current le in DC1 with $L/R \le 1$ ms with 3 poles in series			
	≤24V	Α	32
	48V	Α	32
	75V	Α	32
	110V	А	27



	220V	А	23	
IEC max current le in DC1 with $L/R \le 1$ ms with 4 poles in series				
	≤24V	А	_	
	48V	A	_	
	75V	A	_	
	110V	A		
	220V	A	_	
	2200	A	-	
IEC max current le in DC3-DC5 with L/R $\leq$ 15ms with 1 poles in series				
	≤24V	A	20	
	48V	А	17	
	75V	А	15	
	110V	Α	2,5	
	220V	А	_	
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series				
	≤24V	А	25	
	48V	А	22	
	75V	A	20	
	110V	A	15	
	220V			
	2201	A	3	
IEC max current le in DC3-DC5 with L/R $\leq$ 15ms with 3 poles in series		-		
	≤24V	А	30	
	48V	Α	28	
	75V	Α	28	
	110V	А	20	
	220V	А	23	
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series				
·	≤24V	А	_	
	48V	A	_	
	75V	A	_	
	110V	A	_	
	220V	A	_	
	2200			
Short-time allowable current for 10s (IEC/EN60947-1)		А	320	
Protection fuse				
	gG (IEC)	Α	63	
	aM (IEC)	Α	32	
Making capacity (RMS value)		А	320	
Breaking capacity at voltage				
	440V	А	256	
	500V	A	240	
	690V	A	192	
Resistance per pole (average value)	0001	mΩ	2	
Power dissipation per pole (average value)		11122	2	
r uwei uissipaliuti pei pule (average value)	141-	14/	C	
	Ith	W	6	
	AC3	W	2	
Tightening torque for terminals				
	min	Nm	2.5	
	max	Nm	3	
	min	lbin	1.8	
	max	Ibin	2.2	
Tightening torque for coil terminal				
	min	Nm	0.8	
	max	Nm	1	
	min	Ibin	0.8	



Max number of wires	simultaneously connectable	max	Ibin Nr.	0.74
Conductor section	simulateously connectable		INI.	Z
Conductor Section	AWG/Kcmil			
	AWO/Remin	max		6
	Flexible w/o lug conductor section	max		0
		min	mm²	2.5
		max	mm²	16
	Flexible c/w lug conductor section			
		min	mm²	1
		max	mm²	10
	Flexible with insulated spade lug conductor section			
		min	mm²	1
		max	mm²	10
Power terminal prote	ction according to IEC/EN 60529			IP20 when
	5			properly wired
Mechanical features Operating position				
operating position		normal		Vertical plan
		allowable		±30°
				Screw / DIN rail
Fixing				35mm
Weight			g	414
Conductor section				
	AWG/kcmil conductor section			
		max		6
Operations				
Mechanical life			cycles	2000000
Electrical life			cycles	1600000
Safety related data				
Performance level B	10d according to EN/ISO 13489-1			400000
		rated load	cycles	1600000
		nechanical load	cycles	20000000
EMC compatibility	ling to IEC/EN 609474-4-1			yes
AC coil operating				yes
Rated AC voltage at 6	80Hz		V	575
AC operating voltage			v	575
no operating voltage	of 60Hz coil powered at 60Hz			
	pick-up			
	L.2 2L	min	%Us	80
		max	%Us	110
	drop-out			
		min	%Us	20
		max	%Us	55
AC average coil cons	•			
	of 60Hz coil powered at 60Hz			
		in-rush	VA	75
		holding	VA	9
Dissipation at holding			W	2.5
Dissipation at holding Max cycles frequency Mechanical operation	/		W cycles/h	

**BF3200A57560** The characteristics described in this document are subject to updates or modifications at any time. The descriptions, technical and functional information, illustrations and instructions in this brochure are purely illustrative, and are consequently not contractually binding

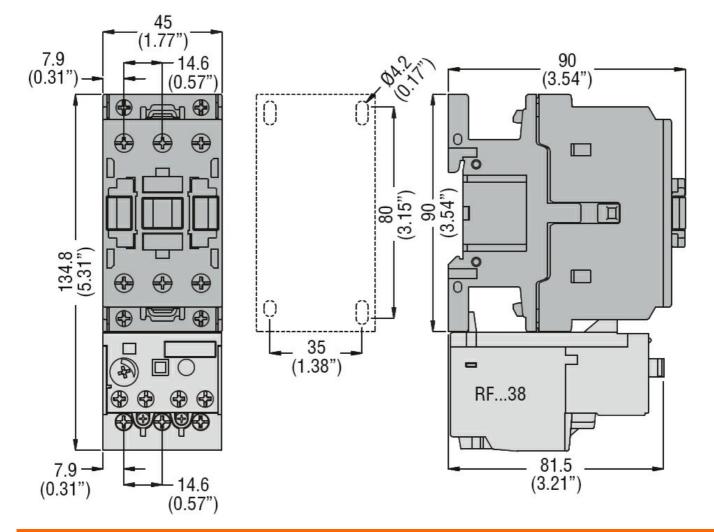


Average time for Us contro	SI .			
-	AC			
	Closing NO			
		min	ms	8
		max	ms	24
	Opening NO			
		min	ms	5
		max	ms	15
	Closing NC			0
		min	ms	9 20
	Opening NC	max	ms	20
	Opening NC	min	ms	9
		max	ms	17
UL technical data				
Full-load current (FLA) for	three-phase AC motor			
· · /	-	at 480V	А	27
		at 600V	А	27
Yielded mechanical perform	mance			
for	r single-phase AC motor			
		110/120V	HP	3
		230V	HP	7.5
for	r three-phase AC motor			
		200/208V	HP	10
		220/230V	HP	10
		460/480V	HP	20
General USE		575/600V	HP	25
	ontactor			
		AC current	А	55
Short-circuit protection fus	e 600V		7	00
•	gh fault			
		Short circuit current	kA	100
		Fuse rating	A	100
		Fuse class		J
Sta	andard fault			
		Short circuit current	kA	5
		Fuse rating	А	125
Ambient conditions				
Temperature				
Op	perating temperature			
		min	°C °C	-50
01	orage tomperature	max	U.	70
50	orage temperature	min	°C	-60
		max	°C	80
Max altitude		max	 	3000
Resistance & Protection				
Pollution degree				3
Dimensions				

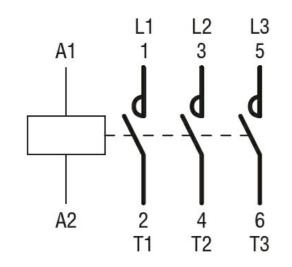
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THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 32A, AC COIL 60HZ, 575VAC



Wiring diagrams



## Certifications and compliance

Compliance



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

ETIM 8.0

Power contactor, AC switching