

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



Product designation			Power contactor
Product type designation			BF32
Contact characteristics		Nie	3
Number of poles Rated insulation voltage Ui IEC/EN		Nr. V	690
Rated insulation voltage of IEC/EN  Rated impulse withstand voltage Uimp		kV	6
Operational frequency		KV	0
Operational frequency	min	Ы⊸	25
	min	Hz Hz	25 400
IEC Conventional free air thermal current Ith	max	<u>П</u> 2	56
Operational current le			50
Operational current le	AC 1 (<10°C)	۸	56
	AC-1 (≤40°C) AC-1 (≤55°C)	A	45
	AC-1 (≤55 C) AC-1 (≤70°C)	A A	40
	AC-3 (≤440V ≤55°C)	A	32
	AC-3 (\$440V \$55 C) AC-4 (400V)	A	13.5
Rated operational power AC-3 (T≤55°C)	AC-4 (400V)		13.3
Rated operational power AC-3 (1505 C)	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)	030 V	KVV	22
Nated operational power AC-1 (1340 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	000 V	1000	02
TEO THAN OUT OF THE BOT WITH ETY = THIS WITH T POICS IT SCHOO	≤24V	Α	30
	48V	A	26
	75V	A	22
	110V	A	8
	220V	Α	_
IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series	2201		
120 max current to in 201 min 271 - mic man 2 person in certain	≤24V	Α	32
	48V	A	32
	75V	Α	28
	110V	Α	25
	220V	Α	3
IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series		- •	<u>-</u>
	≤24V	Α	32
	48V	Α	32
	75V	A	32
	110V	Α	27
		-	



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	220V	Α	23
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series			
120 max carrent to in 201 mar 2/10 mile mar 1 polec in conce	≤24V	۸	
		A	_
	48V	Α	_
	75V	Α	_
	110V	Α	_
	220V	Α	_
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series			
	≤24V	Α	20
	48V	Α	17
	75V	A	15
	110V	Α	2,5
	220V	Α	_
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series			
	≤24V	Α	25
	48V	Α	22
	75V	A	20
	110V	Α	15
	220V	Α	3
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series			
	≤24V	Α	30
	48V	Α	28
	75V	Α	28
	110V		
		A	20
	220V	A	23
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series			
	≤24V	Α	_
	48V	Α	_
	75V	Α	_
	110V	Α	_
	220V	Α	_
Short-time allowable current for 10s (IEC/EN60947-1)		Α	320
Protection fuse			
	gG (IEC)	Α	63
	aM (IEC)	Α	32
Making capacity (RMS value)	( /	Α	320
Breaking capacity at voltage		- / \	020
breaking capacity at voltage	4.4017	Δ.	050
	440V	Α	256
	500V	Α	240
	690V	Α	192
Resistance per pole (average value)		mΩ	2
Power dissipation per pole (average value)			
(	lth	W	6
		W	2
Tightening to see to see the	AC-3	٧٧	۷
Tightening torque for terminals		_	
	min	Nm	2.5
	max	Nm	3
	min	lbin	1.8
	max	Ibin	2.2
Tightening torque for coil terminal	11107		
righterning torque for confictininal		Nina	0.0
	min	Nm	0.8
	max	Nm	1
	min	lbin	0.8



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

May number of wires	nimultan a qualiz connectable	max	Ibin	0.74
	simultaneously connectable		Nr.	2
Conductor section	AWG/Kcmil			
	AWG/Rettill	max		6
	Flexible w/o lug conductor section	max		
	o	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 IP20 when
Power terminal protect	ction according to IEC/EN 60529			properly wired
Mechanical features				properly wired
Operating position				
		normal		Vertical plan
		allowable		±30°
Fixing				Screw / DIN rail 35mm
Weight			g	428
Conductor section				
	AWG/kcmil conductor section			
		max		6
Operations				0000000
Mechanical life			cycles	20000000
Electrical life Safety related data			cycles	1600000
•	0d according to EN/ISO 13489-1			
T chomianoc icver bi	od doodraling to Envisor 10400 1	rated load	cycles	1600000
	m	echanical load	cycles	20000000
Mirror contats accordi	ing to IEC/EN 609474-4-1			
				yes
EMC compatibility				yes yes
AC coil operating Rated AC voltage at 5			V	
AC coil operating Rated AC voltage at 5	50/60Hz		V	yes
AC coil operating Rated AC voltage at 5	of 50/60Hz coil powered at 50Hz		V	yes
AC coil operating Rated AC voltage at 5	50/60Hz			yes 110
AC coil operating Rated AC voltage at 5	of 50/60Hz coil powered at 50Hz	min	%Us	yes 110 80
EMC compatibility AC coil operating Rated AC voltage at 5 AC operating voltage	of 50/60Hz coil powered at 50Hz pick-up	min max		yes 110
AC coil operating Rated AC voltage at 5	of 50/60Hz coil powered at 50Hz	max	%Us %Us	yes 110 80 110
AC coil operating Rated AC voltage at 5	of 50/60Hz coil powered at 50Hz pick-up	max min	%Us %Us %Us	yes 110 80 110 20
AC coil operating Rated AC voltage at 5	of 50/60Hz coil powered at 50Hz pick-up drop-out	max	%Us %Us	yes 110 80 110
AC coil operating Rated AC voltage at 5	of 50/60Hz coil powered at 50Hz pick-up	max min	%Us %Us %Us	yes 110 80 110 20
AC coil operating 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	yes 110 80 110 20
AC coil operating 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	%Us %Us %Us %Us	yes 110 80 110 20 55
AC coil operating 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 %Us	yes  110  80 110  20 55  85 110
AC coil operating 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 min	%Us %Us %Us %Us	yes 110 80 110 20 55

of 50/60Hz coil powered at 50Hz





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		in-rush	VA	75
		holding	VA	9
	of 50/60Hz coil powered at 60Hz			
	0. 00,00 <u> </u>	in-rush	VA	70
		holding	VA	6.5
	of 60Hz coil powered at 60Hz	riolaling	VA	0.0
	or our iz con powered at our iz	in-rush	VA	75
Disabation of baldings	<00°C FOLI-	holding	VA	9
Dissipation at holding			W	2.5
Max cycles frequency				
Mechanical operation			cycles/h	3600
Operating times				
Average time for Us of				
	in AC			
	Closing NO			
		min	ms	8
		max	ms	24
	Opening NO			
		min	ms	5
		max	ms	15
	Closing NC			
	one and	min	ms	9
		max	ms	20
	Opening NC	max	1110	20
	Opening NC	min	ms	9
				17
UL technical data		max	ms	17
	) for three-phase AC motor			
ruii-ioau curient (FLA)	) for three-phase AC motor	at 480V	٨	27
			A	27
VC 11 1 1 1 1		at 600V	Α	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	n fuse. 600V	canon		<del>-</del>
and another protoction	High fault			
		Short circuit current	kA	100
		Fuse rating	A	100
		_	^	
	Ctore doved for all	Fuse class		J
	Standard fault			_
		Short circuit current	kA	5
		Fuse rating	Α	125
Ambient conditions				
Temperature				
	Operating temperature			
		min	°C	-50

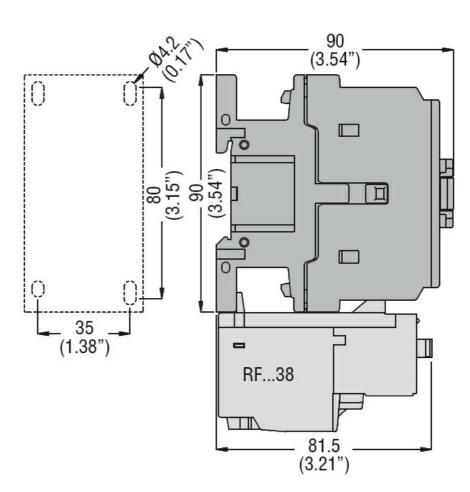


### THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 32A, AC COIL 50/60HZ, 110VAC

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

45 (1.77") 7.9 (0.31") 14.6 (0.57)7.9 <del>-</del> (0.31")

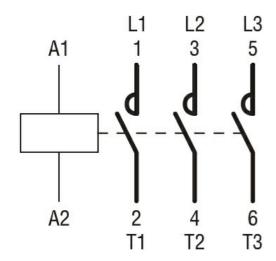
- 14.6 (0.57")



Wiring diagrams

**ENERGY AND AUTOMATION** 

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



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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