

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



Product designation Power contactor Product type designation BF32

1 roduct type designation			DI 32
Contact characteristics			
Number of poles		nr.	3
Rated insulation voltage Ui IEC/EN		V	690
Rated impulse withstand voltage Uimp		kV	6
Operational frequency			
	min	Hz	25
	max	Hz	400
IEC Conventional free air thermal current Ith		Α	56
Operational current le			
	AC-1 (≤40°C)	Α	56
	AC-1 (≤55°C)	Α	45
	AC-1 (≤70°C)	Α	40
	AC-3 (≤440V ≤55°C)	Α	32
	AC-4 (400V)	Α	13.5
Rated operational power AC-3 (T≤55°C)			
	230V	kW	8.8
	400V	kW	16
	415V	kW	17
	440V	kW	17
	500V	kW	20
	690V	kW	22
Rated operational power AC-1 (T≤40°C)			
	230V	kW	21
	400V	kW	36
	500V	kW	45
	690V	kW	62
IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series			
	≤24V	Α	30
	48V	Α	26
	75V	Α	22
	110V	Α	8
	220V	A	-
IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series			
	≤24V	Α	32
	48V	Α	32
	75V	Α	28
	110V	Α	25
	220V	Α	3
IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series			
	≤24V	Α	32
	48V	Α	32
	75V	Α	32
	110V	Α	27



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	220V	Α	23
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series			
	≤24V	Α	_
	48V	Α	_
	75V	Α	_
	110V	Α	_
	220V	Α	_
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series			
, , , , , , , , , , , , , , , , , , ,	≤24V	Α	20
	48V	A	17
	75V	Α	15
	110V	Α	2,5
	220V	A	_
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series	220 V		
TEC max current le in DC3-DC3 with E/K = 13ms with 2 poles in series	<24\/	۸	25
	≤24V	A	25
	48V	A	22
	75V	A	20
	110V	A	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	Α	20
	220V	Α	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
	440V	Α	256
	500V	A	240
	690V	A	192
Posistance per pole (average value)	0901		
Resistance per pole (average value)		mΩ	2
Power dissipation per pole (average value)	1.1	147	^
	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	lbft	0.8



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Max number of wires simultaneously connectable Conductor section	nr.	
		2
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		4
min	mm²	1
max	mm²	10
Power terminal protection according to IEC/EN 60529 Mechanical features		IP20 when wired
Operating position		
normal		Vertical plan
allowable		±30°
Fixing		Screw / DIN rail 35mm
Weight	g	422
Operations	J	
Mechanical life	cycles	20000000
Electrical life	cycles	1600000
Safety related data	,	
Performance level B10d according to EN/ISO 13489-1		
rated load	cycles	1600000
mechanical load	cycles	20000000
Mirror contats according to IEC/EN 609474-4-1		yes
EMC compatibility		yes
Rated AC voltage at 60Hz	V	220
AC coil operating		
AC operating voltage		
of 60Hz coil powered at 60Hz		
pick-up		
min	%Us	80
max	%Us	110
drop-out		
min	%Us	20
max	%Us	55
AC average coil consumption at 20°C		
of 50/60Hz coil powered at 50Hz		
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
-	W	2.5
Dissipation at holding ≤20°C 50Hz	V V	
Dissipation at holding ≤20°C 50Hz Max cycles frequency		
Dissipation at holding ≤20°C 50Hz	cycles/h	3600





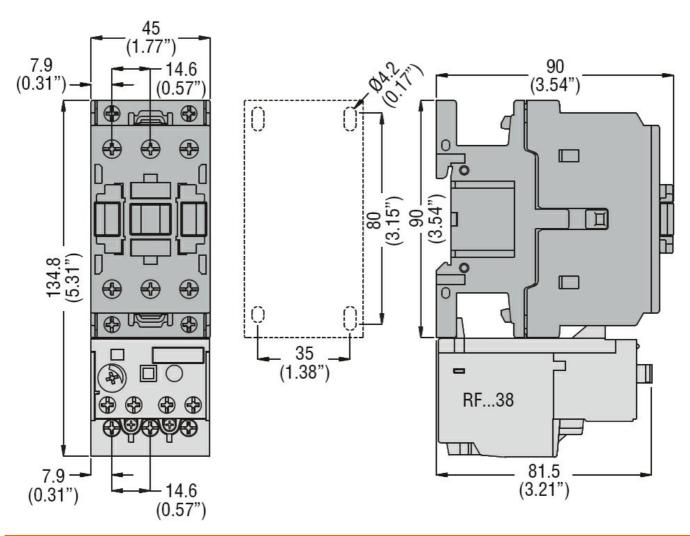
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Average time for Us control	
in AC	
Closing NO	
min ms	8
max ms	24
Opening NO	
min ms	5
max ms	15
Closing NC	
min ms	9
max ms	20
Opening NC	
min ms	9
max ms	17
UL technical data	
Full-load current (FLA) for three-phase AC motor	
at 480V A	27
at 600V A	27
Yielded mechanical performance	
for single-phase AC motor	_
110/120V HP	3
	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	FF
Short-circuit protection fuse, 600V AC current A	55
•	
High fault Short circuit current kA	100
	100
Fuse rating A Fuse class	J
Standard fault	<u> </u>
Short circuit current kA	5
Fuse rating A	125
Ambient conditions	. 20
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	

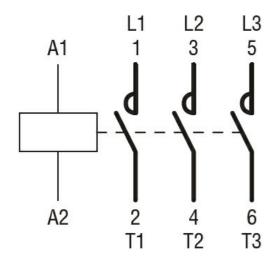
220VAC



ENERGY AND AUTOMATION



Wiring diagrams



Certifications and compliance

Compliance

CSA C22.2 n° 60947-1

CSA C22.2 n° 60947-4-1

IEC/EN 60947-1

IEC/EN 60947-4-1

UL 60947-1



BF3200A22060

AC switching

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

	UL 60947-4-1	
Certificates		
	CCC	
	cULus	
	EAC	
ETIM classification	n	
ETIM 8.0		EC000066 - Power contactor,