ENERGY AND AUTOMATION

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



Product designation Product type designation			Power contactor BF32
Contact characteristics			5. 02
Number of poles		nr.	3
Rated insulation voltage Ui		V	690
Rated impulse withstand voltage Uimp		kV	6
Operating frequency			
operating mequency	Operational frequency min	Hz	25
	Operational frequency max	Hz	400
Conventional free air thermal current Ith	operational inequality man	Α	56
Operating current			
oporating current	Operational current AC1 (≤40°C)	Α	56
	Operational current AC3 (≤440V ≤55°C)	Α	32
	Operational current AC4 (400V)	Α	13.5
Rated operational power AC1 (T≤40°C)			
(= . · · · · · · · · · · · · · · · · · ·	230V	kW	21
	400V	kW	36
	500V	kW	45
	690V	kW	62
Rated operational power AC3 (T≤55°C)			
rated operational power rice (1=00 °C)	230V	kW	8.8
	400V	kW	16
	415V	kW	17
	440V	kW	17
	500V	kW	20
	690V	kW	22
Short-time allowable current for 10s (IEC/EN		A	320
Protection fuse			
	gG (IEC)	Α	63
	aM (IEC)	Α	32
Making capacity (RMS value)	(-2 0)	Α	320
Breaking capacity at voltage			
5 1 5 3 5	Breaking capacity 440V	Α	256
	Breaking capacity 500V	Α	240
	Breaking capacity 690V	Α	192
Resistance per pole (average value)		mΩ	2
Power dissipation per pole (average value)			_
and and a point (and age raide)	Power dissipation pole (average value) Ith	W	6
	AC3	W	2
Tightening torque for terminals	, noo	- •	_ -
33 q3	min	Nm	2.5
	max	Nm	3
	min	lbft	1.8
	max	lbft	2.2
Tightening torque for coil terminal	max		

Tightening torque for coil terminal



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		min	Nm	0.8
		max	Nm	1
		min	lbft	0.8
		max	lbft	0.74
max number of wires	simultaneously connectable		nr.	2
Conductor section				
	AWG			
		min		14
		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	n		
	·	min	mm²	1
		max	mm²	10
Power terminal protect	ction according to IEC/EN 60529			IP20 when wired
Auxiliary contact chara				
Operational current A			Α	56
Operating current DC				
operating earrorn 20		110V	۸	Screw / DIN rail
		1100	Α	35mm
Ambient conditions				
Temperature				
	Operating temperature			
		min	°C	-50
		max	°C	70
	Storage temperature			_
		min	°C	-60
		max	°C	80
Max altitude			m	3000
Operating position				
operaning peensen		normal		Vertical plan
		allowable		±30°
		anowabic		Screw / DIN rail
Mounting				35mm
Weight			g	0.428
Operations			9	0.120
Mechanical life			Cycles	20000000
Electrical life			Cycles	1600000
Safety related data			Oycics	1000000
	0d according to EN/ISO 13489-1			
i ciloiiilalice level DT	Tod according to ETV/130 13403-1	المعالمة	Ciali	1600000
		rated load	Cicli	1600000
B.4'	:	mechanical load	Cicli	20000000
	ING TO IEC/EN 6094/4-4-7			yes
Mirror contats accordi				
EMC compatibility	g to 120/211 000 17 1 1 1			yes
EMC compatibility AC coil operating				yes
EMC compatibility				yes
EMC compatibility AC coil operating	of 50/60Hz coil powered at 50Hz			yes
EMC compatibility AC coil operating		min	%Us	yes 0.8





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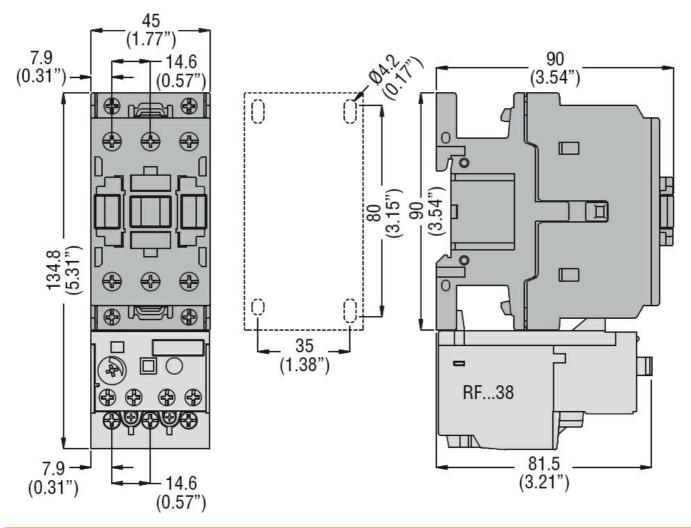
		max	%Us	1.1
	drop-out		,,,,,	
	anop out	min	%Us	0.2
		max	%Us	0.55
	of 50/60Hz coil powered at 60Hz	Пих	7003	0.00
	•			
	pick-up	min	%Us	0.05
		min	%Us	0.85 1.1
	duan aut	max	%US	1.1
	drop-out	•	0/11-	0.0
		min	%Us	0.2
		max	%Us	0.55
	of 60Hz coil powered at 60Hz			
	pick-up			
		min	%Us	0.8
		max	%Us	1.1
	drop-out			
		min	%Us	0.2
		max	%Us	0.55
AC operating voltage				
, ,	of 50/60Hz coil powered at 50Hz			
	·	in-rush	VA	75
		holding	VA	9
	of 50/60Hz coil powered at 60Hz	9		
	or 50/00112 con powered at 60112	in-rush	VA	70
		holding	VA	6.5
	of COLLE and noward at COLLE	riolality	V/\	0.5
	of 60Hz coil powered at 60Hz	ام سامه	VA	75
		in-rush		75
B' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '	10000 FOLL	holding	VA	9
Dissipation at holding:	\$20°C 50HZ		W	2.5
Max cycles frequency				
Mechanical operations			Cycles/h	3600
Operating times				
Average time for Us co				
	in AC			
	Closing NO			
		min	ms	8
		max	ms	24
	Opening NO			
		min	ms	5
		max	ms	15
UL technical data				
	for three-phase AC motor			
, ,	·	at 480V	Α	27
		at 600V	Α	27
Yielded mechanical pe	erformance			
pc	for single-phase AC motor			
	ioi oingio pridoo Ao motor	at 110/120V	hp	3
		at 110/120V	-	7.5
	for three phase AC mater	ai 230V	hp	1.0
	for three-phase AC motor	ot 000/0001	سما	10
		at 200/208V	hp	10
		at 220/230V	hp	10
		at 460/480V	hp	20
		at 575/600V	hp	25
General USE				

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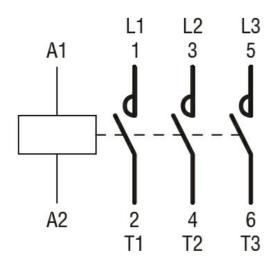
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Contactor

	AC current	Α	32	
Other features				
Pollution degree			3	
Dimonsions				



Wiring diagrams



Certifications and compliance

Certifications



BF3200A110

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	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
	UL 60947-4-1
Compliance	
	CCC
	cULus
	EAC

ETIM 6 classification

EC000066 - Power contactor, AC switching