



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		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	A	22
	110V	A	8
IFC many assument to in DC4 with L/D < 4 man with 2 males in parties	220V	Α	
IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series	<b>-04</b> 1/	۸	0.0
	≤24V	A	32
	48V 75V	A	32
	75 V 110 V	A	28 25
	220V	A A	3
IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series	22U V	^	J
ILO MAX current le in DOT with L/N > This with 3 poles in selles	≤24V	Α	32
	≥24 V 48 V	A	32 32
	46 V 75 V	A	32
	110V	A	32 27
	1100	Α.	<b>~</b> !



	220V	Α	23
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series			
·	≤24V	Α	_
	48V	Α	_
	75V	A	_
	110V	Α	_
	220V		_
IFO	220 V	A	<del>-</del>
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series		_	
	≤24V	Α	20
	48V	Α	17
	75V	Α	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	Α	20
	110V	A	15
IFO was assemble in DOO DOE will LID 445. Which is not a second of the control of	220V	A	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	A	
			_
	110V	A	_
	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			
	440V	Α	256
	500V	A	240
	690V	A	192
Desigtance per pale (everage vielve)	090 V		
Resistance per pole (average value)		mΩ	2
Power dissipation per pole (average value)			
	Ith	W	6
	AC-3	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	HUX		
rightoning torque for contentinal	nain	Nim	Λ Θ
	min	Nm	0.8
	max	Nm	1
	min	lbin	0.8



May purchase of wise a	ma		0.74
Max number of wires s Conductor section	simultaneously connectable	Nr.	2
Conductor Section	AWG/Kcmil		
	AWO/Remii ma	ıx	6
	Flexible w/o lug conductor section		
	m	n mm²	2.5
	ma	ıx mm²	16
	Flexible c/w lug conductor section		
	m	n mm²	1
	ma	x mm²	10
	Flexible with insulated spade lug conductor section		
	m		1
	ma	ıx mm²	10
Power terminal protec	tion according to IEC/EN 60529		IP20 when properly wired
Mechanical features			properly wired
Operating position			
- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	norm	al	Vertical plan
	allowab		±30°
Fiving			Screw / DIN rail
Fixing			35mm
Weight		g	558
Operations			
Mechanical life		cycles	20000000
Electrical life		cycles	1600000
Safety related data	0 Lancon Para (a FN/IOO 40400 4		
Performance level B10	0d according to EN/ISO 13489-1 rated loa	م میرمامم	1600000
	mechanical loa	,	2000000
EMC compatibility	mechanical loa	u cycles	yes
AC coil operating			yes
AC operating voltage			
3 3 3 3 3	of 50/60Hz coil powered at 50Hz		
	drop-out		
	ma	x %Us	55
DC coil operating			
DC rated control voltage	ge	V	48
DC operating voltage			
	pick-up		
	m		80
	drap out	x %Us	110
	drop-out	n %Us	10
	m ma		40
Average coil consump		/005	70
wordyo oon oonsump	in-rus	h W	2.4
	holdir		2.4
Max cycles frequency	- Toldii	J ''	·
Mechanical operation		cycles/h	3600
Operating times			
Average time for Us co	ontrol		
	in AC		



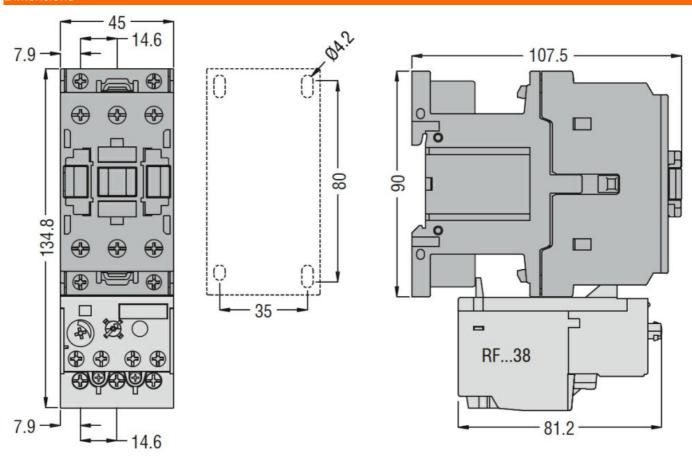
	Clasina NO			
	Closing NO	min	me	8
		max	ms ms	24
	Opening NO	max	1113	24
	Oponing No	min	ms	5
		max	ms	15
	Closing NC			
	•	min	ms	9
		max	ms	20
	Opening NC			
		min	ms	9
		max	ms	17
	in DC			
	Closing NO			
		min	ms	76
	On a ring NO	max	ms	92
	Opening NO	min	ma	16
		max	ms ms	20
UL technical data		IIIdx	1115	20
Rated operational volta	age AC (UL)		V	600
	for three-phase AC motor		•	
r an load barront (1 22 t)	Tot under priced / to meter	at 480V	Α	27
		at 600V	Α	27
Yielded mechanical pe	rformance			
·	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	40		
Chart aireadt mastastics	fues 600V	AC current	Α	55
Short-circuit protection				
	High fault	Short circuit current	kA	100
		Fuse rating	KA A	100
		Fuse class	, ,	J
	Standard fault	. 400 01400		
		Short circuit current	kA	5
		Fuse rating	Α	125
Ambient conditions				
Temperature				
	Operating temperature			
		min	°C	-50
		max	°C	70
	Storage temperature			
		min	°C	-60
NA 102 - 1		max	°C	80
Max altitude	<u> </u>		m	3000
Resistance & Protection	on			

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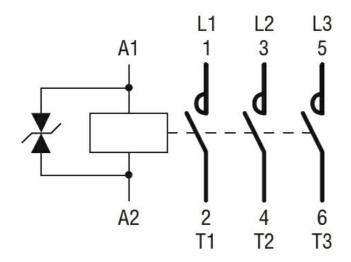
THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 32A, DC COIL LOW CONSUMPTION, 48VDC

Pollution degree 3

#### **Dimensions**



### Wiring diagrams



### Certifications and compliance

#### Compliance

CSA C22.2 n° 60947-1

CSA C22.2 n° 60947-4-1

IEC/EN/BS 60947-1

IEC/EN/BS 60947-4-1

UL 60947-1

UL 60947-4-1



**ENERGY AND AUTOMATION** 

### BF3200L048

THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 32A, DC COIL LOW CONSUMPTION, 48VDC

Certificates			
	CCC		
	cULus		
	EAC		
ETIM classificatio	n		

ETIM 8.0

EC000066 -Power contactor, AC switching