



			•
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		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	Α	_
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



	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 the same of the	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 number of other	nimultan a qualiz a anno atable	max	Ibin	0.74
	simultaneously connectable		Nr.	2
Conductor section	AWG/Kcmil			
	AWG/Rettill	max		6
	Flexible w/o lug conductor section	max		
	Tiombio 11/0 lag contactor cocacin	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				property who
Operating position				
. 51		normal		Vertical plan
		allowable		±30°
Fixing				Screw / DIN rail 35mm
Weight			g	424
Conductor section				
	AWG/kcmil conductor section			
		max		6
Operations				0000000
Mechanical life Electrical life			cycles	20000000
Safety related data			cycles	1600000
•	0d according to EN/ISO 13489-1			
r chomianoe iever Br	od doodraing to ETVIDO 10400 1			
		rated load	cycles	1600000
	me	rated load echanical load	cycles cycles	1600000 20000000
Mirror contats accordi		rated load echanical load	cycles cycles	20000000
Mirror contats accordi EMC compatibility	me ing to IEC/EN 609474-4-1		-	
			-	20000000 yes
EMC compatibility	ing to IEC/EN 609474-4-1		-	20000000 yes
EMC compatibility AC coil operating Rated AC voltage at 5	ing to IEC/EN 609474-4-1 50/60Hz		cycles	20000000 yes yes
EMC compatibility AC coil operating Rated AC voltage at 5	of 50/60Hz coil powered at 50Hz		cycles	20000000 yes yes
EMC compatibility AC coil operating Rated AC voltage at 5	ing to IEC/EN 609474-4-1 50/60Hz	echanical load	V	20000000 yes yes 230
EMC compatibility AC coil operating Rated AC voltage at 5	of 50/60Hz coil powered at 50Hz	echanical load	v V	20000000 yes yes 230
EMC compatibility AC coil operating	of 50/60Hz coil powered at 50Hz pick-up	echanical load	V	20000000 yes yes 230
EMC compatibility AC coil operating Rated AC voltage at 5	of 50/60Hz coil powered at 50Hz	echanical load min max	V Wus %Us	20000000 yes yes 230
EMC compatibility AC coil operating Rated AC voltage at 5	of 50/60Hz coil powered at 50Hz pick-up	echanical load  min max min	V WUS %US %US	20000000 yes yes 230  80 110 20
EMC compatibility AC coil operating Rated AC voltage at 5	of 50/60Hz coil powered at 50Hz pick-up	echanical load min max	V Wus %Us	20000000 yes yes 230
EMC compatibility 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	echanical load  min max min	V WUS %US %US	20000000 yes yes 230  80 110 20
EMC compatibility AC coil operating Rated AC voltage at 5	of 50/60Hz coil powered at 50Hz pick-up	echanical load  min max min	V WUS %US %US	20000000 yes yes 230  80 110 20
EMC compatibility 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	min max min max	V  %Us %Us %Us %Us %Us	20000000 yes yes 230  80 110 20 55
EMC compatibility 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	min max min max	V  %Us %Us %Us %Us %Us	20000000  yes  yes  230  80 110  20 55
EMC compatibility AC coil operating Rated AC voltage at 5	of 50/60Hz coil powered at 50Hz pick-up  of 50/60Hz coil powered at 60Hz pick-up	min max min max	V  %Us %Us %Us %Us %Us	20000000  yes  yes  230  80 110  20 55

of 50/60Hz coil powered at 50Hz

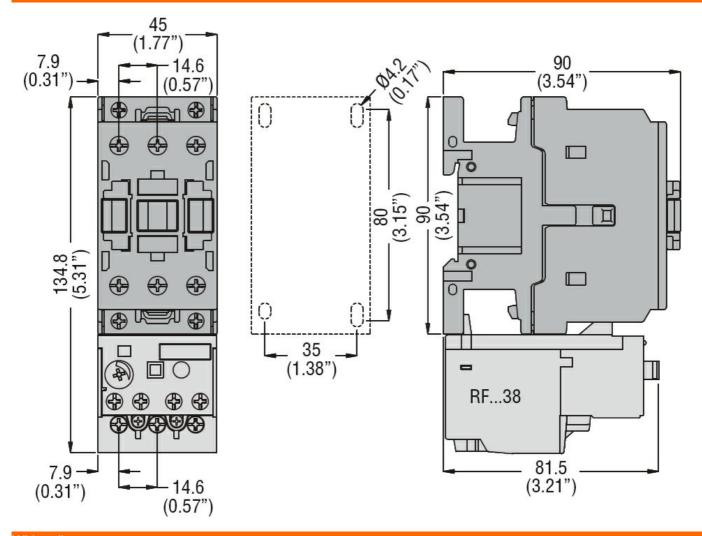


		in-rush	VA	75
		holding	VA	9
	of 50/60Hz coil powered at 60Hz	noiding .	٧, ١	
	of 30/00112 coil powered at 00112	in much	١/٨	70
		in-rush	VA	70
	-	holding	VA	6.5
	of 60Hz coil powered at 60Hz			
		in-rush	VA	75
		holding	VA	9
Dissipation at holding	≤20°C 50Hz		W	2.5
Max cycles frequency				
Mechanical operation			cycles/h	3600
Operating times			, , , , , ,	
Average time for Us of	ontrol			
Average time for 03 of	in AC			
	Closing NO			•
		min	ms	8
		max	ms	24
	Opening NO			
		min	ms	5
		max	ms	15
	Closing NC			
	3 3 3	min	ms	9
		max	ms	20
	Opening NC	max	1110	20
	Opening NC			0
		min	ms	9
		max	ms	17
UL technical data				
Full-load current (FLA)	) for three-phase AC motor			
		at 480V	Α	27
		at 600V	Α	27
Yielded mechanical pe	erformance			
	for single-phase AC motor			
	3 1	110/120V	HP	3
		230V	HP	7.5
	for three-phase AC motor	2001		7.0
	ioi tilioo pilase Ao motol	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			
	High fault			
	g	Short circuit current	kA	100
		Fuse rating	A	100
		_	^	
	Otan dand fault	Fuse class		J
	Standard fault	<b>0</b> 1		_
		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
	max	°C	80
Max altitude		m	3000
Resistance & Protection			
Pollution degree			3
Dimensions			

#### **Dimensions**

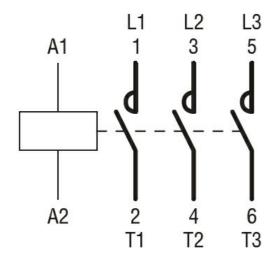


Wiring diagrams



**ENERGY AND AUTOMATION** 

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



#### 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