

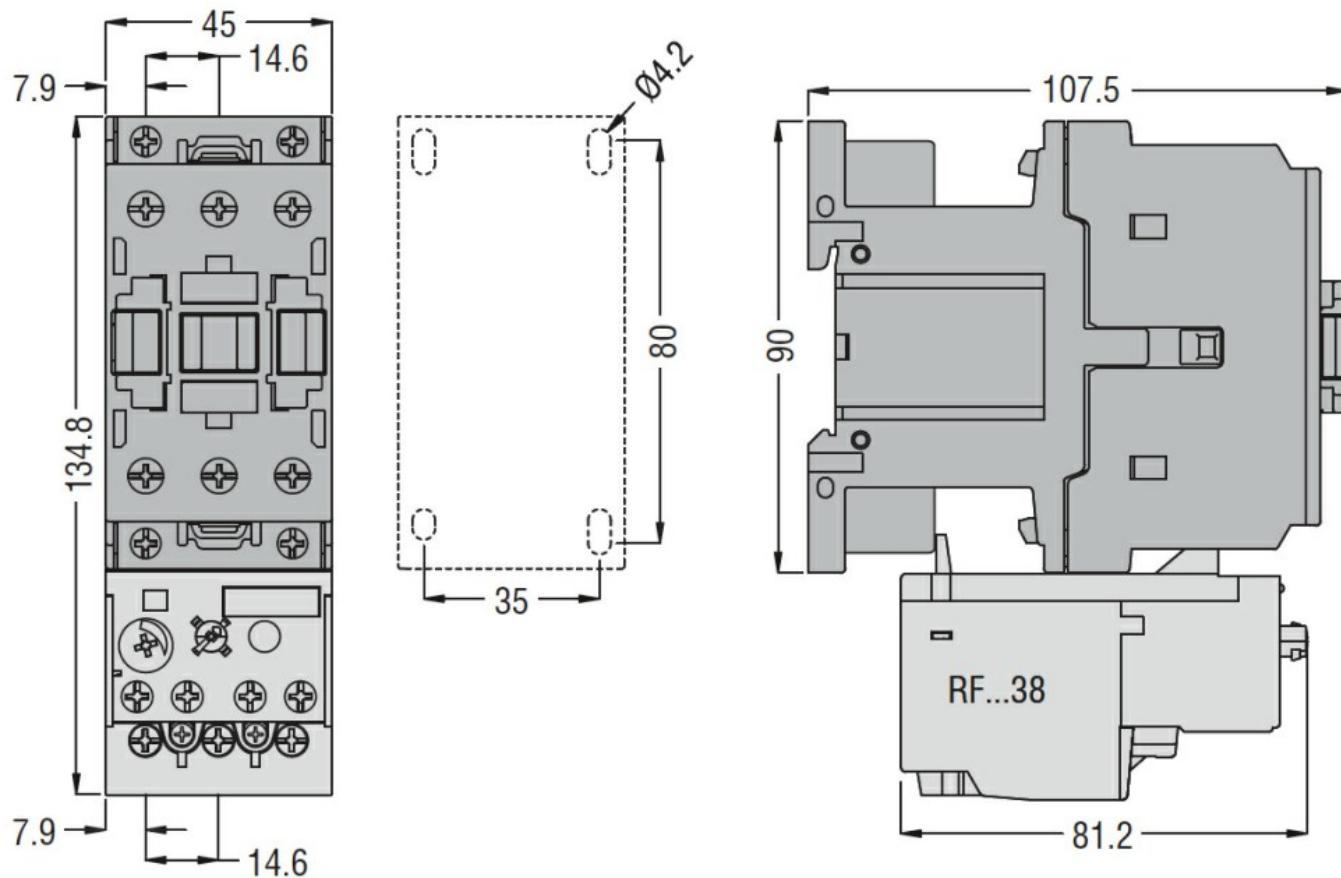


Product designation	Power contactor		
Product type designation	BF32		
<b>Contact characteristics</b>			
Number of poles	Nr.	3	
Rated insulation voltage $Ui$ IEC/EN	V	690	
Rated impulse withstand voltage $Uimp$	kV	6	
Operational frequency	min	Hz	25
	max	Hz	400
IEC Conventional free air thermal current $Ith$		A	56
Operational current $le$			
	AC-1 ( $\leq 40^\circ C$ )	A	56
	AC-1 ( $\leq 55^\circ C$ )	A	45
	AC-1 ( $\leq 70^\circ C$ )	A	40
	AC-3 ( $\leq 440V \leq 55^\circ C$ )	A	32
	AC-4 (400V)	A	13.5
Rated operational power AC-3 ( $T \leq 55^\circ C$ )	230V	kW	8.8
	400V	kW	16
	415V	kW	17
	440V	kW	17
	500V	kW	20
	690V	kW	22
Rated operational power AC-1 ( $T \leq 40^\circ C$ )	230V	kW	21
	400V	kW	36
	500V	kW	45
	690V	kW	62
IEC max current $le$ in DC1 with $L/R \leq 1ms$ with 1 poles in series	$\leq 24V$	A	30
	48V	A	26
	75V	A	22
	110V	A	8
	220V	A	—
IEC max current $le$ in DC1 with $L/R \leq 1ms$ with 2 poles in series	$\leq 24V$	A	32
	48V	A	32
	75V	A	28
	110V	A	25
	220V	A	3
IEC max current $le$ in DC1 with $L/R \leq 1ms$ with 3 poles in series	$\leq 24V$	A	32
	48V	A	32
	75V	A	32
	110V	A	27

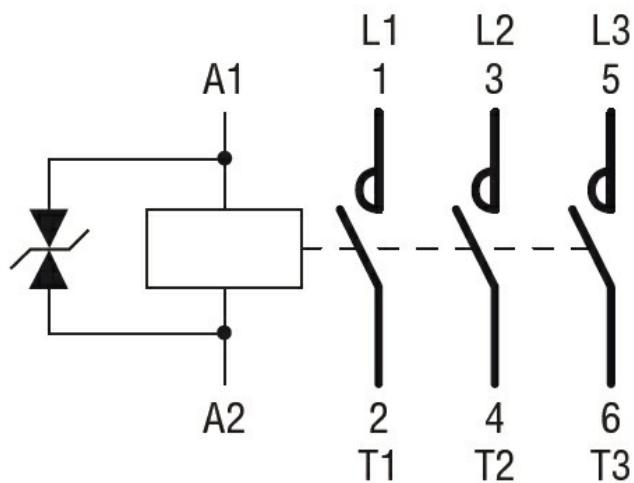
	220V	A	23
IEC max current $I_e$ in DC1 with $L/R \leq 1\text{ms}$ with 4 poles in series			
	$\leq 24V$	A	—
	48V	A	—
	75V	A	—
	110V	A	—
	220V	A	—
IEC max current $I_e$ in DC3-DC5 with $L/R \leq 15\text{ms}$ with 1 poles in series			
	$\leq 24V$	A	20
	48V	A	17
	75V	A	15
	110V	A	2,5
	220V	A	—
IEC max current $I_e$ in DC3-DC5 with $L/R \leq 15\text{ms}$ with 2 poles in series			
	$\leq 24V$	A	25
	48V	A	22
	75V	A	20
	110V	A	15
	220V	A	3
IEC max current $I_e$ in DC3-DC5 with $L/R \leq 15\text{ms}$ with 3 poles in series			
	$\leq 24V$	A	30
	48V	A	28
	75V	A	28
	110V	A	20
	220V	A	23
IEC max current $I_e$ in DC3-DC5 with $L/R \leq 15\text{ms}$ with 4 poles in series			
	$\leq 24V$	A	—
	48V	A	—
	75V	A	—
	110V	A	—
	220V	A	—
Short-time allowable current for 10s (IEC/EN60947-1)			A 320
Protection fuse			
	gG (IEC)	A	63
	aM (IEC)	A	32
Making capacity (RMS value)			A 320
Breaking capacity at voltage			
	440V	A	256
	500V	A	240
	690V	A	192
Resistance per pole (average value)			$\text{m}\Omega$ 2
Power dissipation per pole (average value)			
	I <sub>th</sub>	W	6
	AC-3	W	2
Tightening torque for terminals			
	min	Nm	2.5
	max	Nm	3
	min	I <sub>bin</sub>	1.8
	max	I <sub>bin</sub>	2.2
Tightening torque for coil terminal			
	min	Nm	0.8
	max	Nm	1
	min	I <sub>bin</sub>	0.8

	max	Ibin	0.74
Max number of wires simultaneously connectable		Nr.	2
Conductor section			
AWG/Kcmil	max		6
Flexible w/o lug conductor section	min	mm <sup>2</sup>	2.5
	max	mm <sup>2</sup>	16
Flexible c/w lug conductor section	min	mm <sup>2</sup>	1
	max	mm <sup>2</sup>	10
Flexible with insulated spade lug conductor section	min	mm <sup>2</sup>	1
	max	mm <sup>2</sup>	10
Power terminal protection according to IEC/EN 60529			IP20 when properly wired
<b>Mechanical features</b>			
Operating position	normal allowable		Vertical plan ±30°
Fixing			Screw / DIN rail 35mm
Weight		g	554
<b>Operations</b>			
Mechanical life		cycles	20000000
Electrical life		cycles	1600000
<b>Safety related data</b>			
Performance level B10d according to EN/ISO 13489-1	rated load mechanical load	cycles	1600000 20000000
EMC compatibility			yes
<b>DC coil operating</b>			
DC rated control voltage		V	24
DC operating voltage			
pick-up	min max	%Us	70 125
drop-out	min max	%Us	10 40
Average coil consumption ≤20°C		in-rush holding	W W
			5.4 5.4
<b>Max cycles frequency</b>			
Mechanical operation		cycles/h	3600
<b>Operating times</b>			
Average time for Us control			
in AC			
Closing NO			
	min max	ms	8 24
Opening NO			
	min max	ms	5 15

Closing NC		min	ms	9
		max	ms	20
Opening NC		min	ms	9
		max	ms	17
in DC				
Closing NO		min	ms	54
		max	ms	66
Opening NO		min	ms	14
		max	ms	17
<b>UL technical data</b>				
Rated operational voltage AC (UL)		V	600	
Full-load current (FLA) for three-phase AC motor		at 480V	A	27
		at 600V	A	27
<b>Yielded mechanical performance</b>				
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
<b>General USE</b>				
Contactor		AC current	A	55
<b>Short-circuit protection fuse, 600V</b>				
High fault		Short circuit current	kA	100
		Fuse rating	A	100
		Fuse class	J	
Standard fault		Short circuit current	kA	5
		Fuse rating	A	125
<b>Ambient conditions</b>				
<b>Temperature</b>				
Operating temperature		min	°C	-50
		max	°C	70
Storage temperature		min	°C	-60
		max	°C	80
<b>Max altitude</b>		m	3000	
<b>Resistance &amp; Protection</b>				
Pollution degree			3	
<b>Dimensions</b>				



### 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

#### Certificates

CCC

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cULus

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EAC

ETIM classification

ETIM 8.0

EC000066 -  
Power contactor,  
AC switching