



Product designation				Power contactor
Product type designation				BF32
Contact characteristics				
Number of poles	nr.	3		
Rated insulation voltage U_i IEC/EN	V	690		
Rated impulse withstand voltage U_{imp}	kV	6		
Operational frequency	min	Hz	25	
	max	Hz	400	
Conventional free air thermal current I_{th} IEC/EN	A	56		
Operational current I_e	AC-1 ($\leq 40^\circ\text{C}$)	A	56	
	AC-3 ($\leq 440\text{V} \leq 55^\circ\text{C}$)	A	32	
	AC-4 (400V)	A	13.5	
Rated operational power AC-1 ($T \leq 40^\circ\text{C}$)	230V	kW	21	
	400V	kW	36	
	500V	kW	45	
	690V	kW	62	
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)	m Ω	2		
Power dissipation per pole (average value)	I_{th}	W	6	
	AC3	W	2	
Tightening torque for terminals	min	Nm	2.5	
	max	Nm	3	
	min	lbin	1.8	
	max	lbin	2.2	
Tightening torque for coil terminal	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	Flexible w/o lug conductor section			

	min	mm ²	2.5
	max	mm ²	16
Flexible c/w lug conductor section			
	min	mm ²	1
	max	mm ²	10
Flexible with insulated spade lug conductor section			
	min	mm ²	1
	max	mm ²	10
Power terminal protection according to IEC/EN 60529			IP20 when wired
Mechanical features			
Operating position			
	normal allowable		vertical plan ±30°
Fixing			Screw / DIN rail 35mm
Weight			g 0.554
Operations			
Mechanical life			Cycles 20000000
Electrical life			Cycles 1600000
Safety related data			
Performance level B10d according to EN/ISO 13489-1			
	rated load	Cicli	1600000
	mechanical load	Cicli	20000000
Mirror contacts according to IEC/EN 60947-4-1			yes
EMC compatibility			yes
AC coil operating			
Rated AC voltage at 50/60Hz, 60Hz			
	min	V	12
	max	V	600
AC operating voltage 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	7
of 60Hz coil powered at 60Hz			
	in-rush	VA	75
	holding	VA	9
Dissipation at holding ≤20°C 50Hz			W 2.5
DC coil operating			
DC rated control voltage			
	min	V	6
DC operating voltage			
pick-up			
	min	%Us	70
	max	%Us	125
drop-out			
	min	%Us	10
	max	%Us	40
Average coil consumption ≤20°C			
	in-rush	W	5.4
	holding	W	5.4

Max cycles frequency

Mechanical operations Cycles/h 3600

Operating times

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
in DC			
Closing NO	min	ms	54
	max	ms	66
Opening NO	min	ms	14
	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
	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

Contact rating of auxiliary contacts according to UL SI - A600

General USE			
Contactor			
	AC current	A	32
Auxiliary contacts			
	AC voltage	V	600
	AC current	A	10
	DC voltage	V	250
	DC current	A	1

Ambient conditions

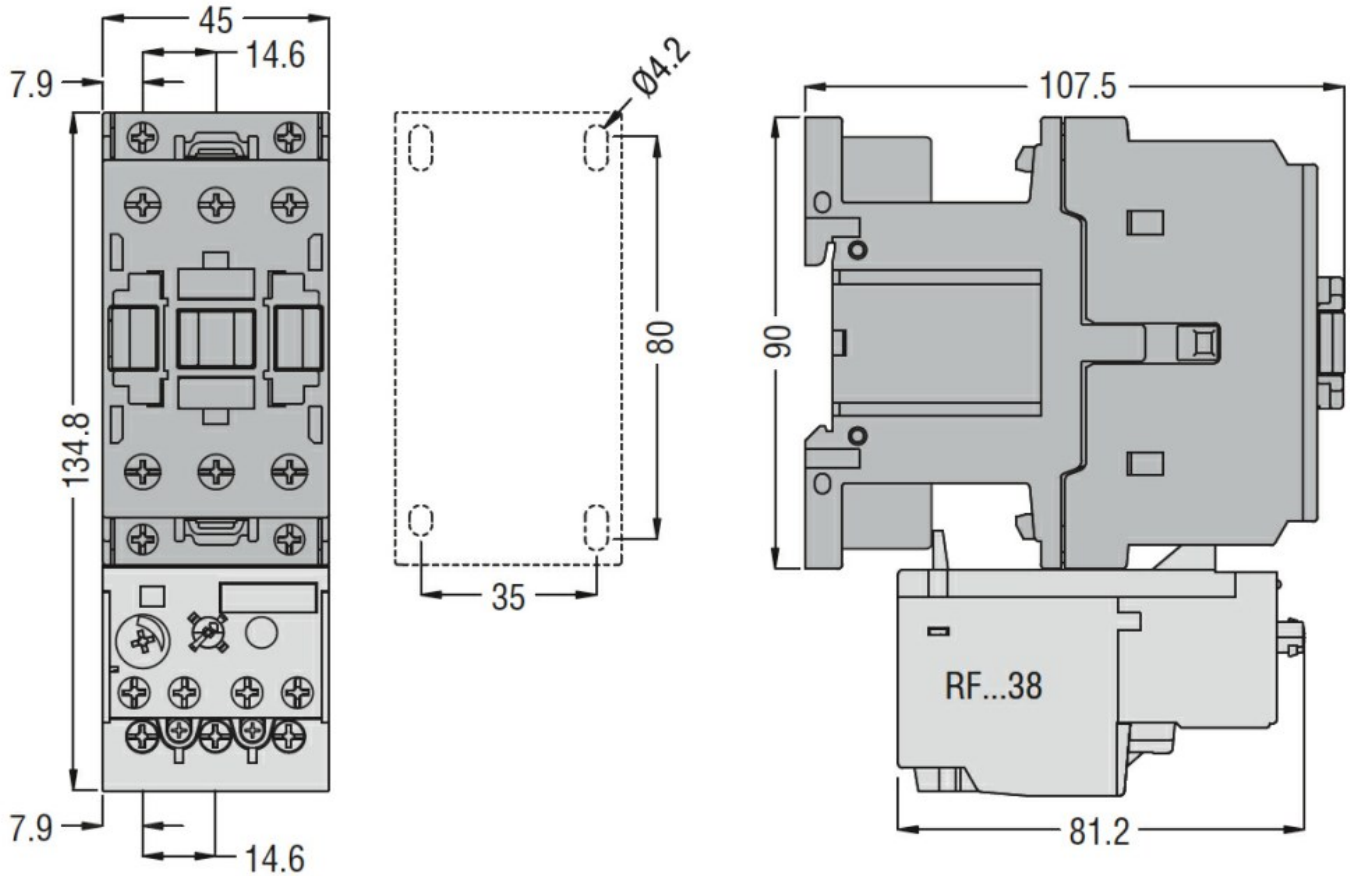
Temperature			
Operating temperature			
	min	°C	-50
	max	°C	70
Storage temperature			
	min	°C	-60
	max	°C	80

Max altitude m 3000

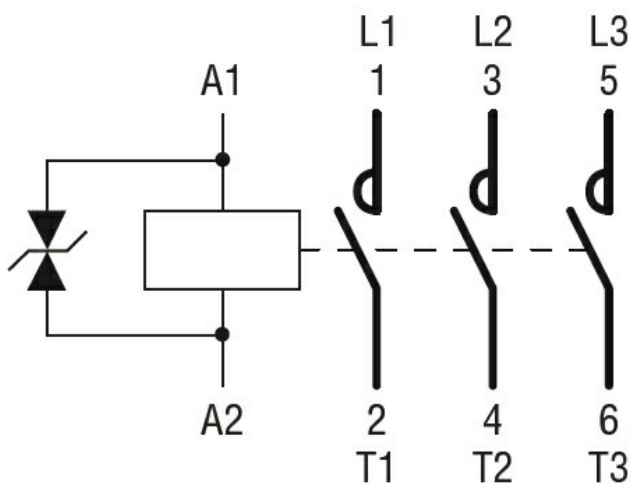
Resistance & Protection

Pollution degree 3

Dimensions



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

UL 60947-4-1

Certifications

CCC

cULus

EAC

ETIM 6 classification

EC000066 - Power contactor, AC switching