



Product designation			Power contactor
Product type designation			BFK32
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	A	56	
Rated operational power AC-6b (T≤40°C)	230V	kvar	14
	400V	kvar	25
	440...480V	kvar	27.5
	690V	kvar	30
Short-time allowable current for 10s (IEC/EN60947-1)	A	320	
Protection fuse	gG (IEC)	A	63
		A	320
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?	2	
Power dissipation per pole (average value)	Ith	W	6
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	lbin	0.59
	max	lbin	0.74
Max number of wires simultaneously connectable	Nr.	2	
Conductor section	AWG/Kcmil		
	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			
		min	mm²	1
		max	mm²	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	400
Conductor section		AWG/kcmil conductor section		
		max		6
Operations				
Mechanical life			cycles	20000000
Electrical life			cycles	1600000
Safety related data				
Performance level B10d according to EN/ISO 13489-1				
		rated load mechanical load	cycles cycles	400000 20000000
EMC compatibility				yes
AC coil operating				
Rated AC voltage at 50/60Hz			V	24
AC operating voltage		of 50/60Hz coil powered at 50Hz		
				pick-up
		min	%Us	80
		max	%Us	110
				drop-out
		min	%Us	20
		max	%Us	55
		of 50/60Hz coil powered at 60Hz		
				pick-up
		min	%Us	85
		max	%Us	110
				drop-out
		min	%Us	20
		max	%Us	55
AC average coil consumption 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
Max cycles frequency				
Mechanical operation			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

UL technical data

General USE

Contactor

AC current	A	56
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Ambient conditions

Temperature

Operating temperature

min	°C	-50
max	°C	70

Storage temperature

min	°C	-60
max	°C	80

Max altitude

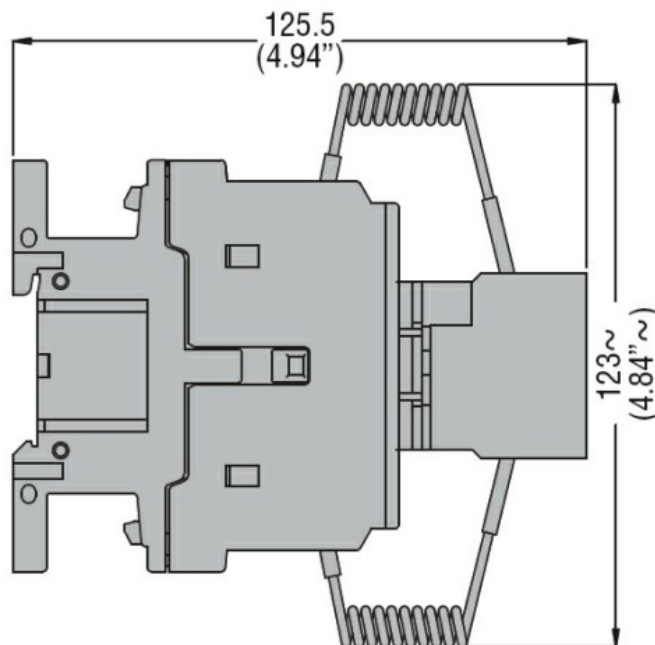
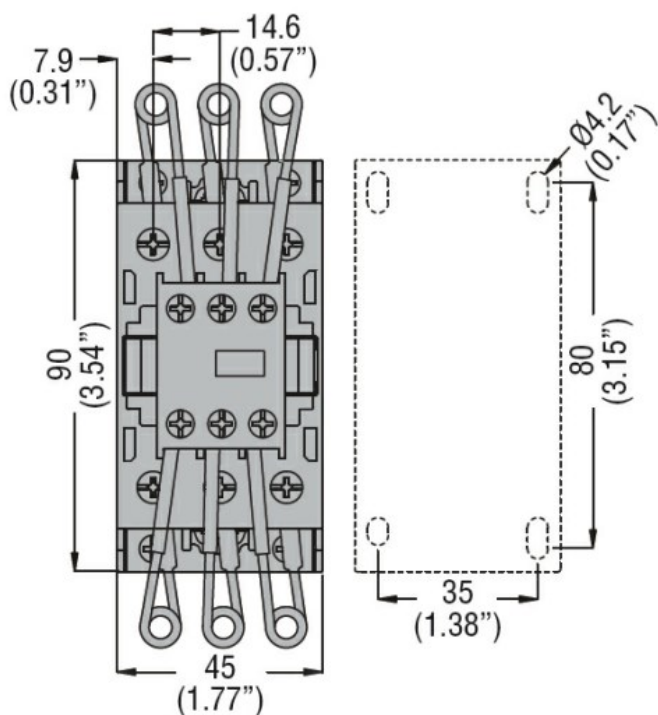
m	3000
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Resistance & Protection

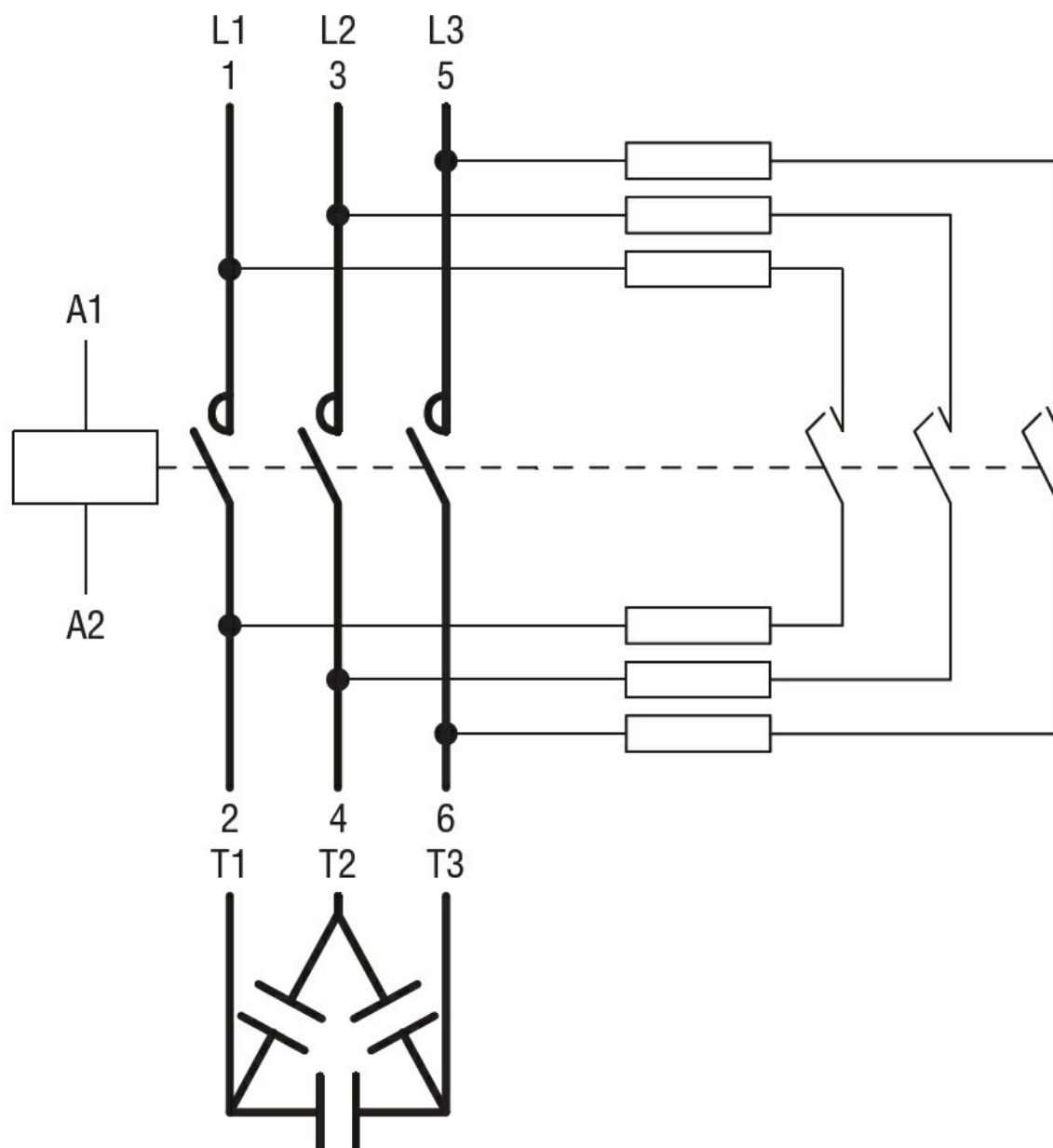
Pollution degree

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

Certificates

$$\frac{\text{CCC}}{\text{cULus}} = \text{EAC}$$

ETIM classification

ETIM 8.0

EC001079 -
Capacitor
contactor