



Product designation	Power contactor		
Product type designation	BFK32		
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
IEC Conventional free air thermal current I_{th}	A	56	
Rated operational power AC-6b ($T \leq 40^\circ C$)	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
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)	I_{th}	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	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	Vertical plan ±30°				
	allowable					
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	cycles	400000			
	mechanical load	cycles	20000000			
EMC compatibility						
AC coil operating						
Rated AC voltage at 60Hz	V	24				
AC operating voltage						
of 60Hz coil powered at 60Hz						
pick-up						
	min	%Us	80			
	max	%Us	110			
drop-out						
	min	%Us	20			
	max	%Us	55			
AC average coil consumption at 20°C						
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

Ambient conditions

Temperature

Operating temperature

	min	°C	-50
	max	°C	70

Storage temperature

	min	°C	-60
	max	°C	80

Max altitude

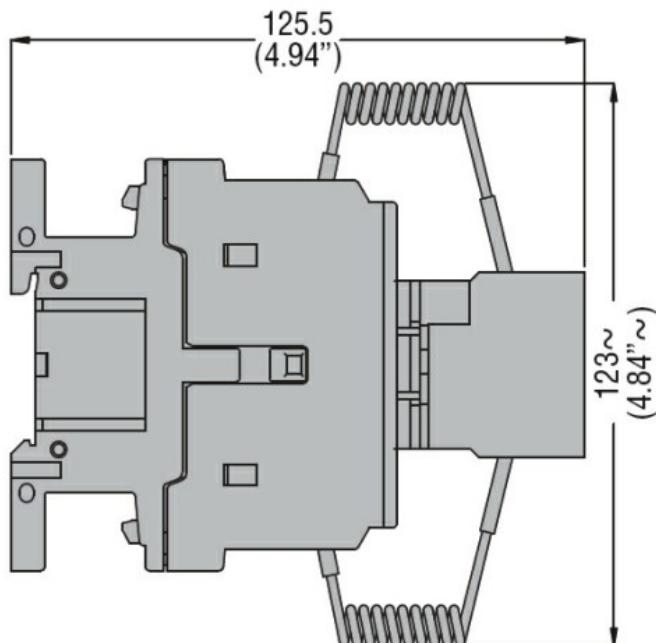
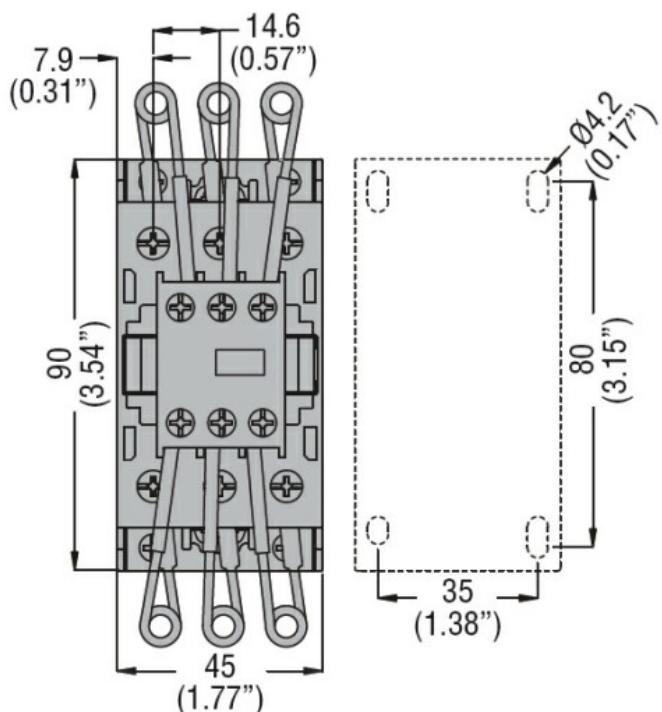
m 3000

Resistance & Protection

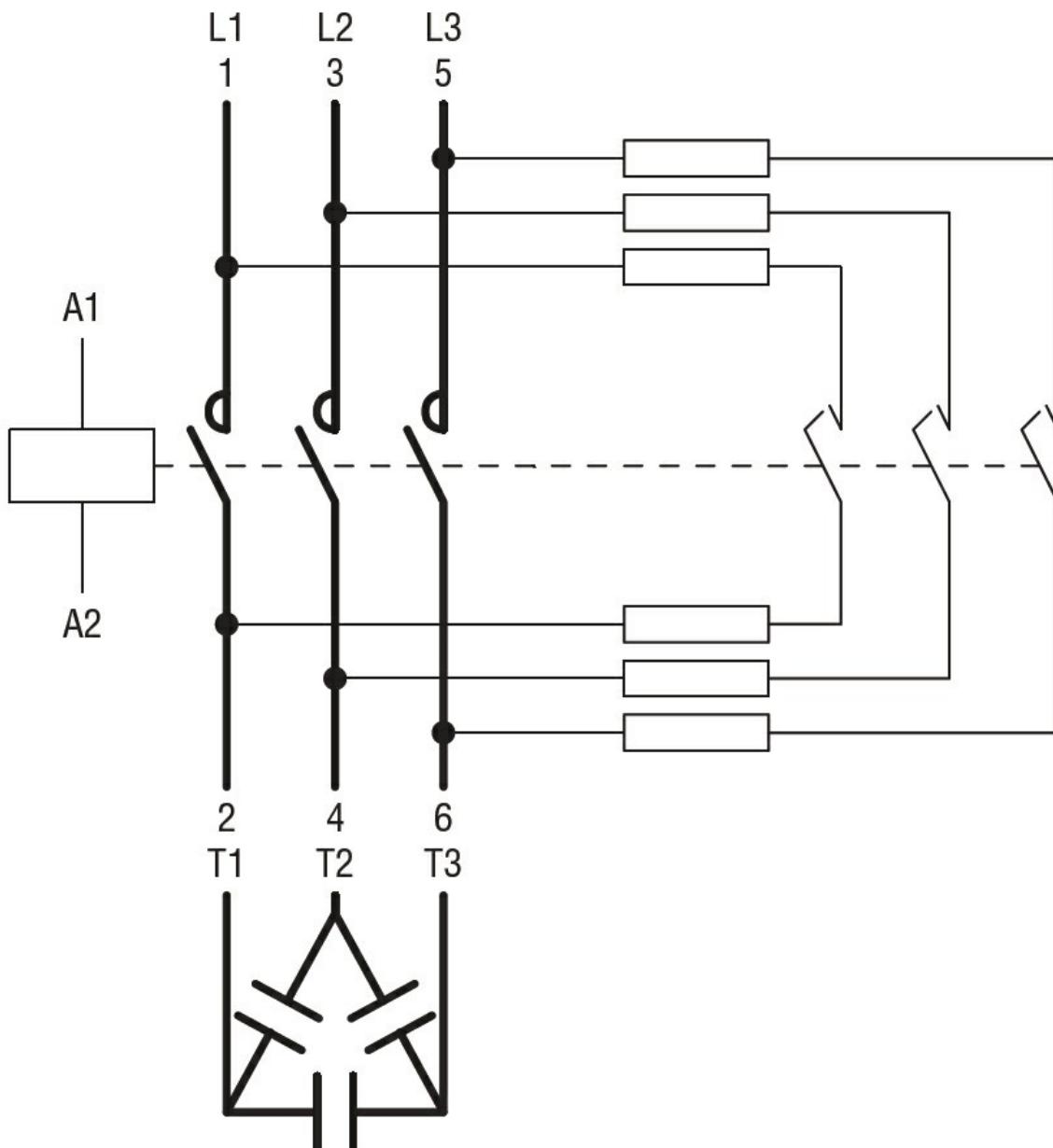
Pollution degree

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

Certificates

CCC

cULus

EAC

ETIM classification

ETIM 8.0

EC001079 -
Capacitor
contactor