



Product designation
Product type designation

Power contactor
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 Ω	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	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	400000
			cycles	20000000
EMC compatibility		yes		
AC coil operating				
Rated AC voltage at 60Hz			V	460
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

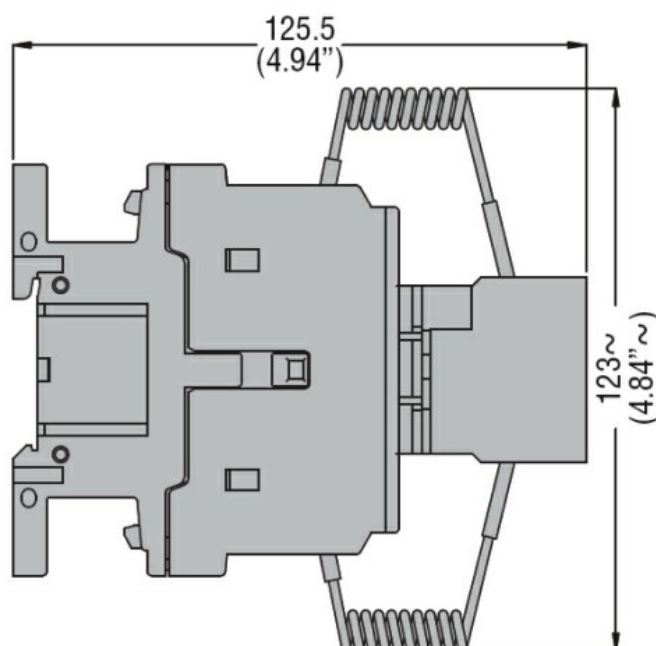
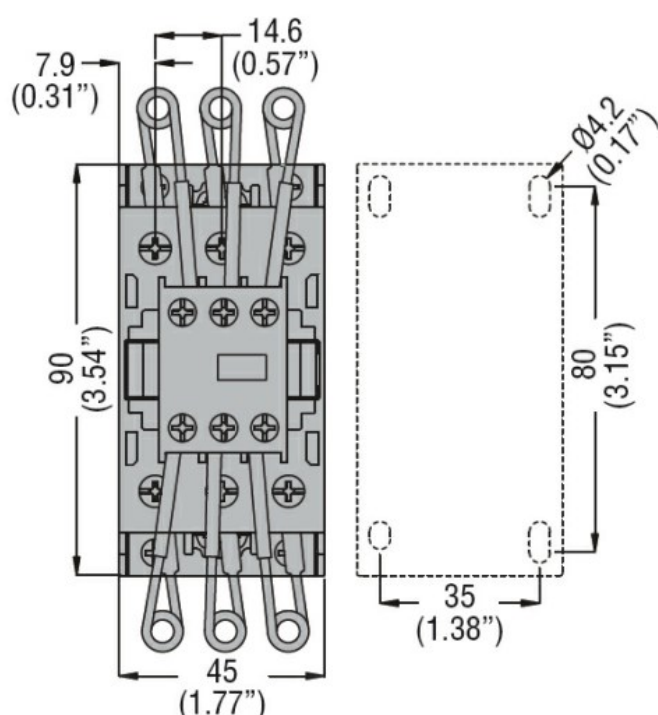
m 3000

Resistance & Protection

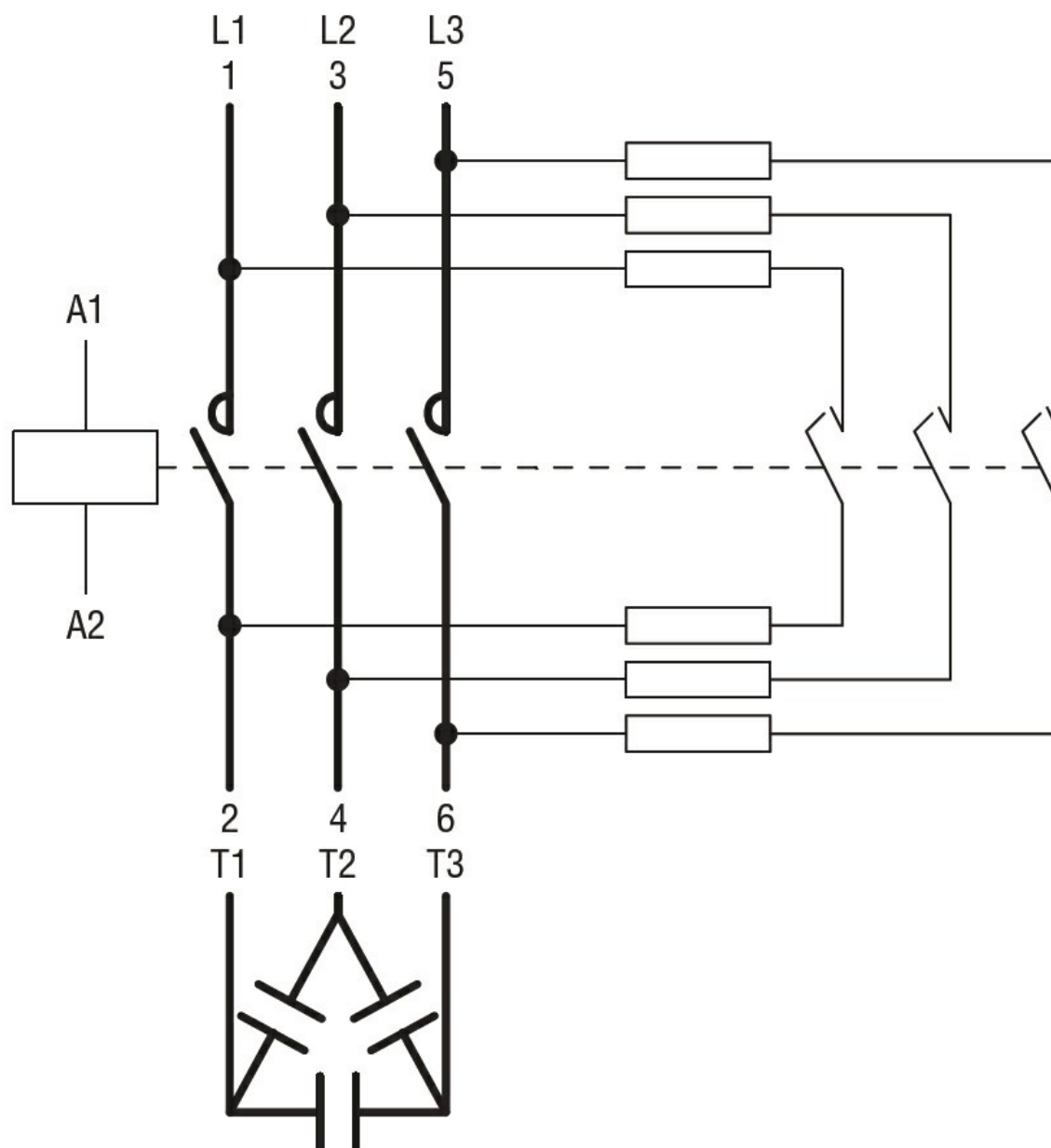
Pollution degree

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