



Product designation			Power contactor
Product type designation			BFK94
Contact characteristics			
Number of poles	Nr.	3	
Rated insulation voltage Ui IEC/EN	V	690	
Rated impulse withstand voltage Uimp	kV	8	
Operational frequency	min	Hz	25
	max	Hz	400
IEC Conventional free air thermal current Ith	A	115	
Rated operational power AC-6b (T≤40°C)	230V	kvar	34
	400V	kvar	60
	440...480V	kvar	75
	690V	kvar	80
Short-time allowable current for 10s (IEC/EN60947-1)	A	640	
Protection fuse	gG (IEC)	A	125
		A	950
Making capacity (RMS value)		A	950
Breaking capacity at voltage	440V	A	760
	500V	A	660
	690V	A	475
Resistance per pole (average value)	m?	0.6	
Power dissipation per pole (average value)	Ith	W	7.9
Tightening torque for terminals	min	Nm	4
	max	Nm	5
	min	Ibin	2.95
	max	Ibin	3.69
Tightening torque for coil terminal	min	Nm	0.8
	max	Nm	1
	min	Ibin	0.8
	max	Ibin	0.74
Max number of wires simultaneously connectable	Nr.	2	
Conductor section	AWG/Kcmil		
	max		2
Flexible w/o lug conductor section	min	mm²	1.5
	max	mm²	35
Flexible c/w lug conductor section	min	mm²	1.5

Power terminal protection according to IEC/EN 60529		max	mm ²	35
		IP20 front		
Mechanical features				
Operating position		normal allowable		Vertical plan ±30°
Fixing		Screw / DIN rail 35mm		
Weight		g		1090
Conductor section		AWG/kcmil conductor section		
		max		2
Operations				
Mechanical life		cycles		15000000
Electrical life		cycles		400000
Safety related data				
Performance level B10d according to EN/ISO 13489-1		rated load mechanical load		cycles 400000 cycles 15000000
EMC compatibility		yes		
AC coil operating				
Rated AC voltage at 50/60Hz		V		110
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 holding		VA 210 VA 15
		of 50/60Hz coil powered at 60Hz		
		in-rush holding		VA 195 VA 13
		of 60Hz coil powered at 60Hz		
		in-rush holding		VA 210 VA 15
Dissipation at holding ≤20°C 50Hz		W		5
Max cycles frequency				
Mechanical operation		cycles/h		3600
Operating times				
Average time for Us control in AC		Closing NO		

in DC	Opening NO	min	ms	12
		max	ms	28
		min	ms	8
		max	ms	22
	Closing NO	min	ms	40
		max	ms	85
	Opening NO	min	ms	20
		max	ms	55

UL technical data

General USE

Contactor

AC current A 115

Ambient conditions

Temperature

Operating temperature

min °C -50
max °C 70

Storage temperature

min °C -60
max °C 80

Max altitude

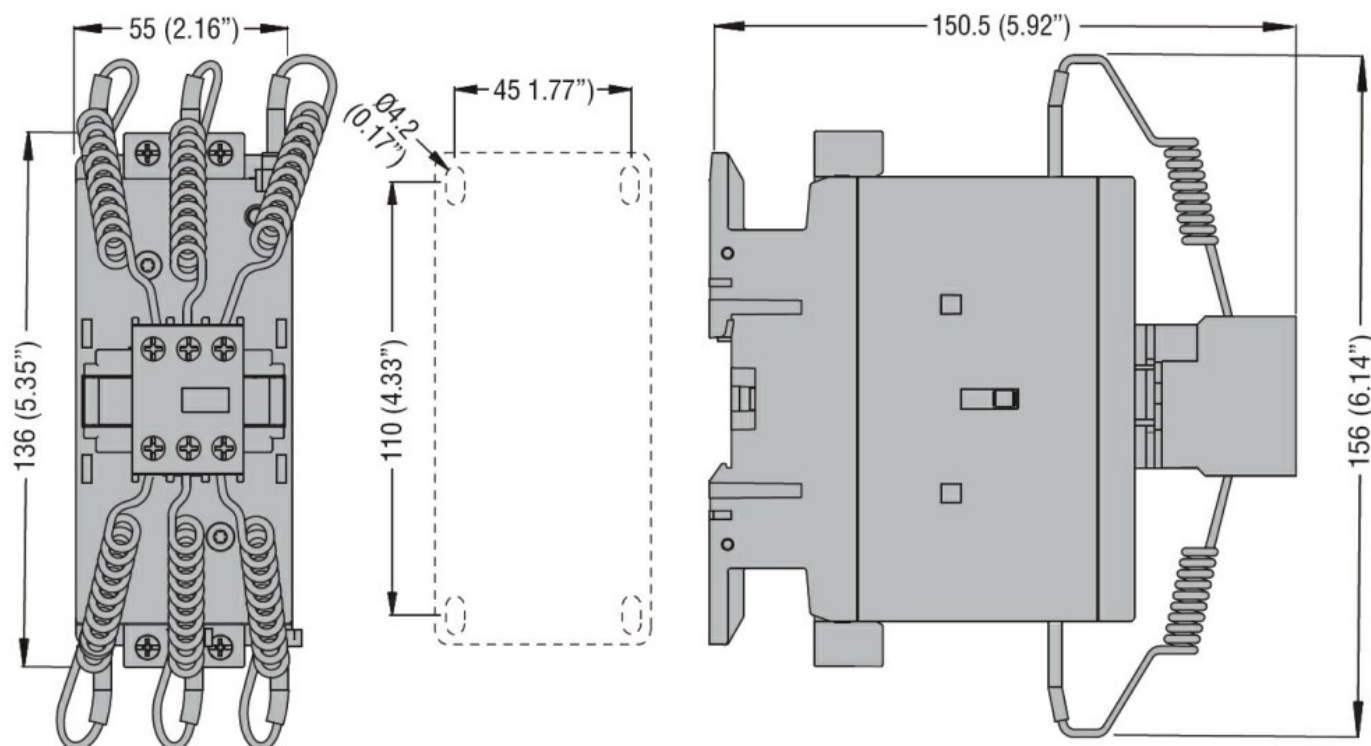
m 3000

Resistance & Protection

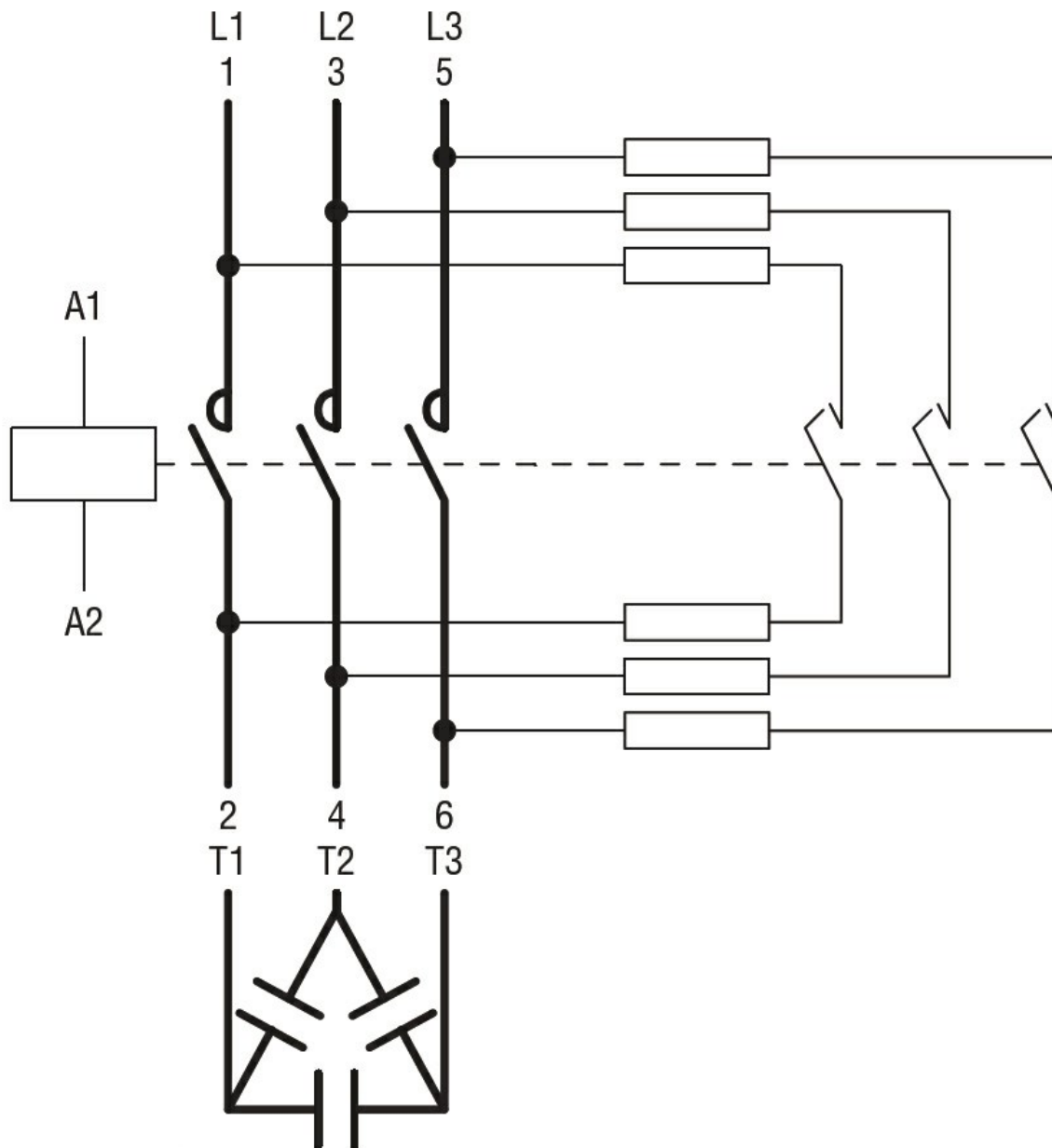
Pollution degree

3

Dimensions



Wiring diagrams



Certifications and compliance

Compliance

IEC/EN 60947-1
IEC/EN 60947-4-1

ETIM classification

ETIM 8.0

EC001079 -
Capacitor
contactor