



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
Making capacity (RMS value)		A	950
Breaking capacity at voltage			
	440V	A	760
	500V	A	660
	690V	A	475
Resistance per pole (average value)		mΩ	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

	max	mm²	35
Power terminal protection according to IEC/EN 60529			
IP20 front			
Mechanical features			
Operating position			
	normal allowable		Vertical plan ±30°
Fixing			
Screw / DIN rail 35mm			
Weight		g	1090
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 cycles	400000 15000000
EMC compatibility			
yes			
AC coil operating			
Rated AC voltage at 50/60Hz		V	48
AC operating voltage			
of 50/60Hz coil powered at 50Hz pick-up		min max	%Us %Us 80 110
drop-out		min max	%Us %Us 20 55
of 50/60Hz coil powered at 60Hz pick-up		min max	%Us %Us 85 110
drop-out		min max	%Us %Us 20 55
AC average coil consumption at 20°C			
of 50/60Hz coil powered at 50Hz		in-rush holding	VA VA 210 15
of 50/60Hz coil powered at 60Hz		in-rush holding	VA VA 195 13
of 60Hz coil powered at 60Hz		in-rush holding	VA VA 210 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		min max	ms ms 12 28
Opening NO			

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

UL technical data

Rated operational voltage AC (UL)	V	600
General USE		

Contactor

AC current A 115

Ambient conditions

Temperature

Operating temperature

min	°C	-50
max	°C	70

Storage temperature

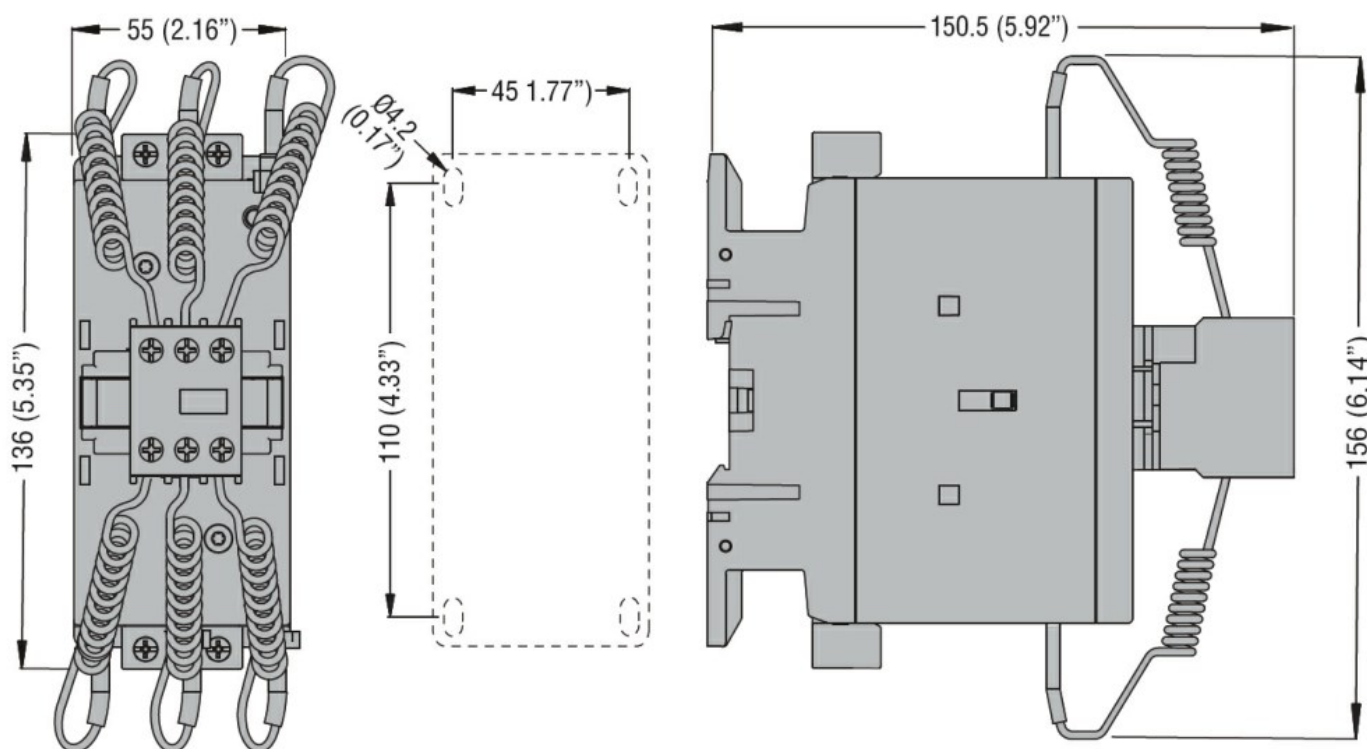
min	°C	-60
max	°C	80

Max altitude	m	3000
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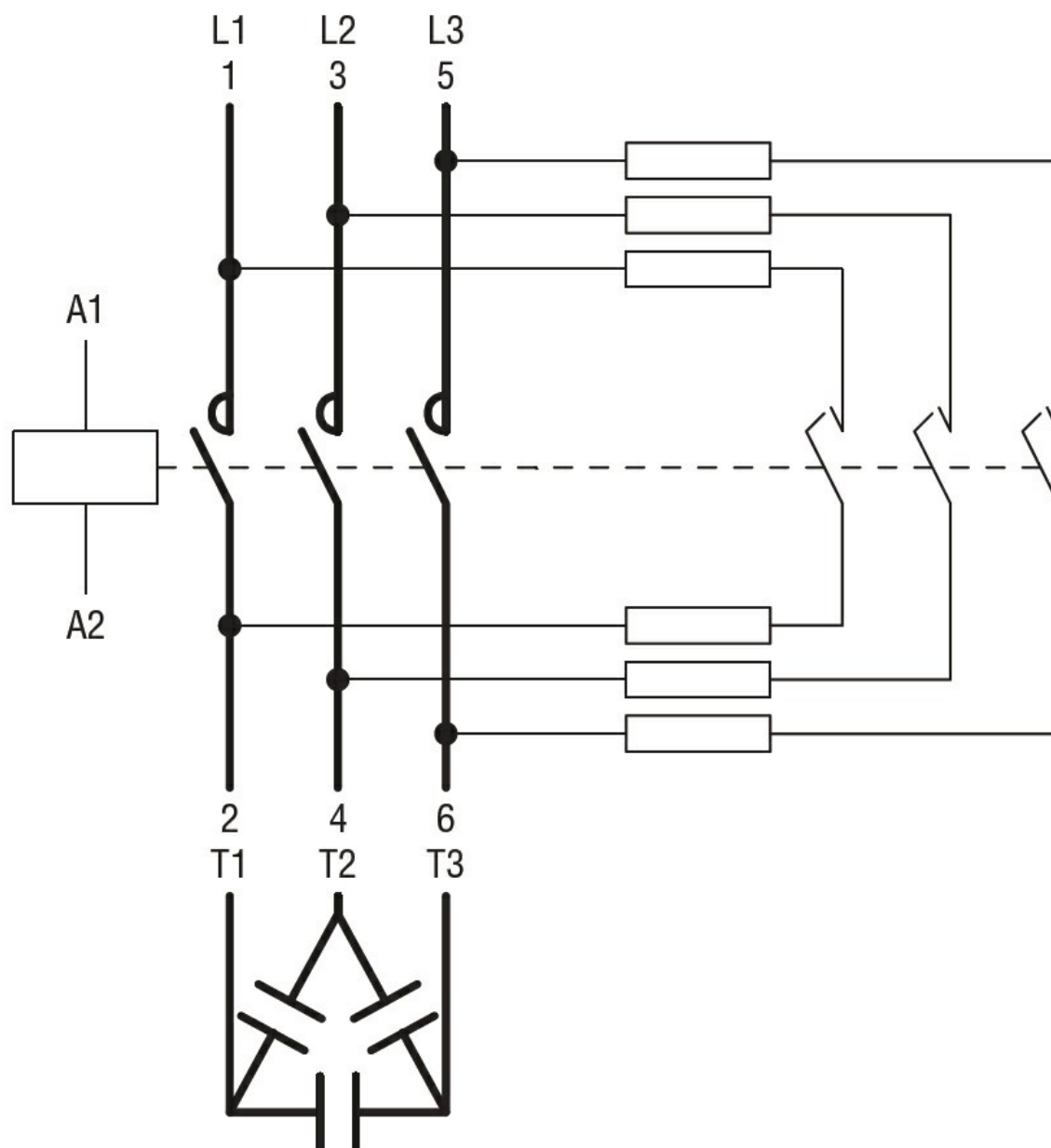
Resistance & Protection

Pollution degree	3
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Dimensions



Wiring diagrams



Certifications and compliance

Compliance

CSA C22.2 n° 60947-1

CSA C22.2 n° 60947-4-1

IEC/EN/BS 60947-1

IEC/EN/BS 60947-4-1

UL 60947-1

UL 60947-4-1

ETIM classification

ETIM 8.0

EC001079 -
Capacitor
contactor