



Product designation Power contactor  
Product type designation BFK94

### Contact characteristics

Number of poles	Nr.	3
Rated insulation voltage $U_i$ IEC/EN	V	690
Rated impulse withstand voltage $U_{imp}$	kV	8
Operational frequency	min Hz	25
	max Hz	400
IEC Conventional free air thermal current $I_{th}$	A	115
Rated operational power AC-6b ( $T \leq 40^\circ C$ )	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)	$I_{th}$ W	7.9
Tightening torque for terminals	min Nm	4
	max Nm	5
	min lbin	2.95
	max lbin	3.69
Tightening torque for coil terminal	min Nm	0.8
	max Nm	1
	min lbin	0.8
	max lbin	0.74
Max number of wires simultaneously connectable	Nr.	2
Conductor section	AWG/Kcmil	
	max	2
Flexible w/o lug conductor section	min mm <sup>2</sup>	1.5
	max mm <sup>2</sup>	35
Flexible c/w lug conductor section	min mm <sup>2</sup>	1.5

	max	mm <sup>2</sup>	35
Power terminal protection according to IEC/EN 60529			IP20 front
<b>Mechanical features</b>			
Operating position	normal allowable		Vertical plan ±30°
Fixing			Screw / DIN rail 35mm
Weight		g	1090
<b>Operations</b>			
Mechanical life		cycles	15000000
Electrical life		cycles	400000
<b>Safety related data</b>			
Performance level B10d according to EN/ISO 13489-1			
	rated load mechanical load	cycles	400000
		cycles	15000000
EMC compatibility			yes
<b>AC coil operating</b>			
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	VA	210
	holding	VA	15
of 50/60Hz coil powered at 60Hz	in-rush	VA	195
	holding	VA	13
of 60Hz coil powered at 60Hz	in-rush	VA	210
	holding	VA	15
Dissipation at holding ≤20°C 50Hz		W	5
<b>Max cycles frequency</b>			
Mechanical operation		cycles/h	3600
<b>Operating times</b>			
Average time for Us control			
in AC			
Closing NO	min	ms	12
	max	ms	28
Opening NO			

in DC		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

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

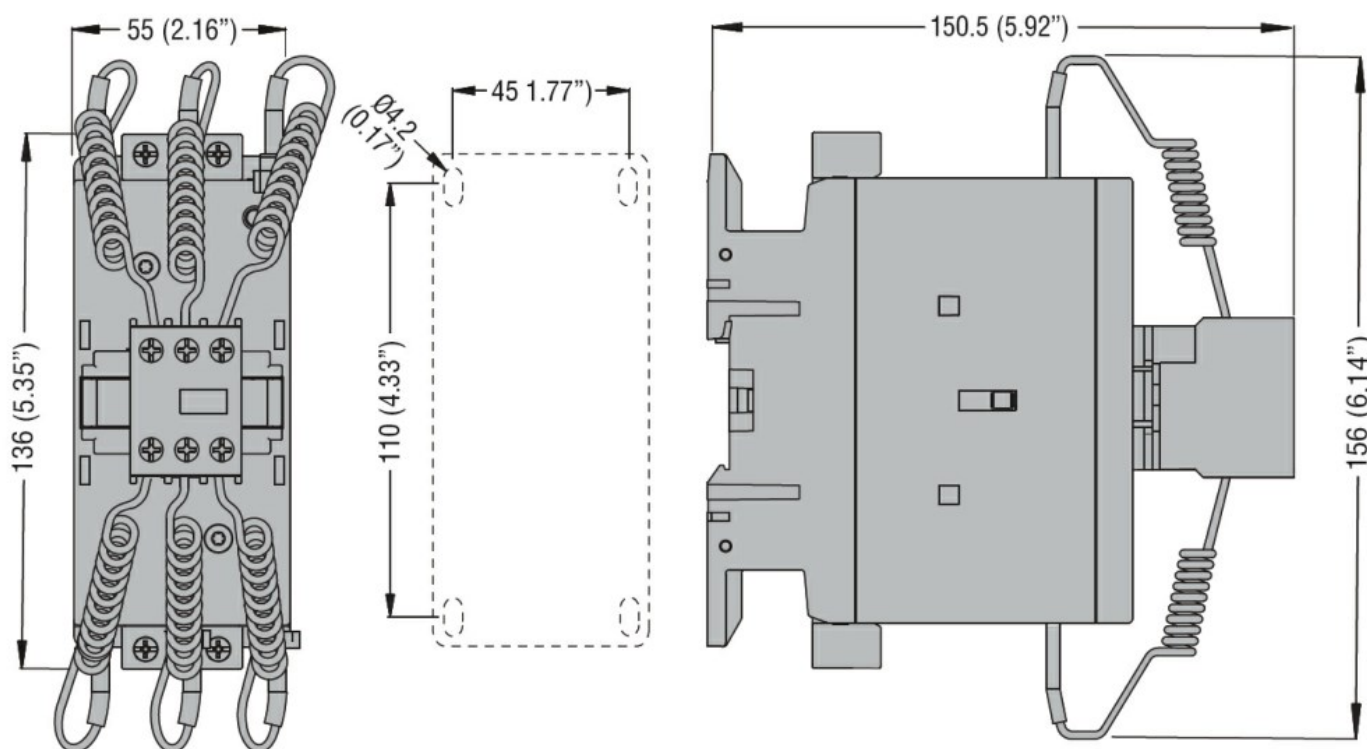
min	°C	-60
max	°C	80

Max altitude	m	3000
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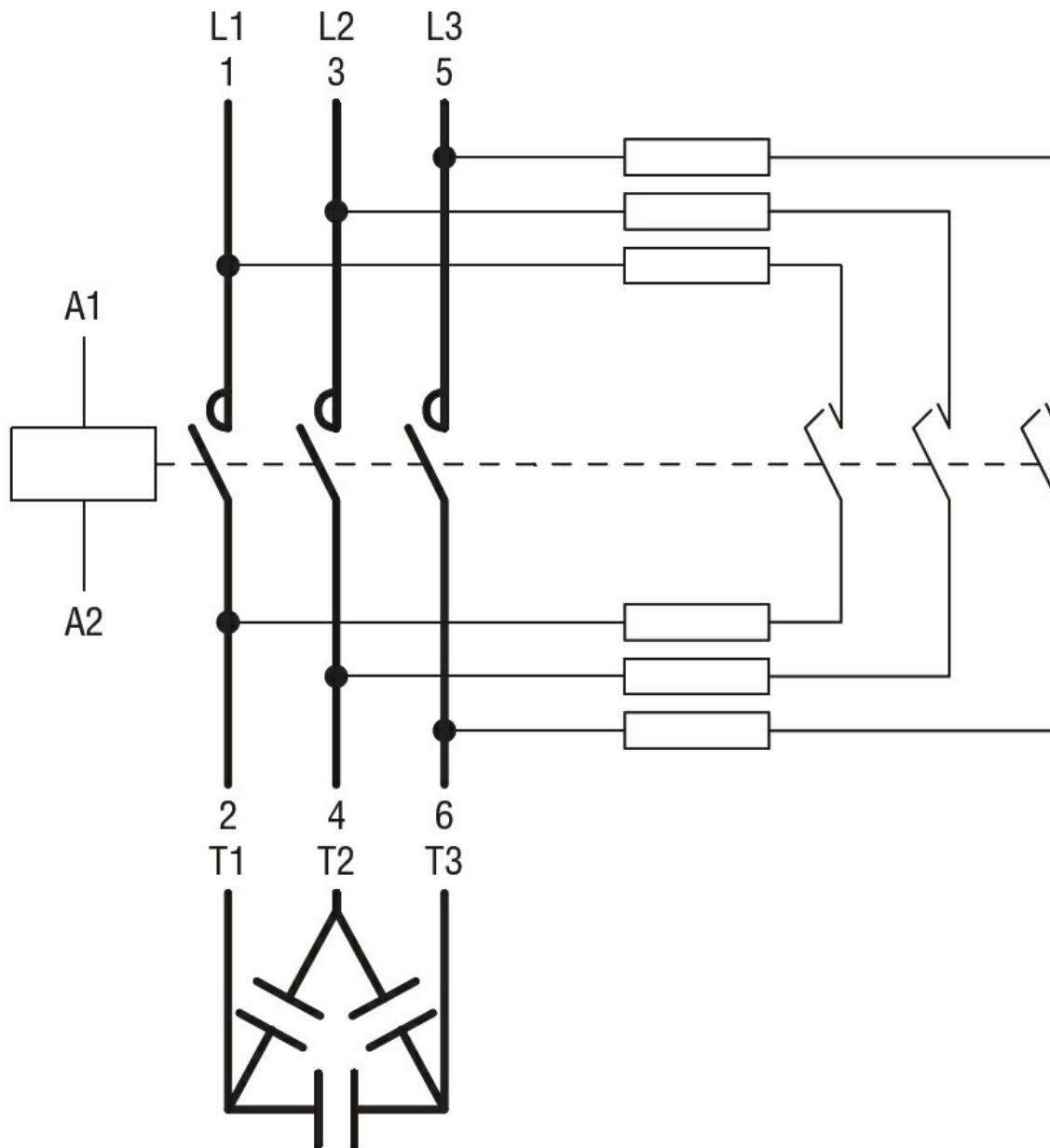
#### Resistance & Protection

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