



Product designation				Power contactor	
Product type designation				BFK94	
<b>Contact characteristics</b>					
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		
		A	950		
Making capacity (RMS value)			950		
Breaking capacity at voltage	440V	A	760		
	500V	A	660		
	690V	A	475		
Resistance per pole (average value)			m $\Omega$	0.6	
Power dissipation per pole (average value)	lth	W	7.9		
	min	Nm	4		
Tightening torque for terminals	max	Nm	5		
	min	Ibin	2.95		
	max	Ibin	3.69		
	min	Nm	0.8		
Tightening torque for coil terminal	max	Nm	1		
	min	Ibin	0.8		
	max	Ibin	0.74		
	min	Nm	0.8		
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
Conductor section	AWG/kcmil conductor section	max		2
<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 cycles	400000 15000000
EMC compatibility				yes
<b>AC coil operating</b>				
Rated AC voltage at 50/60Hz			V	24
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			
		min	ms	8
		max	ms	22
<hr/>				
	in DC			
	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

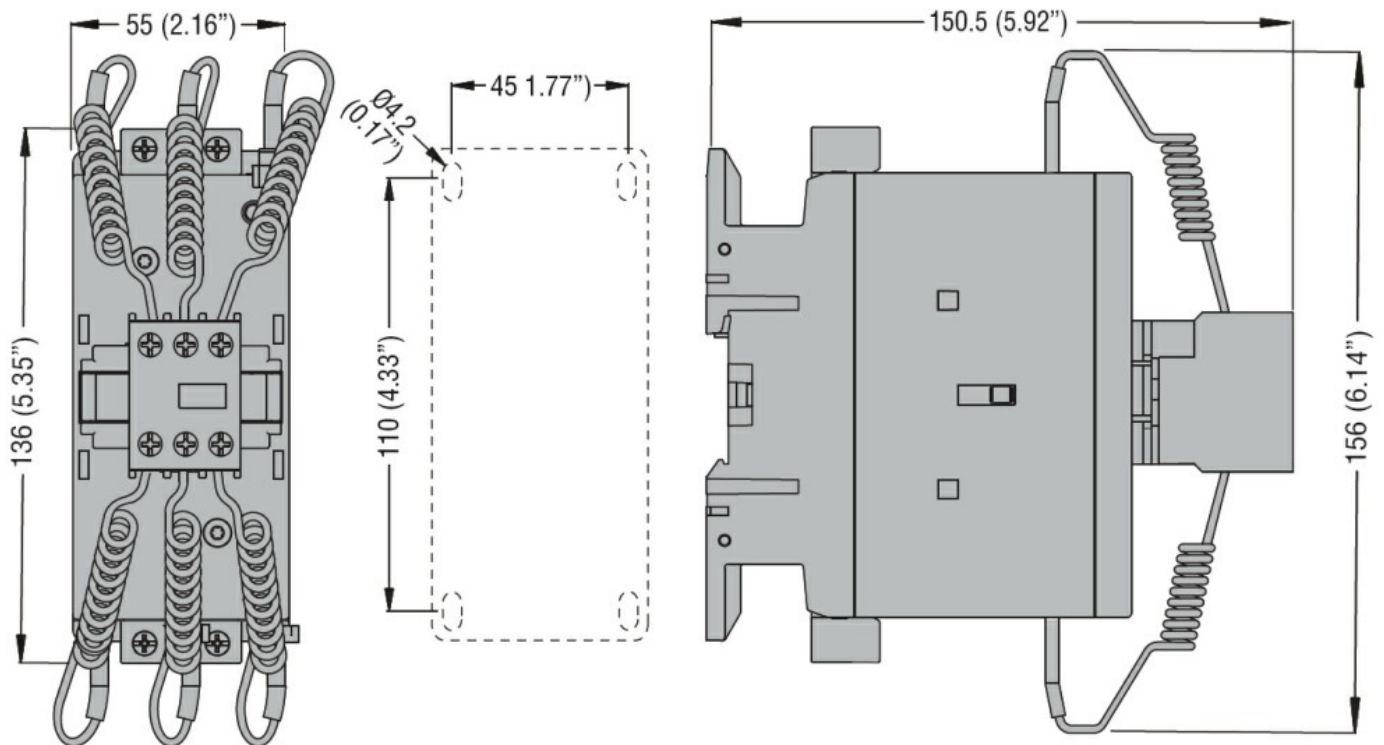
m 3000

**Resistance & Protection**

Pollution degree

3

**Dimensions**



**Wiring diagrams**



**Certifications and compliance**

Compliance

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