



Product designation

Power contactor

Product type designation

BFK80

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	30
	400V	kvar	50
	440...480V	kvar	56
	690V	kvar	65
Short-time allowable current for 10s (IEC/EN60947-1)		A	640
Protection fuse			
	gG (IEC)	A	125
Making capacity (RMS value)		A	800
Breaking capacity at voltage			
	440V	A	640
	500V	A	625
	690V	A	456
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
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	230
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		

CONTACTOR PARA CORRECCIÓN DEL FACTOR DE POTENCIA CON CIRCUITO DE CONTROL EN AC, TIPO BFK (CON RESISTENCIAS LIMITADORAS), POTENCIA NOMINAL MÁXIMA (IEC) 400V = 50KVAR, BOBINA 230VAC 50/60HZ

	Opening NO	min	ms	12
		max	ms	28
		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

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

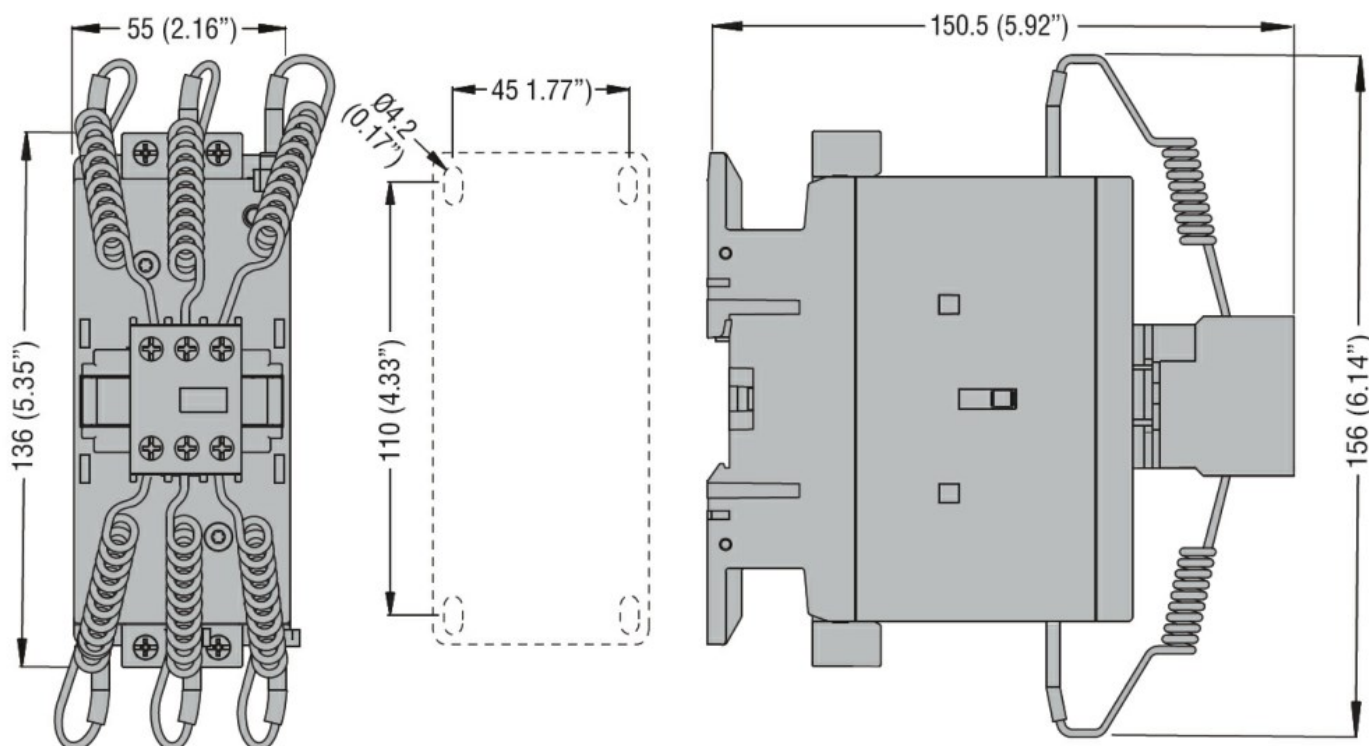
m 3000

Resistance & Protection

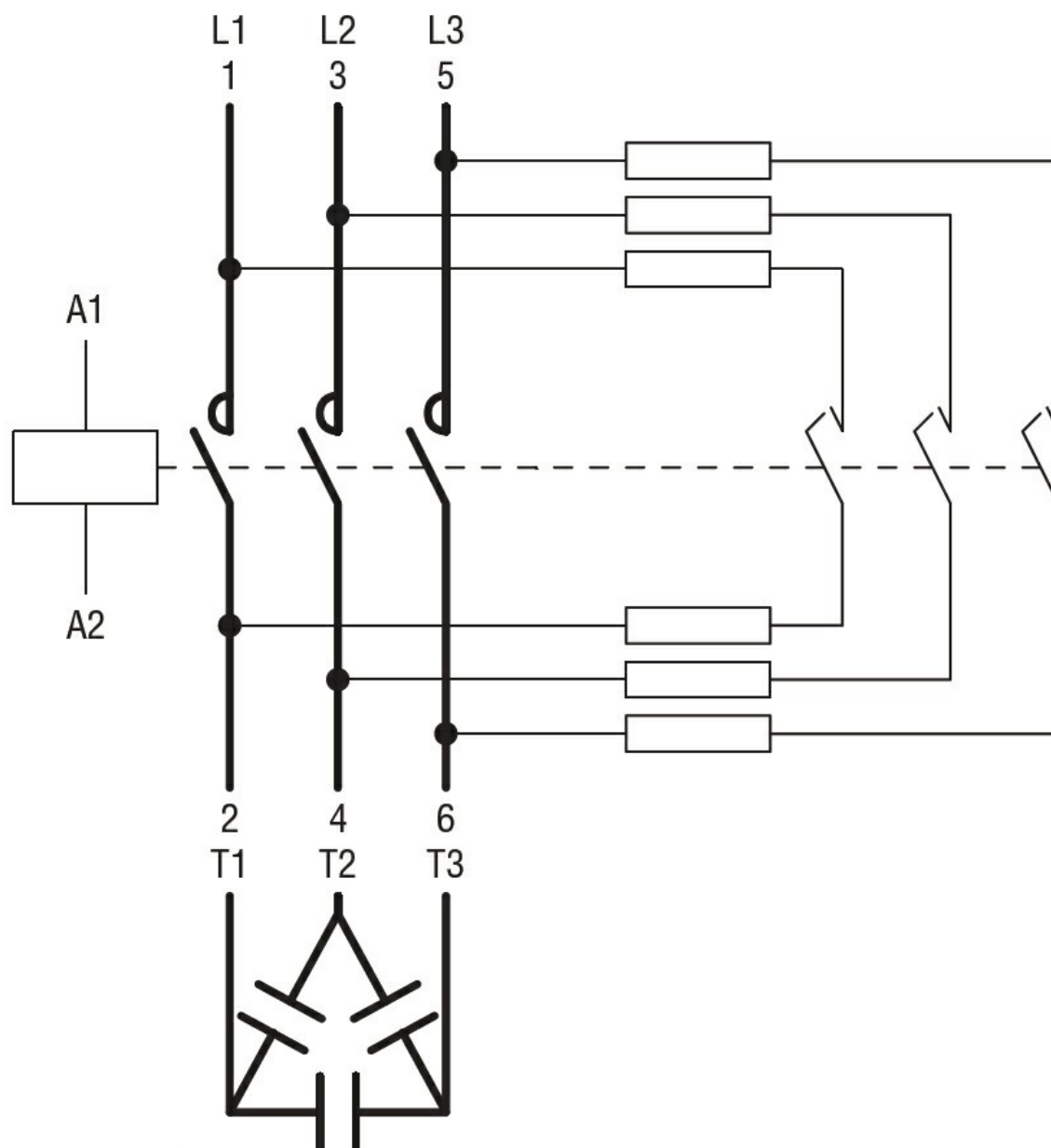
Pollution degree

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

Certificates

CCC
cULus

ETIM classification

ETIM 8.0

EC001079 -
Capacitor
contactor