



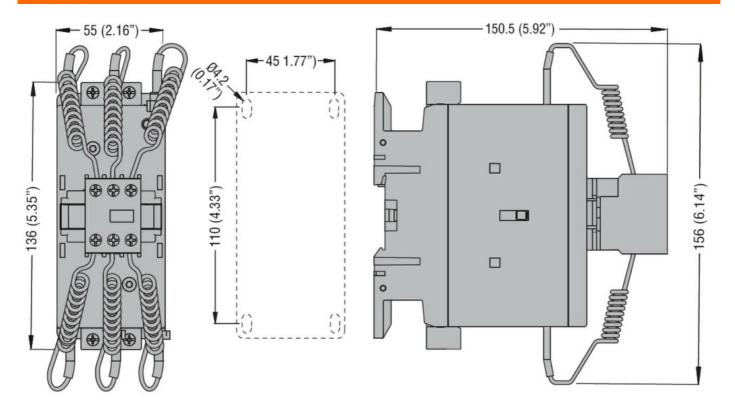
Product designation			Power contactor
Product type designation			BFK50
Contact characteristics			
Number of poles		Nr.	3
Rated insulation voltage Ui IEC/EN		V	690
Rated impulse withstand voltage Uimp		kV	8
Operational frequency			
	min	Hz	25
	max	Hz	400
IEC Conventional free air thermal current Ith		Α	90
Rated operational power AC-6b (T≤40°C)			
	230V	kvar	22
	400V	kvar	40
	440480V	kvar	41
	690V	kvar	46
Short-time allowable current for 10s (IEC/EN60947-1)		Α	400
Protection fuse			
	gG (IEC)	Α	80
Making capacity (RMS value)		Α	500
Breaking capacity at voltage			
	440V	Α	400
	500V	Α	352
	690V	Α	312
Resistance per pole (average value)		mΩ	0.8
Power dissipation per pole (average value)			
	Ith	W	6.5
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	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 a	according to EN/ISO 1	3489-1			
	ŭ		rated load	cycles	400000
			mechanical load	cycles	15000000
EMC compatibility				•	yes
AC coil operating					
Rated AC voltage at 60Hz				V	220
AC operating voltage					
	60Hz coil powered at	: 60Hz			
.	00.12 00.1 poworou at	pick-up			
		pront dip	min	%Us	80
			max	%Us	110
		drop-out	max	7003	110
		drop out	min	%Us	20
			max	%Us	55
AC average coil consumpt	tion at 20°C		тах	7000	
	60Hz coil powered at	- 60Hz			
OI.	oor iz con powered at	. 001 12	in-rush	VA	210
			holding	VA	15
Dissipation at holding ≤20°	°C 50U-7		Holding	W	5
	C 50HZ			VV	5
Max cycles frequency				ovoloo/b	2600
Mechanical operation				cycles/h	3600
Operating times	. 1				
Average time for Us contro					
ın	AC	0			
		Closing NO			40
			min	ms	12
		0 1 110	max	ms	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					
Co	ontactor				

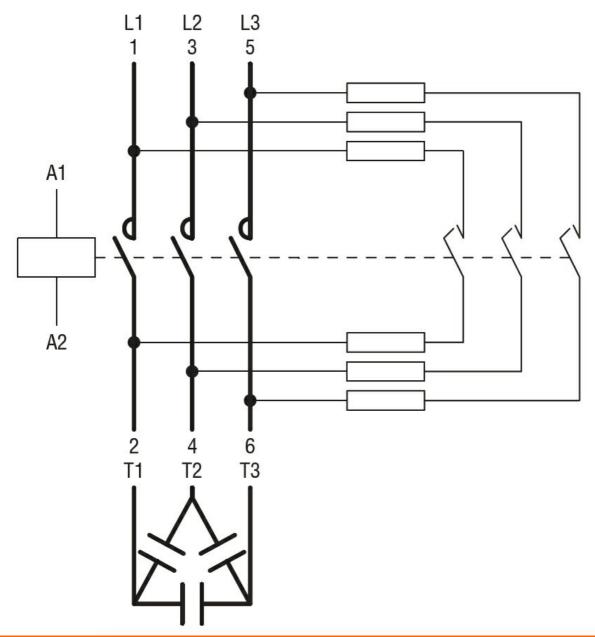


		AC current	Α	90
Ambient conditions				
Temperature				
	Operating temperature			
		min	°C	-50
		max	°C	70
	Storage temperature			
		min	°C	-60
		max	°C	80
Max altitude			m	3000
Resistance & Protect	tion			
Pollution degree				3
Dimensions				



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