



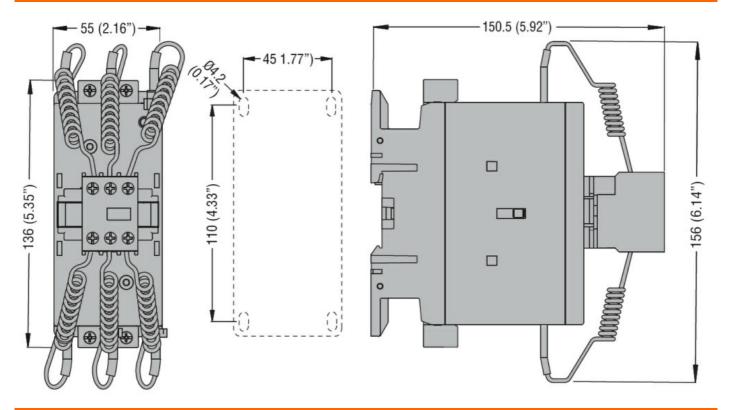
Product designation				Power contactor
Product type designate				BFK50
Contact characteristic	S .			
Number of poles	18.150/51		Nr.	3
Rated insulation volta	-		V	690
Rated impulse withsta			kV	8
Operational frequency	y			
		min	Hz	25
		max	Hz	400
	e air thermal current Ith		Α	90
Rated operational pov	wer AC-6b (T≤40°C)			
		230V	kvar	22
		400V	kvar	40
		440480V	kvar	41
	(690V	kvar	46
	current for 10s (IEC/EN60947-1)		Α	400
Protection fuse				
		gG (IEC)	Α	80
Making capacity (RMS	·		A	500
Breaking capacity at v	voltage			
		440V	Α	400
		500V	Α	352
		690V	A	312
	istance per pole (average value) mΩ		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	Ibin	3.69
Tightening torque for	coil terminal			
		min	Nm	0.8
		max	Nm	1
		min	lbin	0.8
		max	Ibin	0.74
	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 1	3489-1			
		rated load	cycles	400000
		mechanical load	cycles	15000000
EMC compatibility				yes
AC coil operating				·
Rated AC voltage at 60Hz			V	48
AC operating voltage				
of 60Hz coil powered at	60Hz			
	pick-up			
	F	min	%Us	80
		max	%Us	110
	drop-out		,,,,,	
	a. op 0 a.	min	%Us	20
		max	%Us	55
AC average coil consumption at 20°C				
of 60Hz coil powered at	60Hz			
5. 55. 1 <u>2</u> 55. po 1. 5. 5.		in-rush	VA	210
		holding	VA	15
Dissipation at holding ≤20°C 50Hz			W	5
Max cycles frequency				
Mechanical operation			cycles/h	3600
Operating times			0,0100/11	0000
Average time for Us control				
in AC				
III AG	Closing NO			
	Closing NO	min	ms	12
		max	ms	28
	Opening NO	IIIdX	1113	20
	Opening NO	min	ms	8
		max	ms	22
in DC		παλ	1113	22
III DO	Closing NO			
	Closing NO	min	ms	40
		max	ms	85
	Opening NO	IIIdX	1113	00
	Opening NO	min	me	20
		min	ms ms	55
UL technical data		max	ms	บบ
			\/	600
Rated operational voltage AC (UL)			V	600
General USE				
Contactor				

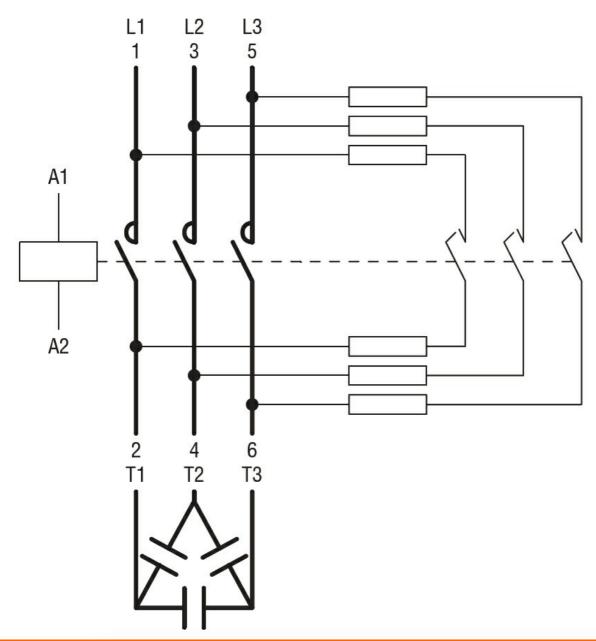


		AC current	Α	90
Ambient conditions				
Temperature				
	Operating temperature			
		min	°C	-50
		max	°C	70
	Storage temperature			
		min	°C	-60
		max	°C	80
Max altitude			m	3000
Resistance & Protect	tion			
Pollution degree				3
Dimensions				



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