



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	Ibin	0.74
Max number of wires simultaneously connectable		Nr.	2
Conductor section			
AWG/Kcmil			
	max		2
Flexible w/o lug conductor section		•	4.5
	min	mm²	1.5
	max	mm²	35
Flexible c/w lug conductor section	min	mm²	1.5



			max	mm²	35
Power terminal protect	ion according to IEC/l	EN 60529			IP20 front
Mechanical features					
Operating position			normal allowable		Vertical plan ±30°
Fixing			unowabic		Screw / DIN rail 35mm
Weight				g	1090
Conductor section					
	AWG/kcmil conducto	or section	max		2
Operations					
Mechanical life				cycles	15000000
Electrical life				cycles	400000
Safety related data					
Performance level B10	d according to EN/IS	O 13489-1			
			rated load	cycles	400000
			mechanical load	cycles	15000000
EMC compatibility					yes
AC coil operating	N. 1			.,	575
Rated AC voltage at 60)Hz			V	575
AC operating voltage	(001 1 "				
	of 60Hz coil powered				
		pick-up	min	%Us	80
			max	%Us %Us	110
		drop-out	IIIdA	/003	110
		drop out	min	%Us	20
			max	%Us	55
AC average coil consu	mption at 20°C				
J	of 60Hz coil powered	d at 60Hz			
	·		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					
Average time for Us co					
	in AC	Closing NO			
		Closing NO	min	me	12
			max	ms ms	28
		Opening NO	IIIdA	1113	20
		opolinig i to	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					

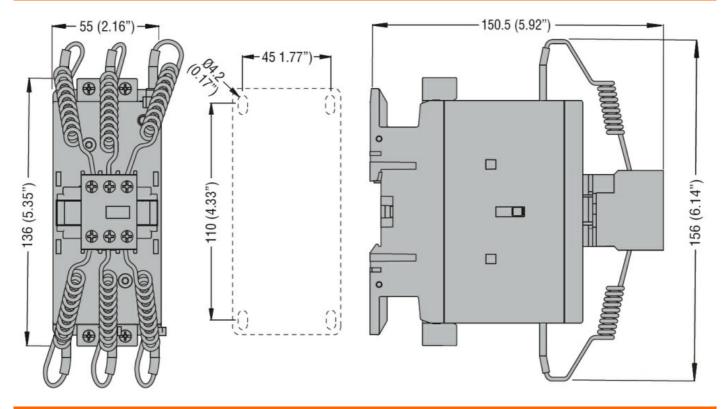




General USE

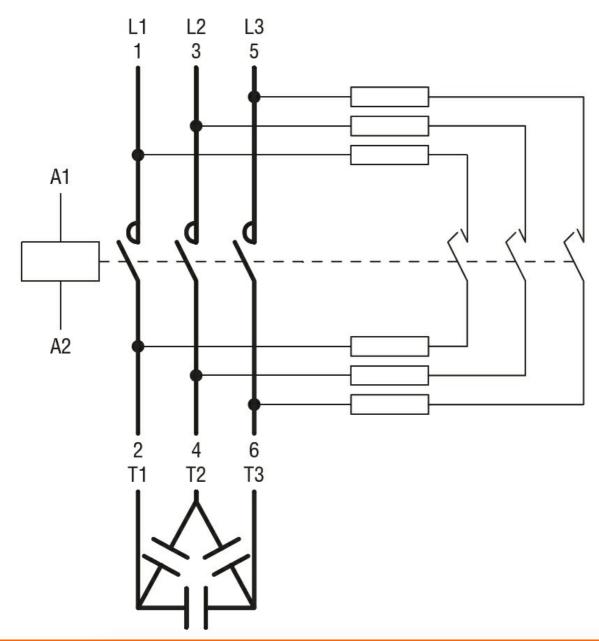
Contactor

		AC current	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	ion			
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