



Product designation				Power contactor
Product type designa	tion			BFK50
Contact characteristic	os en			
Number of poles			Nr.	3
Rated insulation volta	ge Ui IEC/EN		V	690
Rated impulse withstand voltage Uimp			kV	8
Operational frequency	у			
		min	Hz	25
		max	Hz	400
IEC Conventional free	e air thermal current Ith		Α	90
Rated operational por	wer 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)	000 V	A	400
Protection fuse	04.101.101.100 (1E0/E11000+1-1)			700
i iotection iuse		aC (IEC)	۸	80
Making consoits / DMG	2 value)	gG (IEC)	A	
Making capacity (RMS	•		Α	500
Breaking capacity at v	voltage	4.40\/		400
		440V	A	400
		500V	Α	352
		690V	Α	312
Resistance per pole (average value)			mΩ	0.8
Power dissipation per	r 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	y			
23	AWG/Kcmil			
	0,10,1111	max		2
	Flexible w/o lug conductor section	IIIdA		
	i levine min ind collancial section	min	mm²	1 5
		min	mm²	1.5
	Florible of white conductor and in	max	mm²	35
	Flexible c/w lug conductor section			4 5
		min	mm²	1.5



	max	mm²	35
Power terminal protection according to IEC/EN 60529			IP20 front
Mechanical features			
Operating position			
	normal		Vertical plan
	allowable		±30° Screw / DIN rail
Fixing			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	ovolco	400000
	mechanical load	cycles cycles	1500000
EMC compatibility	modianical load	Cycles	yes
AC coil operating			yes
Rated AC voltage at 60Hz		V	230
AC operating voltage			
of 60Hz coil powered at 60Hz			
pick-up			
	min	%Us	80
	max	%Us	110
drop-out	_		
	min	%Us	20
AC average coil consumption at 20°C	max	%Us	55
of 60Hz coil powered at 60Hz			
or our iz con powered at our iz	in-rush	VA	210
	holding	VA	15
Dissipation at holding ≤20°C 50Hz	110101119	W	5
Max cycles frequency			
Mechanical operation		cycles/h	3600
Operating times			
Average time for Us control			
in AC			
Closing NO			
	min	ms	12
Onaria MO	max	ms	28
Opening NO	min	me	8
	max	ms ms	22
in DC	παλ	1113	
Closing NO			
	min	ms	40
	max	ms	85
Opening NO			
	min	ms	20
	max	ms	55
UL technical data			

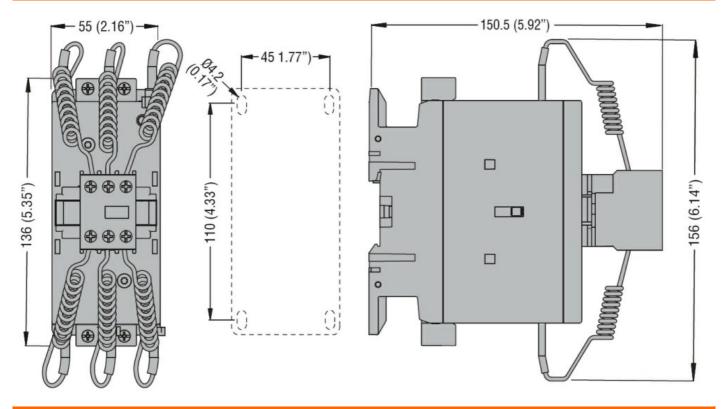




General USE

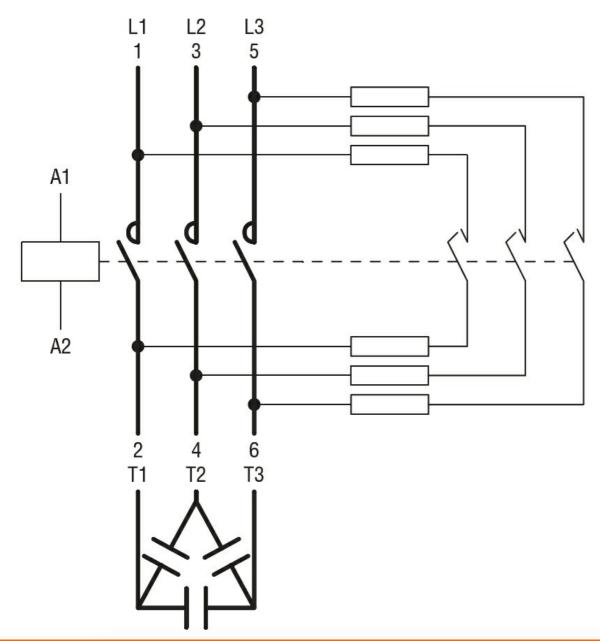
Contactor

		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	on			
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