



Product designation				Power contactor
Product type designati				BFK50
Contact characteristics				
Number of poles			Nr.	3
Rated insulation voltag			V	690
Rated impulse withstar	nd 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 co	urrent for 10s (IEC/EN60947-1)		Α	400
Protection fuse				
1 1010011011 1000		gG (IEC)	Α	80
Making capacity (RMS	value)	go (ILO)	A	500
Breaking capacity at vo	•			300
breaking capacity at ve	ладе	440V	Α	400
		500V	A	352
		690V	A	312
Desistance per pela /a	verage value)	0907		
Resistance per pole (a			mΩ	0.8
Power dissipation per p	pole (average value)	M	101	0.5
		Ith	W	6.5
Tightening torque for terminals				
		min	Nm	4
		max	Nm	5
		min	Ibin	2.95
		max	Ibin	3.69
Tightening torque for c	oil terminal			
		min	Nm	0.8
		max	Nm	1
		min	Ibin	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



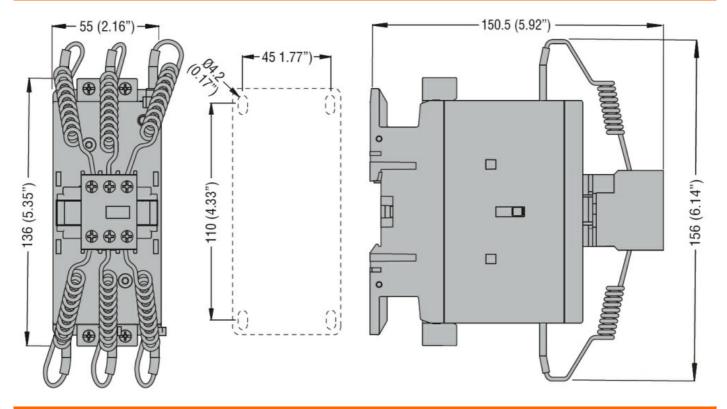
	max	mm²	35
Power terminal protection according to IEC/EN 60529			IP20 front
Mechanical features Operating position			
Operating position	normal		Vertical plan
	allowable		±30°
Fixing			Screw / DIN rail 35mm
Weight		g	1090
Conductor section			
AWG/kcmil conductor section	max		2
Operations	IIIdx		Σ.
Mechanical life		cycles	15000000
Electrical life		cycles	400000
Safety related data			
Performance level B10d according to EN/ISO 13489-1			
	rated load	cycles	400000
EMC compatibility	mechanical load	cycles	15000000
AC coil operating			yes
Rated AC voltage at 60Hz		V	220
AC operating voltage			
of 60Hz coil powered at 60Hz			
pick-up			
	min	%Us	80
drop-out	max	%Us	110
diop-out	min	%Us	20
	max	%Us	55
AC average coil consumption at 20°C			
of 60Hz coil powered at 60Hz			
	in-rush	VA	210
Dissipation at holding ≤20°C 50Hz	holding	VA W	15 5
Max cycles frequency		VV	5
Mechanical operation		cycles/h	3600
Operating times		3,0100,11	
Average time for Us control			
in AC			
Closing NO			40
	min	ms ms	12 28
Opening NO	max	ms	20
Sporting NO	min	ms	8
<u></u>	max	ms	22
in DC			
Closing NO			40
	min	ms ms	40
Opening NO	max	ms	85
Opening NO	min	ms	20
	max	ms	55
UL technical data			



## General USE

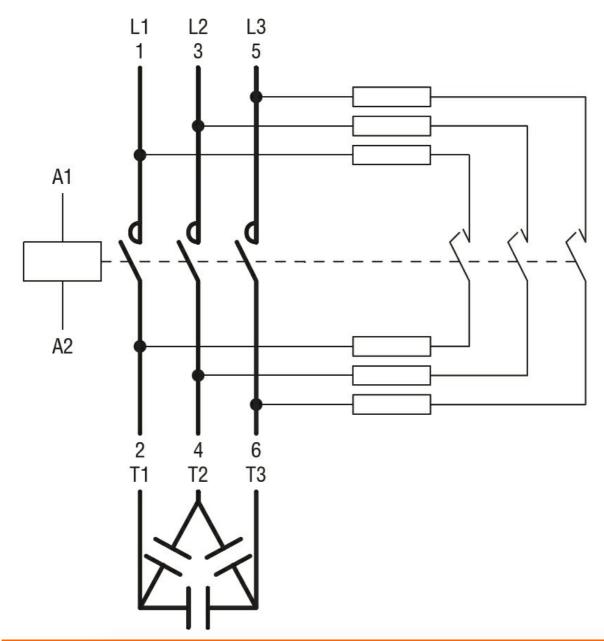
Contactor

		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