



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 te	erminals			
		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 s	imultaneously 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	allowable		Screw / DIN rail 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	cycles	400000
FMO	mechanical load	cycles	15000000
EMC compatibility AC coil operating			yes
Rated AC voltage at 60Hz		V	460
AC operating voltage		V	400
of 60Hz coil powered at 60Hz			
pick-up			
h.s.r.sh	min	%Us	80
	max	%Us	110
drop-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	<u>15</u>
Max cycles frequency		VV	3
Mechanical operation		cycles/h	3600
Operating times		0,0100/11	0000
Average time for Us control			
in AC			
Closing NO			
-	min	ms	12
	max	ms	28
Opening NO			_
	min	ms	8
	max	ms	22
in DC			
Closing NO	min	me	40
	max	ms ms	85
Opening NO	IIIax	1113	00
Opening No	min	ms	20
	max	ms	55
UL technical data			

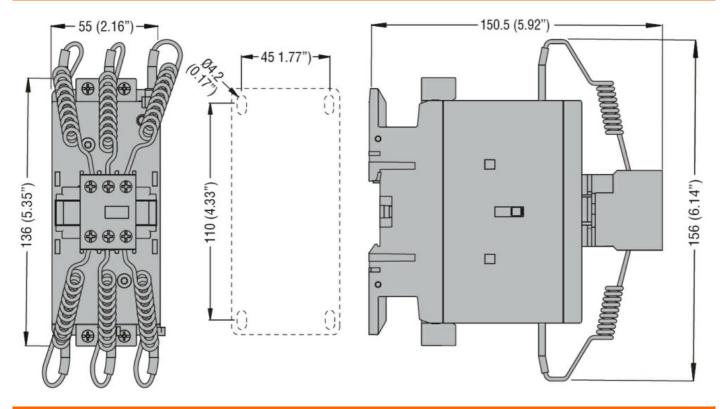




General USE

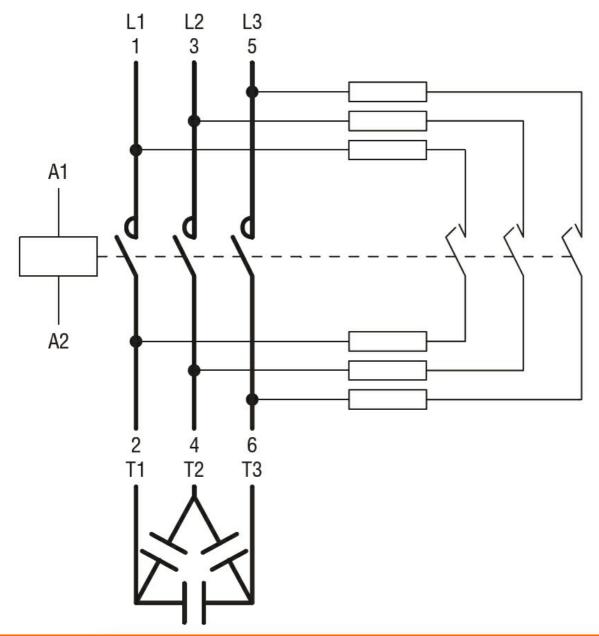
Contactor

		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