





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			
opolanonal noquenty	min	Hz	25
	max	Hz	400
IEC Conventional free air thermal current Ith	max	A	90
Rated operational power AC-6b (T≤40°C)			30
Nated operational power Ac-ob (1240 C)	230V	kvar	22
	400V		40
	440480V	kvar	41
		kvar	
Object time allowed by a compatition 40a (IEO/ENICO047.4)	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	Ibin	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	max	Nr.	2
Conductor section			
AWG/Kcmil			
AWO/IGIIII	may		2
Flexible w/o lug conductor section	max		
riexible w/o lug conductor section	mai.a	mm²	1 5
	min	mm²	1.5
Florida de la companya della companya della companya de la companya de la companya della company	max	mm²	35
Flexible c/w lug conductor section	min	mm²	1.5
			a t



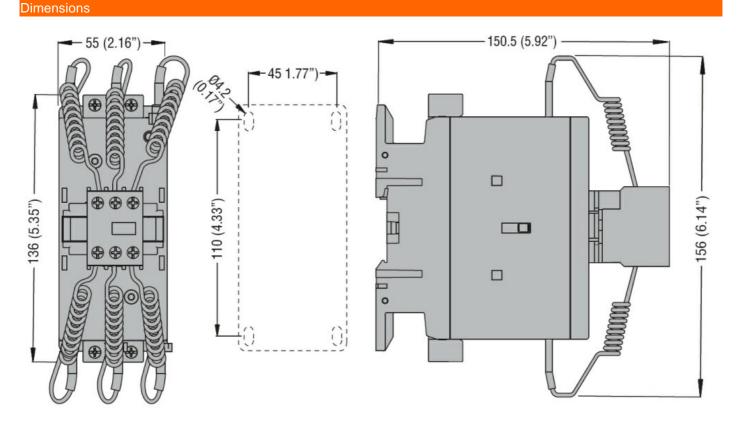


		max	mm²	35
	n according to IEC/EN 60529			IP20 front
Mechanical features				
Operating position				
		normal		Vertical plan
		allowable		±30°
ixing				Screw / DIN rail
				35mm
Veight			g	1090
Conductor section				
·	AWG/kcmil conductor section			
		max		2
Operations				
Mechanical life			cycles	15000000
Electrical life			cycles	400000
Safety related data				
Performance level B10d	according to EN/ISO 13489-1			
		rated load	cycles	400000
		mechanical load	cycles	15000000
MC compatibility				yes
AC coil operating				
Rated AC voltage at 50/0	60Hz		V	110
C operating voltage				
	of 50/60Hz coil powered at 50Hz			
	pick-up			
		min	%Us	80
		max	%Us	110
	drop-out			
		min	%Us	20
-		max	%Us	55
(	of 50/60Hz coil powered at 60Hz			
	pick-up			
		min	%Us	85
		max	%Us	110
	drop-out		0/11	0.0
		min	%Us	20
\O ====================================	ntion of 20°C	max	%Us	55
AC average coil consum	•			
•	of 50/60Hz coil powered at 50Hz	!	١/٨	240
		in-rush	VA VA	210
-	of FO/GOUZ anil noward of COLL-	holding	VA	15
•	of 50/60Hz coil powered at 60Hz	عامريس من	١/٨	105
		in-rush	VA VA	195
-	of GOLIZ anil noward at GOLIZ	holding	VA	13
•	of 60Hz coil powered at 60Hz	ام سامانا - امانا المانا	١/٨	210
		in-rush	VA VA	210
Dissipation at halding of	0.00 5011-	holding	VA	15 5
Dissipation at holding ≤2	U C DUHZ		W	ס
Max cycles frequency			0) (6) 6 - / -	2600
Mechanical operation			cycles/h	3000
Operating times Average time for Us con	tral			
verage time for US con	lIUI			

Closing NO

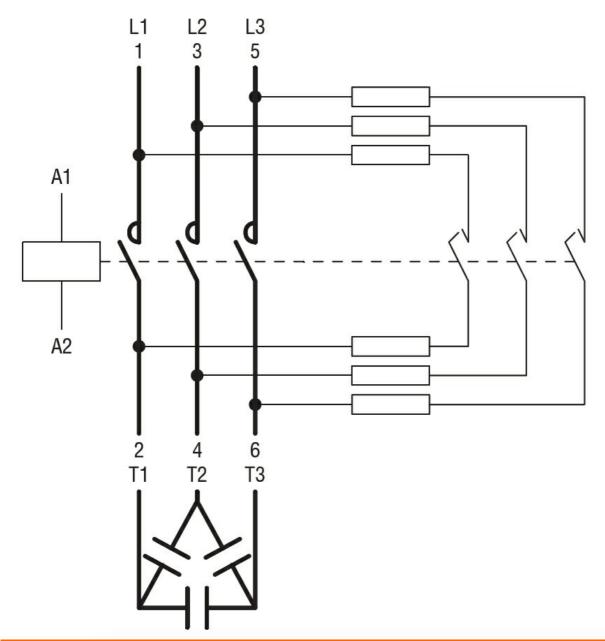


			min	ms	12
			max	ms	28
		Opening NO			
			min	ms	8
			max	ms	22
	in DC				
		Closing NO			
		-	min	ms	40
			max	ms	85
		Opening NO			
			min	ms	20
			max	ms	55
UL technical data					
General USE					
	Contactor				
			AC current	Α	90
Ambient conditions					
Temperature					
	Operating temperature				
			min	°C	-50
			max	°C	70
	Storage temperature				
			min	°C	-60
			max	°C	80
Max altitude				m	3000
Resistance & Protection	on				
Pollution degree					3
i oliation aogioo					3



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