

BFK8000A400

CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, BFK TYPE **electric** (INCLUDING LIMITING RESISTORS), MAXIMUM IEC OPERATIONAL POWER 400V = 50KVAR, 400VAC 50/60HZ



Product designation			Power contactor
Product type designation			BFK80
Contact characteristics			
Number of poles		nr.	3
Rated insulation voltage Ui		V	690
Rated impulse withstand voltage Uimp		kV	8
Operating frequency			
	Operational frequency min	Hz	25
	Operational frequency max	Hz	400
Conventional free air thermal current Ith		Α	115
Rated operational power AC6b (T≤40°C)			
	230V	kvar	30
	400V	kvar	50
	500V	kvar	56
	690V	kvar	65
Short-time allowable current for 10s (IEC/EN60947-1)		Α	640
Protection fuse			
	gG (IEC)	Α	125
Resistance per pole (average value)	9- ()	mΩ	0.6
Tightening torque for terminals			
riginoring torque for terrimate	min	Nm	4
	max	Nm	5
	min	lbft	2.95
	max	lbft	3.69
Tightening torque for coil terminal	· · · · · · · · · · · · · · · · · · ·		0.00
riginaling tarqua for admitalining.	min	Nm	0.8
	max	Nm	1
	min	lbft	0.8
	max	lbft	0.74
max number of wires simultaneously connectable	THUX.	nr.	2
Conductor section			
AWG			
7,777	min		14
	max		2
Flexible w/o lug conductor section			
i locable w/o lag conductor section	min	mm²	1.5
	max	mm²	35
Flexible c/w lug conductor section	max		
Tickliste of wildy contractor section	min	mm²	1.5
	max	mm²	35
Power terminal protection according to IEC/EN 60529	IIIdA	111111	IP20 front
Auxiliary contact characteristics			11 20 110111
Operating current DC13			
Operating current DC 13			Screw / DIN rail
	110V	Α	35mm



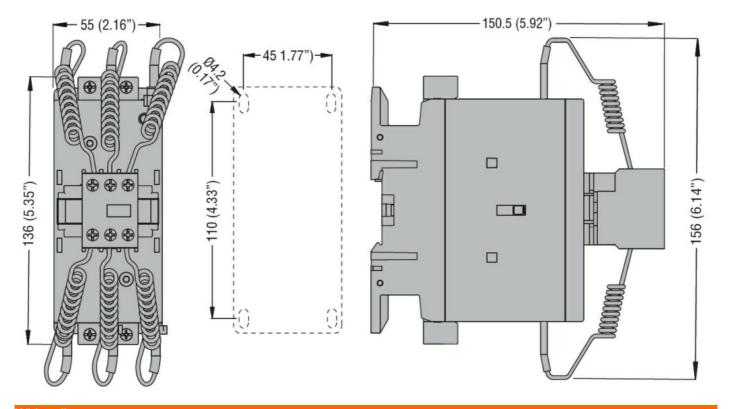
CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, BFK TYPE electric (INCLUDING LIMITING RESISTORS), MAXIMUM IEC OPERATIONAL POWER 400V = 50KVAR, 400VAC 50/60HZ

Ambient conditions				
Temperature				
remperature	Operating temperature			
	Operating temperature	min	°C	-50
		max	°C	70
	Storage temperature			
	Clorage temperature	min	°C	-60
		max	°C	80
Max altitude			m	3000
Operating position				
		normal		Vertical plan
		allowable		±30°
Mounting				Screw / DIN rail 35mm
Weight			g	1.09
Operations				
Mechanical life			Cycles	15000000
Electrical life			Cycles	400000
Safety related data				
Performance level B1	0d according to EN/ISO 13489-1			
		rated load	Cicli	400000
		mechanical load	Cicli	15000000
EMC compatibility				yes
AC coil operating				
AC operating voltage				
	of 50/60Hz coil powered at 50Hz			
	pick-up		0/11	2.2
		min	%Us	0.8
	dram aut	max	%Us	1.1
	drop-out	min	%Us	0.2
		min max	%Us	0.55
	of 50/60Hz coil powered at 60Hz	IIIdA	/003	0.00
	pick-up			
	plot up	min	%Us	0.85
		max	%Us	1.1
	drop-out	max	,000	
		min	%Us	0.4
		max	%Us	0.55
	of 60Hz coil powered at 60Hz	<del></del>		
	pick-up			
		min	%Us	0.8
		max	%Us	1.1
	drop-out			
		min	%Us	0.2
		max	%Us	0.55
AC operating voltage				
	of 50/60Hz coil powered at 50Hz			
		in-rush	VA	210
		holding	VA	15
	of 50/60Hz coil powered at 60Hz	<u>.</u>		
		in-rush	VA	195
	(0011 11	holding	VA	13
	of 60Hz coil powered at 60Hz			



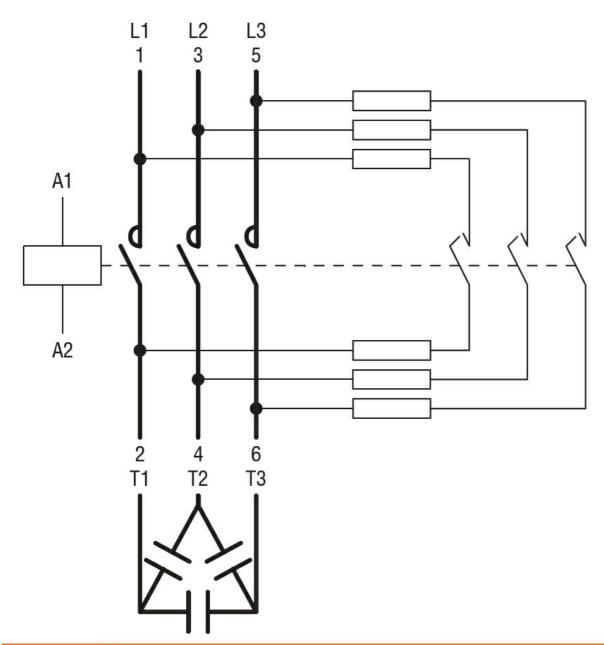
CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, BFK TYPE (INCLUDING LIMITING RESISTORS), MAXIMUM IEC OPERATIONAL POWER 400V = 50KVAR, 400VAC 50/60HZ

		in-rush	VA	210
		holding	VA	15
Dissipation at holding ≤20°C 50Hz			W	5.0
Max cycles frequency				
Mechanical operations			Cycles/h	3600
Operating times				
Average time for Us control				
in AC				
	Closing NO			
		min	ms	12
		max	ms	28
	Opening NO			
		min	ms	8
		max	ms	22
Other features				
Pollution degree				3
Dimensions				



Wiring diagrams

CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, BFK TYPE **electric** (INCLUDING LIMITING RESISTORS), MAXIMUM IEC OPERATIONAL POWER 400V = 50KVAR, 400VAC 50/60HZ



## Certifications and compliance

Certifications

CSA C22.2 n° 60947-1

CSA C22.2 n° 60947-4-1

IEC/EN 60947-1

IEC/EN 60947-4-1

UL 60947-1

UL 60947-4-1

Compliance

CCC

cULus

## ETIM 6 classification

EC000066 - Power contactor, AC switching