

CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, BFK TYPE electric (INCLUDING LIMITING RESISTORS), MAXIMUM IEC OPERATIONAL POWER 400V = 50KVAR, 24VAC 50/60HZ



Product designation		Power contactor
Product type designation		BFK80
Contact characteristics		
Number of poles	nr.	3
Rated insulation voltage Ui	V	1000
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
Operating current		
Operational current AC3 (≤440V ≤55°C)	Α	80
Operational current AC4 (400V)	A	38
Short-time allowable current for 10s (IEC/EN60947-1)	Α	640
Protection fuse		
gG (IEC)	Α	125
aM (IEC)	Α	80
Making capacity (RMS value)	Α	800
Breaking capacity at voltage		
Breaking capacity 440V	Α	640
Breaking capacity 500V	Α	625
Breaking capacity 690V	Α	456
Resistance per pole (average value)	mΩ	0.6
Power dissipation per pole (average value)		
Power dissipation pole (average value) Ith	W	7.9
AC3	W	3.8
Tightening torque for terminals		
min	Nm	4
max	Nm	5
min	lbft	2.95
max	lbft	3.69
Tightening torque for coil terminal		
min	Nm	0.8
max	Nm	1
min	lbft	0.59
max	lbft	0.74
max number of wires simultaneously connectable	nr.	2
Conductor section		
AWG .		4.0
min		18
The it has to be a second in the second in t		2
Flexible w/o lug conductor section	3	4.5
min	mm²	1.5
Max Provided and the Company of the	mm²	35
Power terminal protection according to IEC/EN 60529		IP20 front



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Ambient conditions				
Temperature				
	Operating temperature			
		min	°C	-50
		max	°C	70
	Storage temperature			
		min	°C	-60
		max	°C	80
Max altitude			m	3,000
Operating position				
		normal		Vertical plan
		allowable		±30°
Mounting				Screw / DIN rail 35mm
Veight			g	1
Operations				
Mechanical life			Cycles	15,000,000
Electrical life			Cycles	1300000
Safety related data				
Mirror contats according	ng to IEC/EN 609474-4-1			Yes
EMC compatibility				Yes
AC coil operating				
Rated AC voltage at 50	0/60Hz, 60Hz			
		min	V	12
		max	V	600
AC 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/!!	40
		min	%Us	40
	of college in an experience of	max	%Us	55
	of 60Hz coil powered at 60Hz			
	pick-up		0/11-	90
		min	%Us	80
	drap out	max	%Us	110
	drop-out	min	%Us	20
		max	%Us %Us	55
AC operating voltage		IIIdX	/005	00
to operating voltage	of 50/60Hz coil powered at 50Hz			
	or solouriz con powered at sunz	in-rush	VA	210
		in-rush holding	VA VA	15
	of 50/60Hz coil powered at 60Hz	Holding	٧٨	10
	or solver iz con powered at ounz	in-rush	VA	195
		holding	VA VA	195
		Holding	٧٨	10

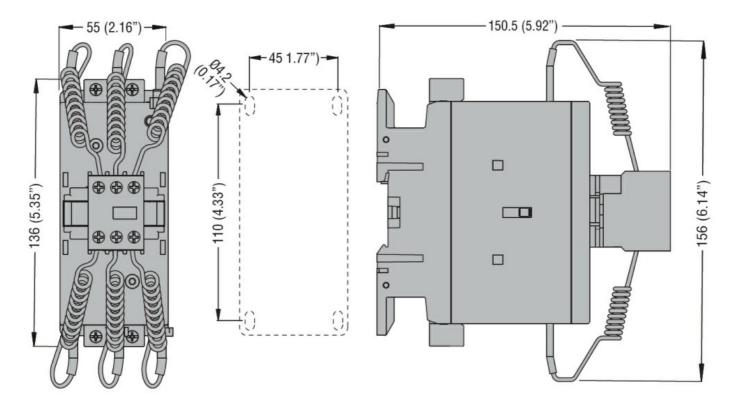




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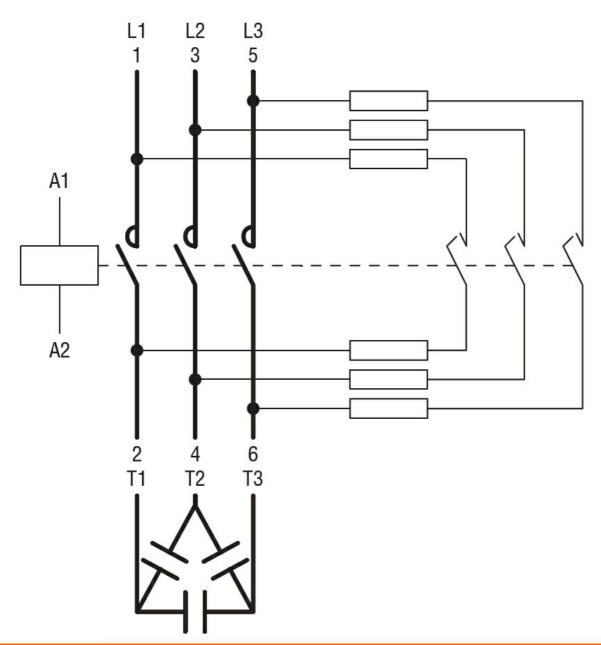
	of 60Hz coil powered at 60	OHz			
			in-rush	VA	210
			holding	VA	15
Dissipation at holding ≤	20°C 50Hz			W	5
Max cycles frequency					
Mechanical operations				Cycles/h	3,600
Operating times					
Average time for Us co	ntrol				
	in AC				
	CI	losing NO			
		· ·	min	ms	12
			max	ms	21
	O	pening NO			
		. 0	min	ms	8
			max	ms	22
	in DC				
		losing NO			
	0.	looning i to	min	ms	40
			max	ms	85
	O	pening NO	max	1110	00
	S	periing 140	min	ms	20
			max	ms	55
UL technical data			max	1110	00
	for three-phase AC motor				
i dii-load carrent (i LA)	ioi tillee-pilase Ac Illotoi		at 480V	٨	77
			at 600V	A A	77 77
Vialded meash anical new	d		at 000 v	^	11
Yielded mechanical per					
	for three-phase AC motor		-1.000/0001/		0.5
			at 200/208V	hp	25
			at 220/230V	hp	30
			at 460/480V	hp	60
			at 575/600V	hp	75
	ry contacts according to UL	-			SI - A600
General USE					
	Contactor				
			AC current	Α	32
	Auxiliary contacts				
			AC voltage	V	600
			AC current	Α	10
			DC voltage	V	250
			DC current	Α	1
Dimensions					

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Wiring diagrams

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## 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

cULus

## ETIM 6 classification

EC000066 - Power contactor, AC switching