BFK1810A230

CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, BFK TYPE (INCLUDING LIMITING RESISTORS), MAXIMUM IEC OPERATIONAL POWER 400V = 15KVAR, 230VAC 50/60HZ

Product designation			Power contactor
Product type designation			BFK18
Contact characteristics			
Number of poles		nr.	3
Rated insulation voltage Ui		V	690
Rated impulse withstand voltage Uimp		kV	6
Operating frequency			
	Operational frequency min	Hz	25
	Operational frequency max	Hz	400
Conventional free air thermal current Ith		A	32
Rated operational power AC6b (T≤40°C)			
	230V	kvar	9
	400V	kvar	15
	500V	kvar	17
	690V	kvar	20
Short-time allowable current for 10s (IEC/EN60947-1)		A	200
Protection fuse			
	gG (IEC)	A	40
Resistance per pole (average value)		mΩ	2.5
Tightening torque for terminals			
	min	Nm	1.5
	max	Nm	1.8
	min	lbft	1.1
	max	lbft	1.5
Tightening torque for coil terminal			
	min	Nm	0.8
	max	Nm	1
	min	lbft	0.8
	max	lbft	0.74
max number of wires simultaneously connectable		nr.	2
Conductor section			
AWG			
	min		16
	max		10
Flexible w/o lug conductor section			
	min	mm²	1
	max	mm²	6
Flexible c/w lug conductor section			
	min	mm²	1
	max	mm²	4
Flexible with insulated spade lug conductor section			
	min	mm²	1
	max	mm²	4
Power terminal protection according to IEC/EN 60529			IP20 when wired
Auxiliary contact characteristics			

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Type of contact				1 NO
Thermal current Ith			A	10
IEC/EN 60947-5-1 designation				A600 - P600
Operating current AC15				
		230V	A	3
		400V	A	1.9
		500V	A	1.4
Operating current DC12				
		110V	A	5.7
Operating current DC13				
		24V	A	5.7
		48V	A	2.9
		60V	A	2.3
		110V	A	Screw / DIN rail 35mm
		125V	A	0.6
		220V	A	0.2
		600V	A	1.2
Ambient conditions				
Temperature				
	Operating temperature			
		min	°C	-50
		max	°C	70
	Storage 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	0.418
Operations				
Mechanical life			Cycles	20000000
Electrical life			Cycles	400000
Safety related data				
Performance level B10d according to EN/ISO 13489-1				
		rated load	Cicli	400000
		mechanical load	Cicli	20000000
EMC compatibility				yes
AC coil operating				
AC operating voltage				
	of 50/60Hz coil powered at 50Hz			
		pick-up		
			min	%Us 0.8
			max	%Us 1.1
		drop-out		
			min	%Us 0.2
			max	%Us 0.55
	of 50/60Hz coil powered at 60Hz			
		pick-up		
			min	%Us 0.85
			max	%Us 1.1

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		drop-out			
			min	%Us	0.2
			max	%Us	0.55
	of 60Hz coil powered at 60Hz				
		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	75
			holding	VA	9
	of 50/60Hz coil powered at 60Hz				
			in-rush	VA	70
			holding	VA	6.5
	of 60Hz coil powered at 60Hz				
			in-rush	VA	75
			holding	VA	9
Dissipation at holding ≤20°C 50Hz				W	2.5
Max cycles frequency					
Mechanical operations				Cycles/h	3600
Operating times					
Average time for Us control					
	in AC				
		Closing NO			
			min	ms	8
			max	ms	24
		Opening NO			
			min	ms	10
			max	ms	20
		Closing NC			
			min	ms	14
			max	ms	28
		Opening NC			
			min	ms	7
			max	ms	18
UL technical data					
Yielded mechanical performance					
	for single-phase AC motor				
			at 110/120V	hp	1
Contact rating of auxiliary contacts according to UL					A600 - P600
Other features					
Pollution degree					3
Dimensions					

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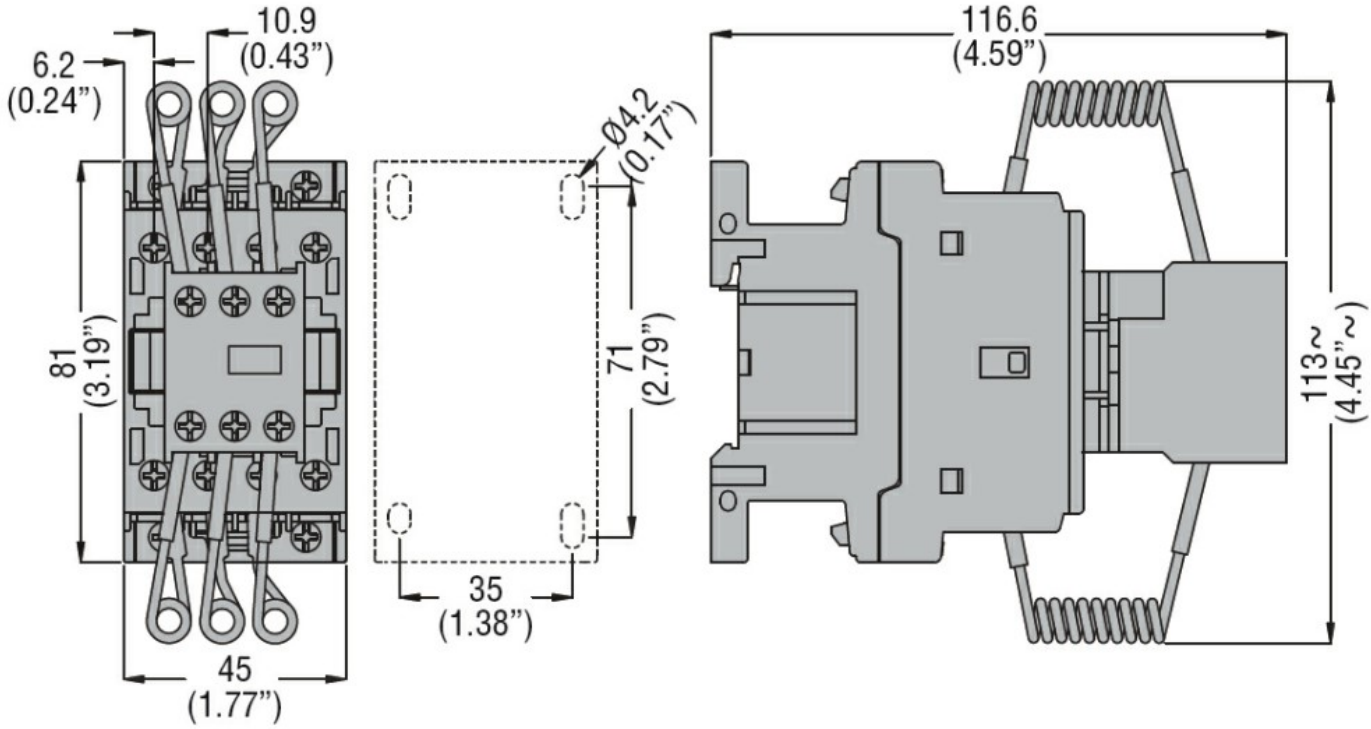

Wiring diagrams

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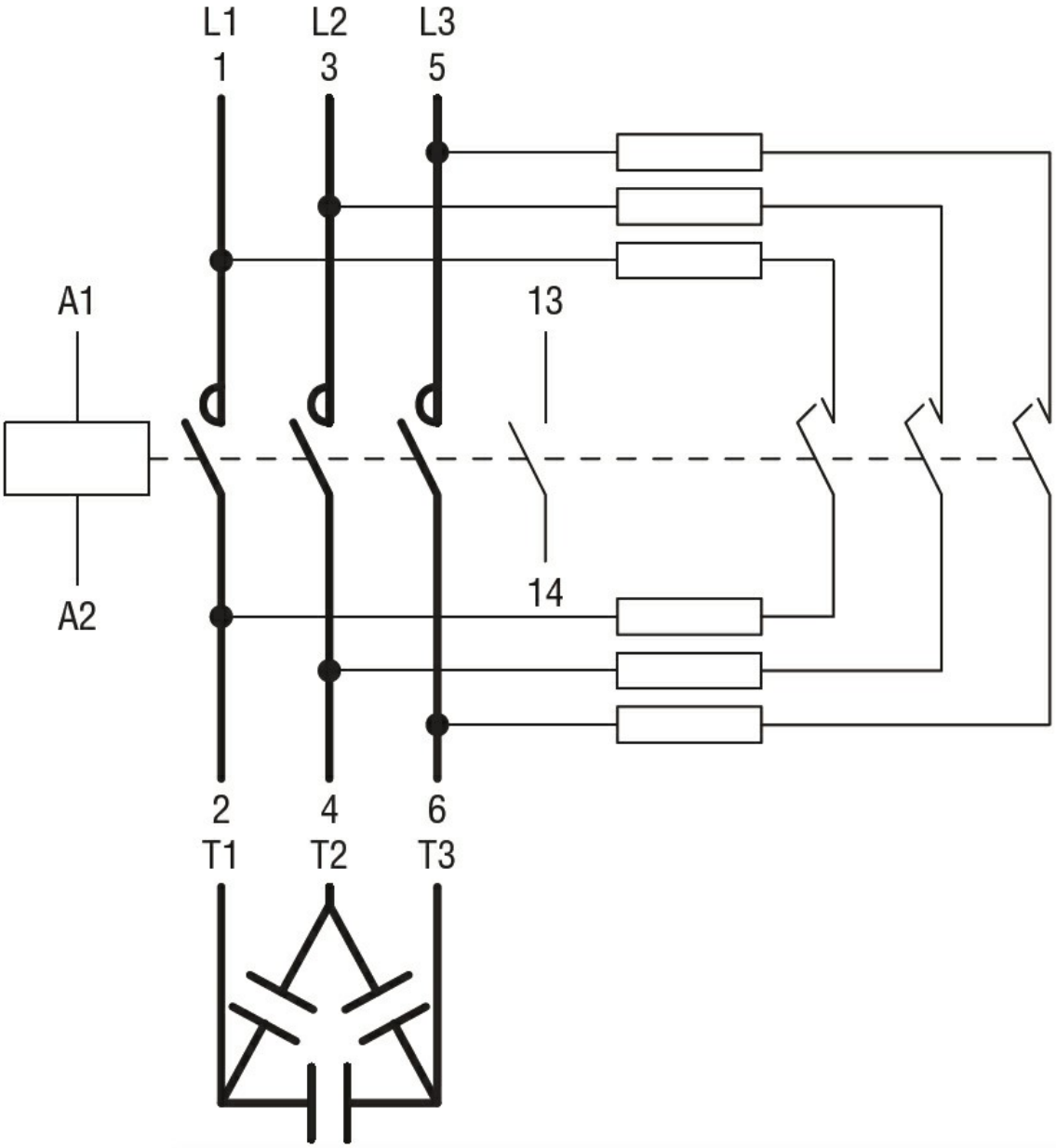

Certifications and compliance

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

CCC
cULus
EAC

ETIM 6 classification

EC000066 - Power contactor, AC switching