



Product designation

Power contactor

Product type designation

BFK18

Contact characteristics

Number of poles	Nr.	3
Rated insulation voltage U_i IEC/EN	V	690
Rated impulse withstand voltage U_{imp}	kV	6
Operational frequency	min Hz	25
	max Hz	400
IEC Conventional free air thermal current I_{th}	A	32
Rated operational power AC-6b ($T \leq 40^\circ C$)	230V kvar	9
	400V kvar	15
	440...480V kvar	17
	690V kvar	20
Short-time allowable current for 10s (IEC/EN60947-1)	A	200
Protection fuse	gG (IEC)	A 40
Making capacity (RMS value)	A	180
Breaking capacity at voltage	440V A	144
	500V A	120
	690V A	94
Resistance per pole (average value)	mΩ	2.5
Power dissipation per pole (average value)	I_{th} W	2.6
Tightening torque for terminals	min Nm	1.5
	max Nm	1.8
	min lbin	1.1
	max lbin	1.5
Tightening torque for coil terminal	min Nm	0.8
	max Nm	1
	min lbin	0.8
	max lbin	0.74
Max number of wires simultaneously connectable	Nr.	2
Conductor section		
AWG/Kcmil	max	10
Flexible w/o lug conductor section	min mm ²	1
	max mm ²	6
Flexible c/w lug conductor section	min mm ²	1

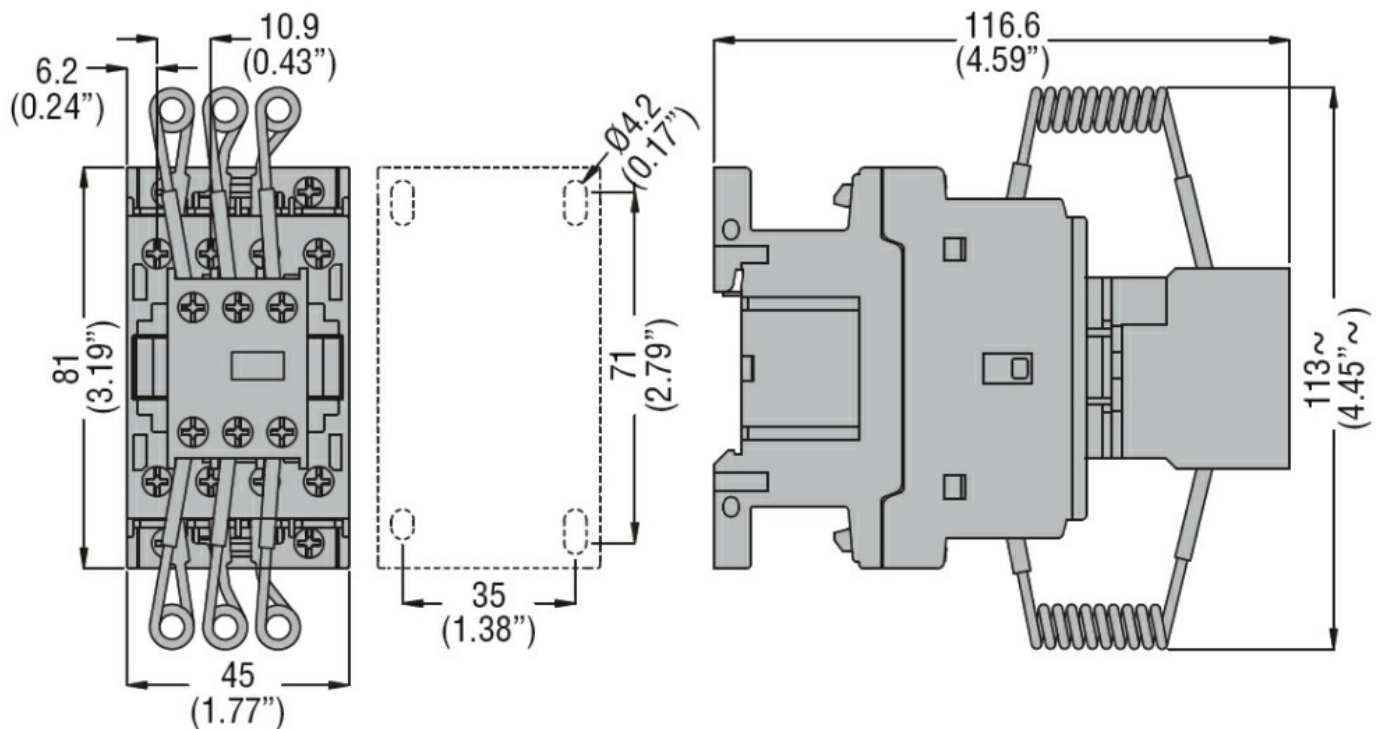
CONTACTOR PARA CORRECCIÓN DEL FACTOR DE POTENCIA CON CIRCUITO DE CONTROL EN AC, TIPO BFK (CON RESISTENCIAS LIMITADORAS), POTENCIA NOMINAL MÁXIMA (IEC) 400V = 15KVAR, BOBINA 110VAC 50/60HZ

Flexible with insulated spade lug conductor section	max	mm ²	4
	min	mm ²	1
	max	mm ²	4
Power terminal protection according to IEC/EN 60529			IP20 when properly wired
Mechanical features			
Operating position	normal allowable	Vertical plan ±30°	
Fixing			Screw / DIN rail 35mm
Weight	g		418
Conductor section	AWG/kcmil conductor section		
	max	10	
Auxiliary contact characteristics			
Thermal current I _{th}	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	1.25
	125V	A	1.1
	220V	A	0.6
	600V	A	0.1
Operations			
Mechanical life	cycles		20000000
Electrical life	cycles		400000
Safety related data			
Performance level B10d according to EN/ISO 13489-1	rated load mechanical load	cycles cycles	400000 20000000
Mirror contats according to IEC/EN 609474-4-1	YES		
EMC compatibility	yes		
AC coil operating			
Rated AC voltage at 50/60Hz	V		110
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		

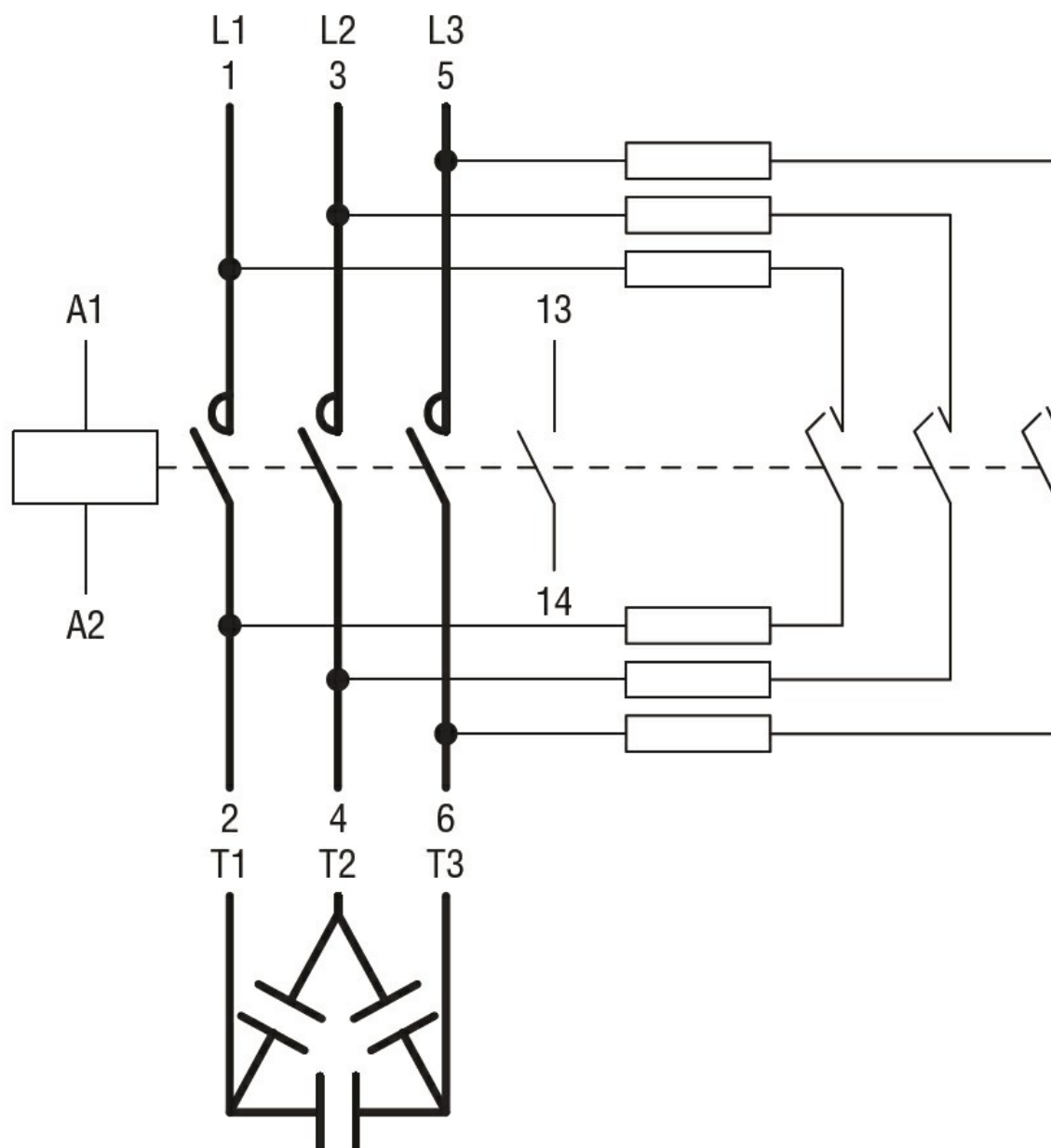
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drop-out	min	%Us	85
	max	%Us	110
	min	%Us	20
	max	%Us	55
AC average coil consumption at 20°C			
of 50/60Hz coil powered at 50Hz			
	in-rush	VA	75
	holding	VA	9
of 50/60Hz coil powered at 60Hz			
	in-rush	VA	70
	holding	VA	6.5
of 60Hz coil powered at 60Hz			
	in-rush	VA	75
	holding	VA	9
Dissipation at holding ≤20°C 50Hz		W	2.5
Max cycles frequency			
Mechanical operation		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
UL technical data			
General USE			
Contactor	AC current	A	32
	Auxiliary contacts	AC voltage	V 600
		AC current	A 10
		DC voltage	V 250
		DC current	A 1
	Contact rating of auxiliary contacts according to UL		A600 - P600
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			
Pollution degree		3	
Dimensions			

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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
EAC

ETIM classification

ETIM 8.0

EC001079 -
Capacitor
contactor