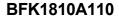






Product designation				Power contactor
Product type designat				BFK18
Contact characteristics	S			
Number of poles	18150/51		Nr.	3
Rated insulation voltage			V	690
Rated impulse withsta			kV	6
Operational frequency	1			
		min	Hz	25
		max	Hz	400
IEC Conventional free			Α	32
Rated operational pov	ver AC-6b (T≤40°C)			
		230V	kvar	9
		400V	kvar	15
		440480V	kvar	17
		690V	kvar	20
	current for 10s (IEC/EN60947-1)		Α	200
Protection fuse				
		gG (IEC)	A	40
Making capacity (RMS	·		Α	180
Breaking capacity at v	oltage			
		440V	Α	144
		500V	Α	120
		690V	Α	94
Resistance per pole (a			mΩ 2.5	
Power dissipation per	pole (average value)			
-		Ith	W	2.6
Tightening torque for t	erminals			
		min	Nm	1.5
		max	Nm	1.8
		min	lbin	1.1
		max	lbin	1.5
Tightening torque for o	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	mm²	1
		max	mm²	6
	Flexible c/w lug conductor section			
		min	mm²	1





	max	mm²	4
Flexible with insulated spade lug conductor sect		2	
	min	mm²	1
	max	mm²	4
Power terminal protection according to IEC/EN 60529			IP20 when properly wired
Mechanical features			
Operating position			
	normal		Vertical plan
	allowable		±30°
Fixing			Screw / DIN rail 35mm
Weight		g	418
Conductor section			
AWG/kcmil conductor section			
	max		10
Auxiliary contact characteristics			
Thermal current Ith		A	10
IEC/EN 60947-5-1 designation			A600 - P600
Operating current AC15			
	230V	Α	3
	400V	Α	1.9
	500V	Α	1.4
Operating current DC12	44014	_	
0 1 1 2010	110V	Α	5.7
Operating current DC13	0.417	Δ.	F 7
	24V	A	5.7
	48V 60V	A A	2.9 2.3
	110V	A	1.25
	125V	A	1.1
	220V	A	0.6
	600V	Α	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	cycles	400000
	mechanical load	cycles	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	•	0/11-	0.0
	min	%Us	80
d	max	%Us	110
drop-out		0/110	20
	min	%Us %Us	20 55
of 50/60Hz coil powered at 60Hz	max	/005	00
pick-up			
Pion 4P			

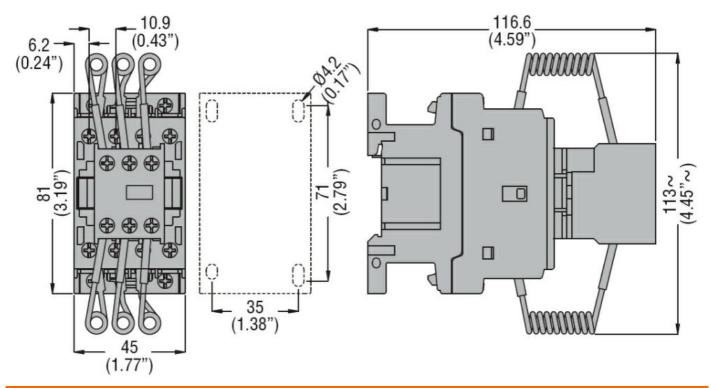




		min	%Us	85
		max	%Us	110
	drop-out	max	7000	110
	alop cat	min	%Us	20
		max	%Us	55
.C average coil consu	Imption at 20°C		7000	
	of 50/60Hz coil powered at 50Hz			
	0. 00/00 <u>_</u> 00 po 0.00 at 00 <u>_</u>	in-rush	VA	75
		holding	VA	9
	of 50/60Hz coil powered at 60Hz			
		in-rush	VA	70
		holding	VA	6.5
	of 60Hz coil powered at 60Hz			
		in-rush	VA	75
		holding	VA	9
issipation at holding :	≤20°C 50Hz		W	2.5
lax cycles frequency				
lechanical operation			cycles/h	3600
perating times				
verage time for Us co	ontrol			
· ·	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
L technical data				
Seneral USE				
	Contactor			
		AC current	Α	32
	Auxiliary contacts			
		AC voltage	V	600
		AC current	Α	10
		DC voltage	V	250
	<u> </u>	DC current	Α	1
	ary contacts according to UL			A600 - P600
mbient conditions				
emperature				
	Operating temperature		0.5	
		min	°C	-50
	-	max	°C	70
	Storage temperature			
		min	°C	-60
		max	°C	80
ax altitude			m	3000
esistance & Protection	on			
ollution degree				3
imensions				

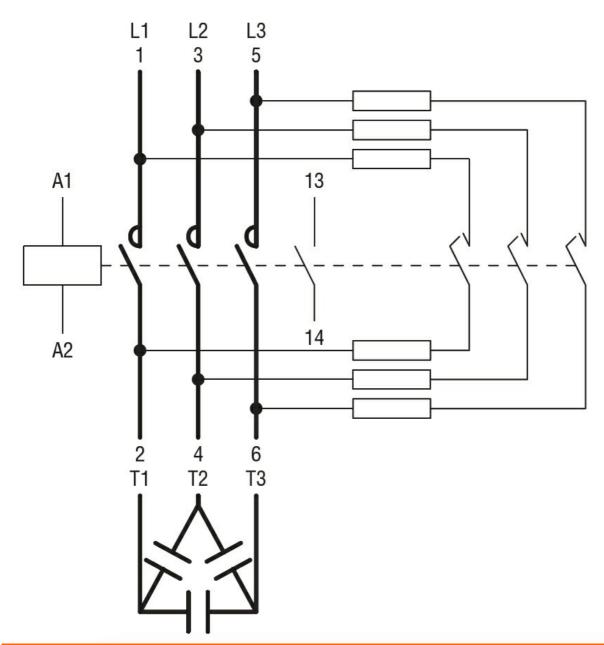






Wiring diagrams





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