



Product designation			Power contactor
Product type designation			BFK18
Contact characteristics			
Number of poles		Nr.	3
Rated insulation voltage Ui IEC/EN		V	690
Rated impulse withstand voltage Uimp		kV	6
Operational frequency			
	min	Hz	25
	max	Hz	400
IEC Conventional free air thermal current Ith		А	32
Rated operational power AC-6b (T≤40°C)			
	230V	kvar	9
	400V	kvar	15
	440480V	kvar	17
	690V	kvar	20
Short-time allowable current for 10s (IEC/EN60947-1)		Α	200
Protection fuse			
	gG (IEC)	Α	40
Making capacity (RMS value)		Α	180
Breaking capacity at voltage			_
	440V	Α	144
	500V	Α	120
	690V	Α	94
Resistance per pole (average value)		mΩ	2.5
Power dissipation per pole (average value)			
	Ith	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	mm²	1
	max	mm²	6
Flexible c/w lug conductor section			
	min	mm²	1



	max	mm²	4
Flexible with insulated spade lug conductor se			
	min	mm²	1
	max	mm²	IP20 when
Power terminal protection according to IEC/EN 60529			properly wired
Mechanical features			
Operating position			
	normal allowable		Vertical plan ±30°
	allowable		Screw / DIN rail
Fixing			35mm
Weight		g	416
Conductor section			
AWG/kcmil conductor section			
	max		10
Auxiliary contact characteristics			10
Thermal current Ith		Α	10
IEC/EN 60947-5-1 designation			A600 - P600
Operating current AC15	0001	۸	2
	230V 400V	A A	3 1.9
	500V	A	1.4
Operating current DC12			17
	110V	Α	5.7
Operating current DC13	<u> </u>		
	24V	Α	5.7
	48V	Α	2.9
	60V	Α	2.3
	110V	Α	1.25
	125V	Α	1.1
	220V	A	0.6
Onevetions	600V	Α	0.1
Operations  Mechanical life		cyclos	20000000
Electrical life		cycles cycles	400000
Safety related data		Cycles	400000
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 60Hz		V	575
AC operating voltage			
of 60Hz coil powered at 60Hz			
pick-up	•	0/11-	00
	min	%Us	80
drop out	max	%Us	110
drop-out	min	%Us	20
	max	%Us	55
	max	,000	



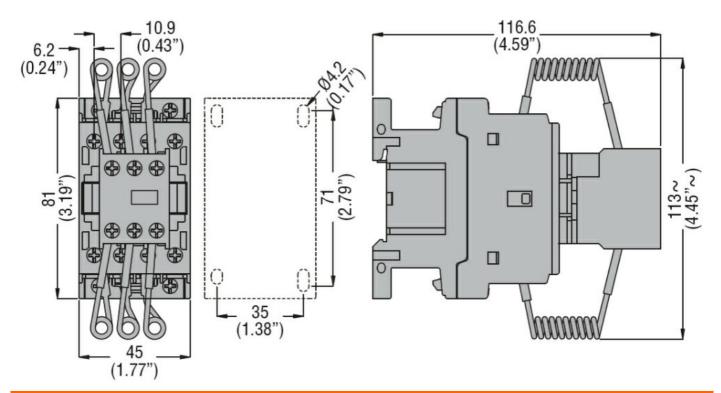


of 60Hz coil powered at 60Hz

	or our iz con powered at o	· • · · <del>-</del>			
			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				Oyoloo/11	0000
Average time for Us co	potrol				
Average lime for US CC					
	in AC				
	C	Closing NO	_		_
			min	ms	8
			max	ms	24
	C	Opening NO			
			min	ms	10
			max	ms	20
	C	Closing NC			
	_		min	ms	14
			max	ms	28
UL technical data			Пах	1113	20
General USE					
	Contactor				
			AC current	Α	32
	Auxiliary contacts				
			AC voltage	V	600
				_	
			AC current	Α	10
			AC current DC voltage		
			DC voltage	V	250
Contact rating of auxilia	ary contacts according to LL	1			250 1
	ary contacts according to U	L	DC voltage	V	250
Ambient conditions	ary contacts according to U	L	DC voltage	V	250 1
_		L	DC voltage	V	250 1
Ambient conditions	ary contacts according to U Operating temperature	L	DC voltage DC current	V A	250 1 A600 - P600
Ambient conditions		L	DC voltage	V A	250 1 A600 - P600
Ambient conditions		L	DC voltage DC current	V A	250 1 A600 - P600
Ambient conditions		L	DC voltage DC current min	V A	250 1 A600 - P600
Ambient conditions	Operating temperature	L	DC voltage DC current min max	°C °C	250 1 A600 - P600 -50 70
Ambient conditions	Operating temperature	L	DC voltage DC current min max	°C °C °C	250 1 A600 - P600 -50 70
Ambient conditions Temperature	Operating temperature	L	DC voltage DC current min max	°C °C °C	250 1 A600 - P600 -50 70 -60 80
Ambient conditions Temperature  Max altitude	Operating temperature  Storage temperature	L	DC voltage DC current min max	°C °C °C	250 1 A600 - P600 -50 70
Ambient conditions Temperature  Max altitude Resistance & Protection	Operating temperature  Storage temperature	L	DC voltage DC current min max	°C °C °C	250 1 A600 - P600 -50 70 -60 80 3000
Ambient conditions Temperature  Max altitude	Operating temperature  Storage temperature	L	DC voltage DC current min max	°C °C °C	250 1 A600 - P600 -50 70 -60 80

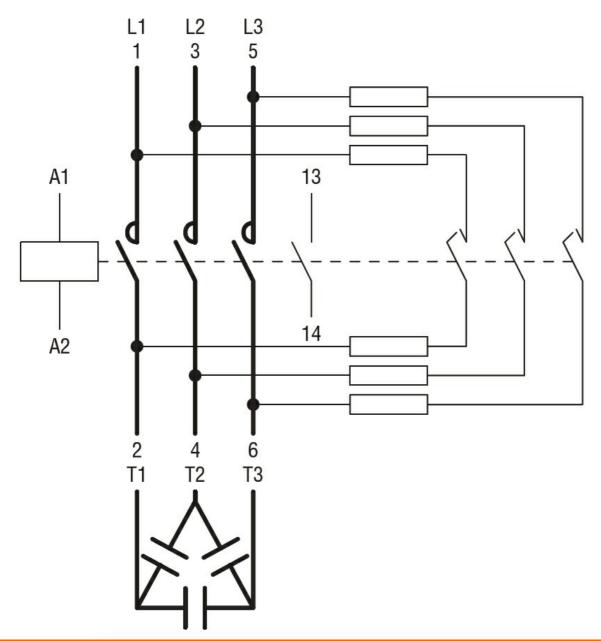






Wiring diagrams





## 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