



Product designation Product type designation			Power contactor BFK12
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		Α	28
Operational current le			
	AC-3 (≤440V ≤55°C)	Α	12
	AC-4 (400V)	Α	7.9
Rated operational power AC-6b (T≤40°C)			
	230V	kvar	7
	400V	kvar	12.5
	500V	kvar	14
	690V	kvar	16
Short-time allowable current for 10s (IEC/EN60947-1)		Α	150
Protection fuse			
	gG (IEC)	Α	25
	aM (IEC)	Α	12
Making capacity (RMS value)		Α	120
Breaking capacity at voltage			
	440V	Α	96
	500V	Α	96
	690V	Α	94
Resistance per pole (average value)		mΩ	2.5
Power dissipation per pole (average value)			
	lth	W	2
	AC3	W	0.4
Tightening torque for terminals			
	min	Nm	1.5
	max	Nm	1.8
	min	lbin 	1.1
	max	Ibin	1.5
Tightening torque for coil terminal	<u>.</u>		
	min	Nm	0.8
	max	Nm	1
	min	lbft	0.8
Maria de la Caración Researción de la Caración de l	max	lbft	0.74
Max number of wires simultaneously connectable		nr.	2
Conductor section			
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
Mechanical features			
Operating position			
	normal		vertical plan
	allowable		±30°
Fixing			Screw / DIN rail 35mm
Weight		g	418
Auxiliary contact characteristics			
Type of contact			1 NO
Thermal current Ith		Α	10
IEC/EN 60947-5-1 designation			A600 - P600
Operating current AC15			
- Polishing 68/10/10/10	230V	Α	3
	400V	A	1.9
	500V	A	1.4
Operating current DC12	300 V		1.7
Operating current DO12	110V	Α	5.7
Operating current DC13			
	24V	Α	5.7
	48V	Α	2.9
	60V	Α	2.3
	110V	Α	1.25
	125V	Α	1.1
	220V	Α	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
mech	nanical load	cycles	20000000
Mirror contats according to IEC/EN 609474-4-1			true
EMC compatibility			Yes
AC coil operating			
Rated AC voltage at 50/60Hz, 60Hz			
	min	V	12
	max	V	600
AC operating voltage			
of 50/60Hz coil powered at 50Hz			
pick-up			
1 - 2 - 21	max	%Us	110
drop-out		-	
3.4F 04.	min	%Us	20
	max	%Us	55



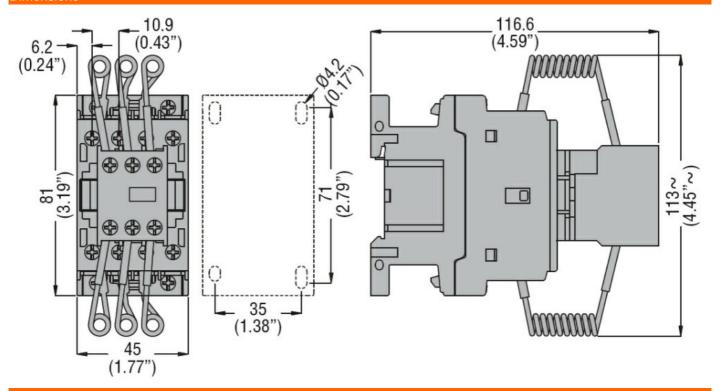
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of 50/60Hz c	oil powered at 60Hz			
	pick-up			
		min	%Us	85
		max	%Us	110
	drop-out			
	·	min	%Us	20
		max	%Us	55
C operating voltage at 20°C			,,,,,	
	oil powered at 50Hz			
01 00/00112 0	on powered at our iz	in-rush	VA	75
		holding	VA	9
of 50/001 l= 0	ail naviored at COLI-	Holding	VA	9
01 50/60H2 0	oil powered at 60Hz	مامين سيا	١/٨	70
		in-rush	VA	70
		holding	VA	6.5
of 60Hz coil p	powered at 60Hz			
		in-rush	VA	75
		holding	VA	9
oissipation at holding ≤20°C 50Hz			W	2.5
lax cycles frequency				
lechanical operations			cycles/h	3600
perating times				
verage time for Us control				
in AC				
111710	Closing NO			
	Closing NO	min	ms	8
	0	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
in DC				
20	Closing NO			
	2.229	min	ms	54
		max	ms	66
	Opening NO	IIIdX	1113	50
	Opening NO	na!-	mc	1.4
		min	ms	14
	Olasia NO	max	ms	17
	Closing NC			0.4
		min	ms	24
		max	ms	30
	Opening NC			
		min	ms	47
		max	ms	57
L technical data				
	se AC motor			
L technical data ull-load current (FLA) for three-phas	se AC motor	at 480\/	Δ	11
	se AC motor	at 480V	A A	11 11
ull-load current (FLA) for three-phas	se AC motor	at 480V at 600V	A A	11 11
ull-load current (FLA) for three-phas	se AC motor ase AC motor			



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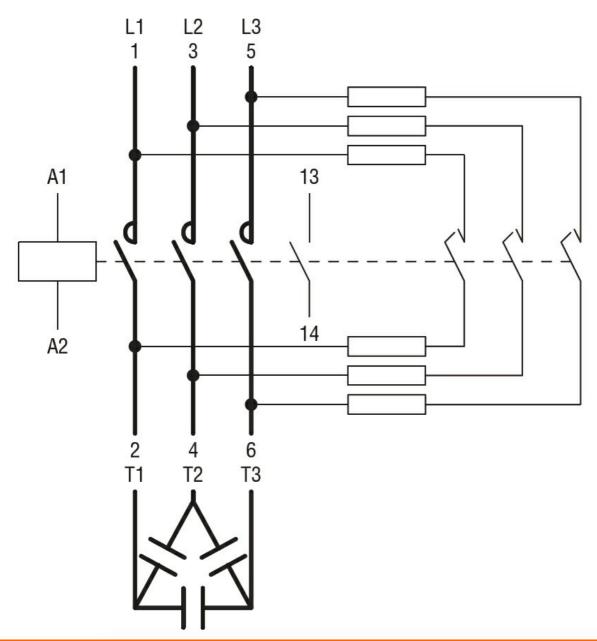
	110/120V	hp	1
	230V	hp	2
for three-phase AC motor			
	200/208V	hp	5
	220/230V	hp	5
	460/480V	hp	7.5
	575/600V	hp	10
Contact rating of auxiliary contacts according to UL			A600 - P600
General USE			
Auxiliary contacts			
·	AC voltage	V	600
	AC current	Α	10
	DC voltage	V	250
	DC current	Α	1
Ambient conditions			
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			



Wiring diagrams



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Certifications and compliance

Compliance

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

Certificates

CCC

cULus

EAC

ETIM 6 classification

EC000066 - Power contactor, AC switching