

FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 32A, AC COIL 60HZ, 120VAC, 4NC



Product designation Product type designation			Power contactor BF18
Contact characteristics			5. 10
Number of poles		Nr.	4
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	32
Operational current le			
	AC-1 (≤40°C)	Α	32
	AC-1 (≤55°C)	Α	26
	AC-1 (≤70°C)	Α	23
	AC-3 (≤440V ≤55°C)	Α	18
	AC-4 (400V)	Α	8.5
Rated operational power AC-1 (T≤40°C)			
	230V	kW	12
	400V	kW	21
	500V	kW	26
	690V	kW	36
Short-time allowable current for 10s (IEC/EN60947-1)		Α	200
Protection fuse			
	gG (IEC)	Α	32
	aM (IEC)	Α	20
Making capacity (RMS value)		Α	180
Breaking capacity at voltage			
	440V	Α	144
	500V	Α	120
	690V	Α	94
Resistance per pole (average value)		$m\Omega$	2.5
Power dissipation per pole (average value)			
	Ith	W	2.6
	AC-3	W	0.8
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	Ibin	0.8
	max	lbin	0.74
Max number of wires simultaneously connectable		Nr.	2





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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 section	2	
min	mm² mm²	1
max	IIIII-	IP20 when
Power terminal protection according to IEC/EN 60529		properly wired
Mechanical features		property innec
Operating position		
normal		Vertical plan
allowable		±30°
Fixing		Screw / DIN rail 35mm
Weight	g	360
Conductor section		
AWG/kcmil conductor section		
max		10
Auxiliary contact characteristics	^	0.0
Thermal current Ith	A	32
EC/EN 60947-5-1 designation Operations		A600 - P600
Mechanical life	cycles	20000000
Electrical life	cycles	1600000
Safety related data	Cycloc	1000000
Performance level B10d according to EN/ISO 13489-1		
rated load	cycles	1600000
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	120
AC operating voltage		
of 60Hz coil powered at 60Hz		
pick-up	0/116	0.0
min		80 110
max drop-out	/0US	110
		20
	%l le	/()
min	%Us %Us	20 55
min max		55
min		
min max AC average coil consumption at 20°C		
min max AC average coil consumption at 20°C of 60Hz coil powered at 60Hz	%Us	55
min max AC average coil consumption at 20°C of 60Hz coil powered at 60Hz in-rush holding Dissipation at holding ≤20°C 50Hz	%Us VA	75
min max AC average coil consumption at 20°C of 60Hz coil powered at 60Hz in-rush holding	%Us VA VA	75 9 2.5

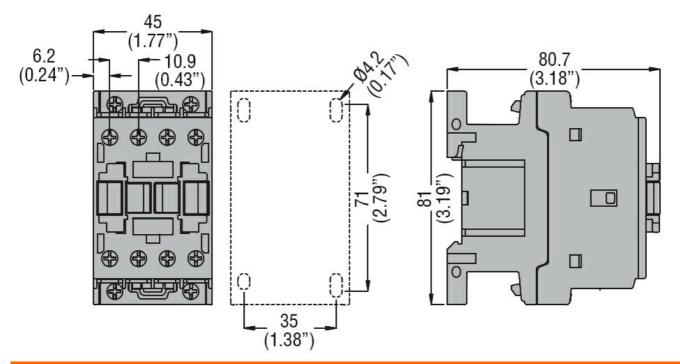


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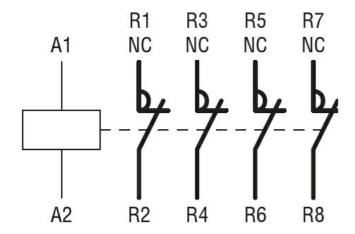
Operating times				
Average time for Us	control			
7 Wordgo timo for Co	in AC			
	Closing NO			
	3.00mg 113	min	ms	8
		max	ms	24
	Opening NO	mex		
	opening ite	min	ms	10
		max	ms	20
	Closing NC	тах	1110	20
	Clocking IVE	min	ms	14
		max	ms	28
	Opening NC	тах	1110	20
	Opening IVO	min	ms	7
		max	ms	, 18
UL technical data		Παλ	1113	
	A) for three-phase AC motor			
T UII TOUG CUTTETIL (FL	Ty lot tilled phase Ao motor	at 480V	Α	14
		at 600V	A	17
Yielded mechanical	porformanco	al 000 V	^	1 /
rielded mechanical				
	for single-phase AC motor	440/420\/	UD	4
		110/120V	HP	1
	feether alone AQ and a	230V	HP	3
	for three-phase AC motor	000/000/	ш	_
		200/208V	HP	5
		220/230V	HP	5
		460/480V	HP	10
		575/600V	HP	15
General USE				
	Contactor			
		AC current	Α	32
	Auxiliary contacts			
		AC voltage	V	600
		AC current	Α	10
		DC voltage	V	250
		DC current	Α	1
	iliary contacts according to UL			SI - A600
Ambient conditions				
Temperature				
	Operating temperature			
		min	°C	-50
		max	°C	70
	Storage temperature			
		min	°C	-60
		max	°C	80
Max altitude			m	3000
Resistance & Protect	tion			
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

EC000066 -Power contactor, AC switching