

FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 32A, AC COIL 60HZ, 220VAC, 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 max	(10
Flexible w/o lug conductor section		
mir	n mm²	1
max	c mm²	6
Flexible c/w lug conductor section		
mir		1
max	c mm²	4
Flexible with insulated spade lug conductor section		4
mir max	_	1 4
	K HIIII	IP20 when
ower terminal protection according to IEC/EN 60529		properly wired
lechanical features		1 1 1
Pperating position		
norma	I	Vertical plan
allowable)	±30°
ixing		Screw / DIN rail 35mm
Veight	g	340
Conductor section		
AWG/kcmil conductor section		
max	(10
uxiliary contact characteristics	^	0.0
hermal current lth	A	32
EC/EN 60947-5-1 designation Operations		A600 - P600
Mechanical life	cycles	20000000
lectrical life	cycles	1600000
afety related data	0,0.00	100000
erformance level B10d according to EN/ISO 13489-1		
rated load	cycles	1600000
mechanical load	-	20000000
firror contats according to IEC/EN 609474-4-1		YES
MC compatibility		yes
C coil operating		
ated AC voltage at 60Hz	V	220
C operating voltage		
of 60Hz coil powered at 60Hz		
pick-up	0/11-	80
mir max		110
max drop-out	· /0US	110
ατορ-ουί mir	n %Us	20
		55
max		
.C average coil consumption at 20°C		
.C average coil consumption at 20°C of 60Hz coil powered at 60Hz		
C average coil consumption at 20°C	n VA	75
C average coil consumption at 20°C of 60Hz coil powered at 60Hz		75 9
C average coil consumption at 20°C of 60Hz coil powered at 60Hz in-rush holding vissipation at holding ≤20°C 50Hz		
C average coil consumption at 20°C of 60Hz coil powered at 60Hz in-rush holding	y VA	9 2.5

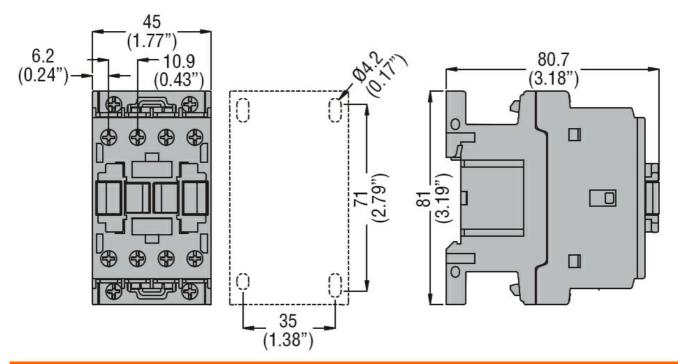


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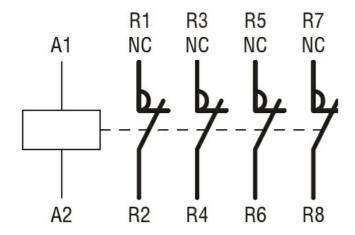
Operating times Average time for Us control in AC	
Closing NO	
	8
	24
Opening NO	
	10
	20
Closing NC	
· · · · · · · · · · · · · · · · · · ·	14
	28
Opening NC	
	7
	18
UL technical data	
Full-load current (FLA) for three-phase AC motor	
·	14
	17
Yielded mechanical performance	• •
for single-phase AC motor	
110/120V HP 1	1
	3
for three-phase AC motor	<u> </u>
	Ę.
	5 5
	10
	15
General USE	10
Contactor	
	20
	32
Auxiliary contacts	200
v	600
	10
· · · · · · · · · · · · · · · · · · ·	250 •
	1
<u> </u>	SI - A600
Ambient conditions	
Temperature	
Operating temperature	50
	-50
	70
Storage temperature	
	-60
	80
	3000
Resistance & Protection	
	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