

## FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 32A, AC COIL 60HZ, 24VAC, 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				
Conductor Section	AWG/Kcmil			
	/ W O/ Comm	max		10
	Flexible w/o lug conductor section			
	9	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		2	4
		min max	mm² mm²	1 4
		IIIdX	111111	IP20 when
Power terminal protect	ction according to IEC/EN 60529			properly wired
Mechanical features				. , ,
Operating position				
		normal		Vertical plan
		allowable		±30°
Fixing				Screw / DIN rail 35mm
Weight			g	362
Conductor section				
	AWG/kcmil conductor section			4.0
Auxilian contact char	actoriation	max		10
Auxiliary contact chara Thermal current Ith	acteristics		Α	32
IEC/EN 60947-5-1 de	signation			A600 - P600
Operations	Signation			7,000 1 000
Mechanical life			cycles	20000000
Electrical life			cycles	1600000
Safety related data				
Performance level B1	0d according to EN/ISO 13489-1			
		rated load	cycles	1600000
		mechanical load	cycles	20000000
	ng to IEC/EN 609474-4-1			YES
EMC compatibility				yes
AC coil operating	2011-		V	24
Rated AC voltage at 6 AC operating voltage	UNZ		V	24
AS operating voltage	of 60Hz coil powered at 60Hz			
	pick-up			
	Pion up	min	%Us	80
		max	%Us	110
	drop-out			
		min	%Us	20
		max	%Us	55
AC average coil cons				
	of 60Hz coil powered at 60Hz		1.75	7-
		in-rush	VA	75
Discinction at holding	<20°C 50H-	holding	VA W	9 2.5
Dissipation at holding Max cycles frequency			VV	۵.۵
Mechanical operation			cycles/h	3600
wiconanical operation			Cycles/II	3000



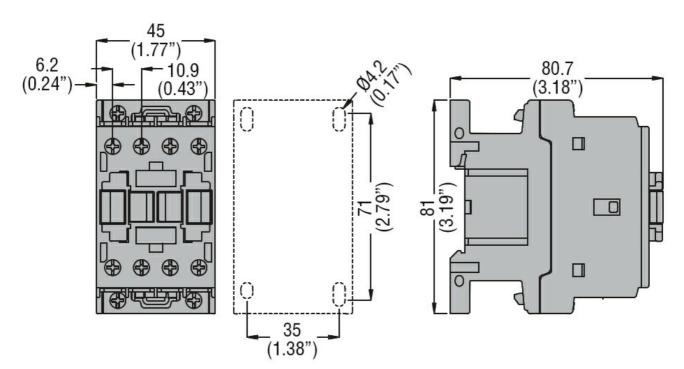
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Operating times				
Average time for Us	control			
7 Wordgo timo for Co	in AC			
	Closing NO			
	3.00mg 113	min	ms	8
		max	ms	24
	Opening NO	mex	1110	
	opening ite	min	ms	10
		max	ms	20
	Closing NC	тах	1110	20
	Clocking IVE	min	ms	14
		max	ms	28
	Opening 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
	<u></u>	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				

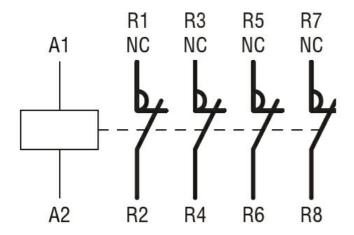
24VAC, 4NC



#### **ENERGY AND AUTOMATION**



## 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