

FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 32A, AC COIL 50/60HZ, 110VAC, 4NC



Product designation Product type designation			Power contactor BF18
Contact characteristics			21.10
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)		A	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)		mΩ	2.5
Power dissipation per pole (average value)			
	Ith	W	2.6
Title de la companya	AC-3	W	0.8
Tightening torque for terminals			
	min	Nm Næ	1.5
	max	Nm	1.8
	min	Ibin	1.1
Tightoning torque for coil terminal	max	Ibin	1.5
Tightening torque for coil terminal	د	Nies	0.0
	min	Nm Nm	0.8
	max	Nm Ibin	1 0.8
	min		
May number of wires simultaneously connectable	max	Ibin Nr.	0.74 2
Max number of wires simultaneously connectable		INI.	۷





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Conductor section				
	AWG/Kcmil			
		max		10
	Flexible w/o lug conductor section	min	mm²	1
		min max	mm² mm²	1 6
	Flexible c/w lug conductor section	max		
	•	min	mm²	1
		max	mm²	4
	Flexible with insulated spade lug conductor section			
		min max	mm² mm²	1 4
		Παλ	111111	IP20 when
Power terminal protec	ction according to IEC/EN 60529			properly wired
Mechanical features				
Operating position				
	all a	normal owable		Vertical plan ±30°
	all	Owable		Screw / DIN rail
Fixing				35mm
Veight			g	360
Auxiliary contact chara	acteristics			
Thermal current Ith			Α	32
EC/EN 60947-5-1 de	esignation			A600 - P600
Operations Mechanical life			cycles	20000000
Electrical life			cycles	1600000
Safety related data			,	
Performance level B1	0d according to EN/ISO 13489-1			
		ed load	cycles	1600000
TMC compatibility	mechanic	cal load	cycles	20000000
EMC compatibility AC coil operating				yes
Rated AC voltage at 5	50/60Hz		V	110
AC operating voltage				
_	of 50/60Hz coil powered at 50Hz			
	pick-up			
		min	%Us	80
	drop-out	max	%Us	110
	Grop out	min	%Us	20
		max	%Us	55
	of 50/60Hz coil powered at 60Hz			
	pick-up			
		min	%Us	85
	drop-out	max	%Us	110
	diop-out	min	%Us	20
		max	%Us	55
AC average coil cons	umption at 20°C			
	of 50/60Hz coil powered at 50Hz			
		in-rush	VA	75
		holding	VA	9
	of 50/60Hz coil powered at 60Hz			





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		in-rush	VA	70
		holding	VA	6.5
	of 60Hz coil powered at 60Hz	<u> </u>		
	•	in-rush	VA	75
		holding	VA	9
Dissipation at holding	≤20°C 50Hz	<u> </u>	W	2.5
Max cycles frequency				
Mechanical operation			cycles/h	3600
Operating times			·	
Average time for Us co	ontrol			
· ·	in AC			
	Closing NO			
	Ç	min	ms	8
		max	ms	24
	Opening NO			
		min	ms	10
		max	ms	20
	Closing NC		•	
	Ç	min	ms	14
		max	ms	28
	Opening NC			
	-1 3	min	ms	7
		max	ms	18
UL technical data				
Rated operational volta	age AC (UL)		V	600
) for three-phase AC motor			
,	•	at 480V	Α	14
		at 600V	Α	17
Yielded mechanical pe	erformance			
·	for single-phase AC motor			
	io. o.i.g.o pilaco / io ilioto.	110/120V	HP	1
		230V	HP	3
	for three-phase AC motor			
		200/208V	HP	5
		220/230V	HP	5
		460/480V	HP	10
		575/600V	HP	15
General USE		2.3,000		-
	Contactor			
		AC current	Α	32
	Auxiliary contacts			
	,	AC voltage	V	600
		AC current	Å	10
		DC voltage	V	250
		DC current	Ā	1
Contact rating of auxilia	ary contacts according to UL			SI - A600
Ambient conditions				
Temperature				
	Operating temperature			
	- F - 1 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2	min	°C	-50
		max	°C	70
	Storage temperature	max		. •
	otorago temperature	min	°C	-60
		max	°C	80
		IIIdX		

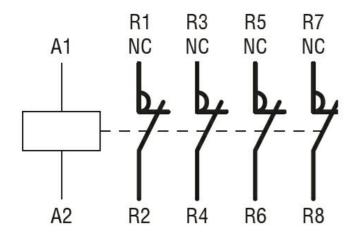
ENERGY AND AUTOMATION

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Max altitude	m	3000
Resistance & Protection		
Pollution degree		3
Dimensions		

(1.38")

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



BF18T0A110

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ETIM 8.0

EC000066 -Power contactor, AC switching