## FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 32A, DC COIL, 48VDC,



Product designation Product type designation			Power contactor BF18
Contact characteristics			
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)	A	8.5
Rated operational power AC-1 (T≤40°C)			
	230V	kW	12
	400V	kW	21
	500V	kW	26
01 + 12 - 14 - 14 - 15 - 15 - 15 - 15 - 15 - 15	690V	kW	36
Short-time allowable current for 10s (IEC/EN60947-1)		Α	200
Protection fuse	.0 (150)		00
	gG (IEC)	A	32
Making appairs (DMC value)	aM (IEC)	A	20
Making capacity (RMS value)		Α	180
Breaking capacity at voltage	440\/	۸	1 1 1
	440V 500V	A	144 120
	690V	A A	94
Resistance per pole (average value)	090 V	mΩ	2.5
Power dissipation per pole (average value)		11132	2.0
Tower dissipation per pole (average value)	Ith	W	2.6
	AC-3	W	0.8
Tightening torque for terminals	7.00	• • •	
	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	lbin	0.8
	max	lbin	0.74
Max number of wires simultaneously connectable		Nr.	2



### FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 32A, DC COIL, 48VDC,

Conductor section	NWO #4		
	AWG/Kcmil		10
	Flexible w/o lug conductor section		10
	min	mm²	1
	max		6
	Flexible c/w lug conductor section		
	min	mm²	1
	max	mm²	4
	Flexible with insulated spade lug conductor section		
	min		1
	max	mm²	4
Power terminal protect	tion according to IEC/EN 60529		IP20 when properly wired
Mechanical features			
Operating position			
	normal		Vertical plan
	allowable		±30°
Fixing			Screw / DIN rail 35mm
Weight		g	500
Conductor section			
	AWG/kcmil conductor section		
	max		10
Auxiliary contact chara	cteristics		
Thermal current Ith		A	32
IEC/EN 60947-5-1 des	signation		A600 - P600
Operations Mechanical life		ovoloo	20000000
Electrical life		cycles	20000000 1600000
Safety related data		cycles	1600000
	Od according to EN/ISO 13489-1		
r chomianoc level Biv	rated load	cycles	1600000
	mechanical load	cycles	2000000
Mirror contats according	ng to IEC/EN 609474-4-1	-,	YES
EMC compatibility	9.00		yes
DC coil operating			,
DC rated control voltage	ge	V	48
DC operating voltage			
	pick-up		
	min		70
	max	%Us	125
	drop-out		
	min		10
A	max 100°C	%Us	40
Average coil consump		147	<b>5</b> 4
	in-rush		5.4
Max cycles frequency	holding	W	5.4
Mechanical operation		cycles/h	3600
Operating times		Cycles/II	3000
Average time for Us co	ontrol		
, worage time for US Cl	:- AO		

in AC

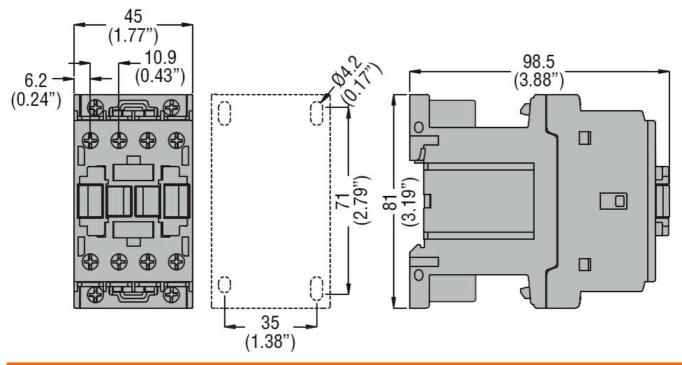
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	Closing NO			
	Closing NO	min	ms	8
		max	ms	24
	Opening NO	IIIdA	1113	24
	Opening NO	min	ms	10
		max	ms	20
	Closing NC	Hax	1110	20
	Closing NO	min	ms	14
		max	ms	28
	Opening NC	max	1110	20
	Sporting 143	min	ms	7
		max	ms	18
	in DC			
	Closing NC			
	G.GGig	min	ms	24
		max	ms	30
	Opening NC			
		min	ms	47
		max	ms	57
UL technical data				
	for three-phase AC motor			
		at 480V	Α	14
		at 600V	Α	17
Yielded mechanical pe	erformance			
	for single-phase AC motor			
		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				
	Contactor			
		AC current	Α	32
	Auxiliary contacts			
		AC voltage	V	600
		AC current	Α	10
		DC voltage	V	250
		DC current	Α	
	ary contacts according to UL			SI - A600
Ambient conditions				
Temperature				
	Operating temperature		0.0	
		min	°C	-50 -70
	01	max	°C	70
	Storage temperature		0.0	00
		min	°C	-60
NA ICC   I		max	°C	80
Max altitude	20		m	3000
Resistance & Protection	n			2
Pollution degree Dimensions				3

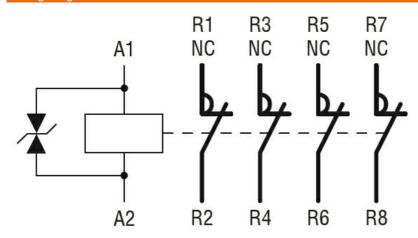


**ENERGY AND AUTOMATION** 

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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