

# FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 32A, DC COIL LOW CONSUMPTION, 24VDC, 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			
AWG/KCIIII	max		10
Flexible w/o lug conductor section	IIIdA		10
Tionible the lag contactor coolien	min	mm²	1
	max	mm²	6
Flexible c/w lug conductor section			
	min	mm²	1
	max	mm²	4
Flexible with insulated spade lug conductors			
	min	mm²	1
	max	mm²	4
Power terminal protection according to IEC/EN 60529			IP20 when properly wired
Mechanical features			1 1 2
Operating position			
	normal		Vertical plan
	allowable		±30°
Fixing			Screw / DIN rail 35mm
Weight		g	502
Conductor section			
AWG/kcmil conductor section			
	max		10
Auxiliary contact characteristics			
Thermal current Ith		A	32
IEC/EN 60947-5-1 designation			A600 - P600
Operations  Mechanical life		ovoloo	20000000
Electrical life		cycles cycles	1600000
Safety related data		Cycles	1600000
Performance level B10d according to EN/ISO 13489-1			
r one-manus level 2 rea according to 214766 re les r	rated load	cycles	1600000
	mechanical load	cycles	20000000
Mirror contats according to IEC/EN 609474-4-1			YES
EMC compatibility			yes
AC coil operating			
AC operating voltage			
of 50/60Hz coil powered at 50Hz			
drop-out			
	max	%Us	55
DC coil operating			
DC rated control voltage		V	24
DC operating voltage			
pick-up			
	min	%Us	80
	max	%Us	110
drop-out	•	0/11-	10
	min	%Us	10
Average coil consumption <20°C	max	%Us	40
Average coil consumption ≤20°C	والمناسبة	۱۸/	2.4
	in-rush	W	2.4
	holding	W	2.4



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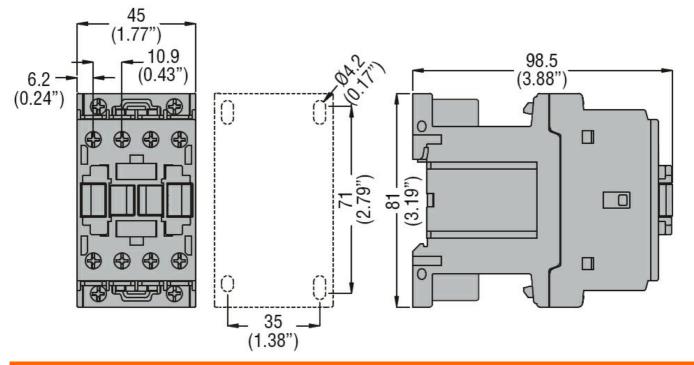
Max cycles frequency			
Mechanical operation		cycles/h	3600
Operating times			
Average time for Us co			
	in AC		
	Closing NO		
	min	ms	8
	max	ms	24
	Opening NO		40
	min	ms	10
	Clasing NC	ms	20
	Closing NC min	mc	14
		ms ms	28
	max Opening NC	ms	20
	min	ms	7
	max	ms	18
	in DC	1113	
	Closing NC		
	min	ms	24
	max	ms	30
	Opening NC		
	min	ms	67
	max	ms	81
UL technical data			
Full-load current (FLA)	for three-phase AC motor		
	at 480V	Α	14
	at 600V	Α	17
Yielded mechanical pe	rformance		
	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	. ,	000
	AC voltage	V	600
	AC current	A	10
	DC voltage	V	250
Contact active of a ""	DC current	A	1
	ary contacts according to UL		SI - A600
Ambient conditions			
Temperature			
	Operating temperature	۰.	50
	min	°C	-50
	Character to the control of the cont	°C	70
	Storage temperature	0.0	00
	min	°C	-60
	max	°C	80

**ENERGY AND AUTOMATION** 

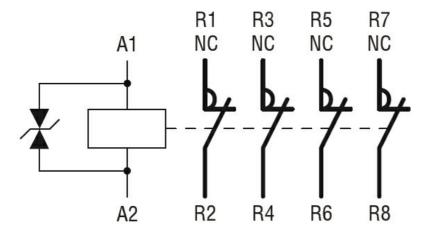
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Max altitude m 3000
Resistance & Protection
Pollution degree 3

#### **Dimensions**



#### 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



### BF18T0L024

FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 32A, DC COIL LOW CONSUMPTION, 24VDC, 4NC

ETIM 8.0

EC000066 -Power contactor, AC switching