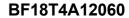


# FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 32A, AC COIL 60HZ,



Product designation Product type designation			Power contactor BF18
Contact characteristics			DE 10
Number of poles		Nr.	4
Rated insulation voltage Ui IEC/EN		V	690
Rated impulse withstand voltage Uimp		kV	6
Operational frequency			
Sporational modulonoy	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
IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series			
	≤24V	Α	17
	48V	Α	15
	75V	Α	15
	110V	Α	6
·	220V	Α	_
IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series			
	≤24V	Α	20
	48V	Α	20
	75V	Α	20
	110V	A	13
150	220V	Α	1
IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series	-0.07	Α.	00
	≤24V	A	22
	48V 75V	A	22
	110V	A	20
		A	16
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series	220V	Α	11
	≤24V	٨	22
	≤24V 48V	A A	22
	75V	A	20
	110V	A	18
	220V	A	13
	2200	А	13





# FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 32A, AC COIL 60HZ, 120VAC

IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series			
	≤24V	Α	12
	48V	Α	11
	75V	Α	11
	110V	Α	2
	220V	Α	_
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series			
·	≤24V	Α	15
	48V	Α	13
	75V	Α	13
	110V	Α	8
	220V	Α	2
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series	220 V	,,	
120 max current to in 200-200 with 2/10 2 forms with a poles in series	≤24V	Α	18
	48V	A	18
	75V	A	16
	110V	A	12
150 DOS DOS 111 L D 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	220V	Α	6
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series	.=	_	
	≤24V	Α	18
	48V	Α	18
	75V	Α	16
	110V	Α	13
	220V	Α	8
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)		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
Tightoning tarque for terminals	AC-3	V V	0.0
Tightening torque for terminals	:	Nima	1 5
	min	Nm Nas	1.5
	max	Nm	1.8
	min	lbin	1.1
	max	Ibin	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
Conductor section			
AWG/Kcmil			
	max		10
Flexible w/o lug conductor section			
	min	mm²	1
	,,,,,,		•





## FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 32A, AC COIL 60HZ,

			2	0
	Electrical designation	max	mm²	6
	Flexible c/w lug conductor	section min	mm²	1
		max	mm²	1
	Flexible with insulated space		111111	7
	i ionibio with indulated spat	min	mm²	1
		max	mm²	4
D	('			IP20 when
Power terminal protec	tion according to IEC/EN 605	529		properly wired
Mechanical features				
Operating position				
		normal		Vertical plan
		allowable		±30°
Fixing				Screw / DIN rail
				35mm
Weight			g	354
Conductor section	AWG/kcmil conductor sect	ion		
	AVVG/KCITIII CONDUCTOR Sect			10
Operations		max		1 U
Mechanical life			cycles	20000000
Electrical life			cycles	1600000
Safety related data			5,0103	. 555555
· · · · · · · · · · · · · · · · · · ·	Od according to EN/ISO 1348	39-1		
	ou dood umg to _ 1,1,100 10 10	rated load	cycles	1600000
		mechanical load	cycles	20000000
Mirror contats according	ng to IEC/EN 609474-4-1			yes
EMC compatibility				yes
AC coil operating				
Rated AC voltage at 6	0Hz		V	120
AC operating voltage				
	of 60Hz coil powered at 60			
	pic	k-up		
		min	%Us	80
		max	%Us	110
	dro	pp-out	0/115	20
		min max	%Us %Us	20 55
AC average coil consu	imption at 20°C	IIIdX	/005	00
, to average our const	of 60Hz coil powered at 60	H <sub>Z</sub>		
	5. 55112 5011 powerou at 60	in-rush	VA	75
		holding	VA	9
Dissipation at holding	≤20°C 50Hz	- <del></del>	W	2.5
Max cycles frequency				
Mechanical operation			cycles/h	3600
Operating times				
Average time for Us co	ontrol			
	in AC			
	Clo	osing NO		
		min	ms	8
	_	max	ms	24
	Ор	ening NO		4.0
		min	ms	10
		max	ms	20



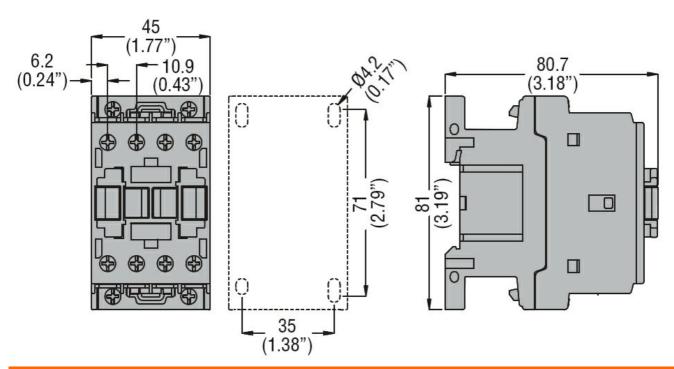


## FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 32A, AC COIL 60HZ,

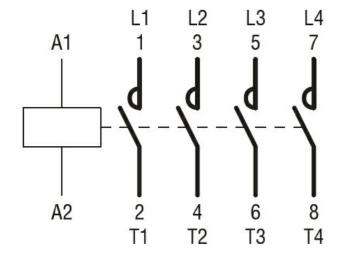
	Closing NC					
	-	min	ms	14		
		max	ms	28		
	Opening NC					
	, ,	min	ms	7		
		max	ms	18		
UL technical data						
Full-load current (FLA) for three-phase AC motor						
		at 480V	Α	14		
		at 600V	Α	17		
Yielded mechanical pe	erformance					
·	for single-phase AC motor					
	3 1	110/120V	HP	1		
		230V	HP	3		
	for three-phase AC motor	<u> </u>				
		200/208V	HP	5		
		220/230V	HP	5		
		460/480V	HP	10		
		575/600V	HP	15		
General USE						
	Contactor					
		AC current	Α	32		
Short-circuit protection	fuse, 600V					
- · · · · · · · · · · · · · · · · · · ·	High fault					
	•	Short circuit current	kA	100		
		Fuse rating	Α	60		
		Fuse class		J		
	Standard fault					
		Short circuit current	kA	5		
		Fuse rating	Α	80		
Ambient conditions						
Temperature						
1	Operating temperature					
	1 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	min	°C	-50		
		max	°C	70		
	Storage temperature					
		min	°C	-60		
		max	°C	80		
Max altitude			m	3000		
Resistance & Protection	on					
Pollution degree				3		
Dimensions						



#### 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