



			_
Product designation			Power contactor
Product type designation			BF18
Contact characteristics		Nie	4
Number of poles		Nr. V	4 690
Rated insulation voltage Ui IEC/EN		kV	6
Rated impulse withstand voltage Uimp		KV	В
Operational frequency	min	LJ	25
	min	Hz Hz	25 400
IEC Conventional free air thermal current Ith	max	A	32
Operational current le		A	32
Operational current le	AC 1 (<10°C)	۸	22
	AC-1 (≤40°C)	A	32
	AC-1 (≤55°C) AC-1 (≤70°C)	A	26 23
	AC-1 (≤70 C) AC-3 (≤440V ≤55°C)	A	23 18
	AC-3 (\$440V \$55 C) AC-4 (400V)	A A	8.5
Poted energtional newer AC 1 (Tc/10°C)	AC-4 (400V)	A	0.0
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	090 V	KVV	
ILO max current le in DOT with L/N 2 mis with 1 poles in series	≤24V	Α	17
	48V	A	15
	75V	A	15
	110V	A	6
	220V	Α	_
IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series	2201		
TEO THEX CUITOR TO IT DO I WAIT LIVE THIS WAIT 2 POICE IT COILCE	≤24V	Α	20
	48V	A	20
	75V	A	20
	110V	A	13
	220V	Α	1
IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series			
	≤24V	Α	22
	48V	Α	22
	75V	Α	20
	110V	Α	16
	220V	Α	11
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series			
·	≤24V	Α	22
	48V	Α	22
	75V	Α	20
	110V	Α	18
	220V	Α	13



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	_
IFC max current le in	DC3-DC5 with L/R ≤ 15ms with 2 poles in series		- ' '	
ILO Max ourrent le in i	200 200 With 2/1 = 10/110 With 2 police in school	≤24V	Α	15
		324 V 48 V	A	13
		75V	A	13
		110V	Α	8
		220V	Α	2
IEC max current le in	DC3-DC5 with L/R ≤ 15ms with 3 poles in series			
		≤24V	Α	18
		48V	Α	18
		75V	Α	16
		110V	Α	12
		220V	Α	6
IFC max current le in	DC3-DC5 with L/R ≤ 15ms with 4 poles in series		- •	
LO MAX GUITERILIE III	200 200 Milit Eff. = 101113 Will 4 poles III selles	≤24V	Α	18
		48V	A	18
		75V	Α	16
		110V	Α	13
		220V	Α	8
Short-time allowable of	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 v				
breaking capacity at v	onage	440V	Α	144
		500V		
			A	120
		690V	Α	94
Resistance per pole (a	- ·		mΩ	2.5
Power dissipation per	pole (average value)			
		Ith	W	2.6
		AC-3	W	0.8
Tightening torque for t	erminals			
- •		min	Nm	1.5
		max	Nm	1.8
		min	lbin	1.1
		max	lbin	1.5
Tightening torque for o	coil terminal	Παλ	10111	1.0
rigiliering lorque for C	on Ginna		N.I	0.0
		min	Nm	0.8
		max	Nm	1
		min	lbin	0.8
		max	lbin	0.74
Max number of wires s	simultaneously connectable		Nr.	2
Conductor section				
	AWG/Kcmil			
		max		10
	Flexible w/o lug conductor section	тих		. •
	1 loxible w/o lag conductor section	min	mm²	1
		111111	111111	1





	max	mm²	6
	Flexible c/w lug conductor section	2	
	min	mm²	1
	Tlevible with insulated anade lug conductor costion	mm²	4
	Flexible with insulated spade lug conductor section	mm²	1
	min max	mm²	1 4
		111111	IP20 when
Power terminal protect	tion according to IEC/EN 60529		properly wired
Mechanical features			properly miss
Operating position			
	normal		Vertical plan
	allowable		±30°
Finding or			Screw / DIN rail
Fixing			35mm
Weight		g	502
Conductor section			
	AWG/kcmil conductor section		
	max		10
Operations			
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
DC coil operating			
DC rated control voltage	ј е	V	24
DC operating voltage			
	pick-up		
	min	%Us	80
	max	%Us	110
	drop-out		
	min	%Us	10
	max	%Us	40
Average coil consump		147	•
	in-rush	W	2.4
	holding	W	2.4
May avales for			
Max cycles frequency			2000
Mechanical operation		cycles/h	3600
Mechanical operation Operating times		cycles/h	3600
Mechanical operation Operating times	ontrol	cycles/h	3600
Mechanical operation Operating times	ontrol in AC	cycles/h	3600
Mechanical operation Operating times	ontrol in AC Closing NO		
Mechanical operation Operating times	ontrol in AC Closing NO min	ms	8
Mechanical operation Operating times	ontrol in AC Closing NO min max		
Mechanical operation Operating times	ontrol in AC Closing NO min max Opening NO	ms ms	8 24
Mechanical operation Operating times	ontrol in AC Closing NO min max Opening NO min	ms ms	8 24 10
Mechanical operation	ontrol in AC Closing NO min max Opening NO min max	ms ms	8 24
Mechanical operation Operating times	ontrol in AC Closing NO min max Opening NO min	ms ms	8 24 10

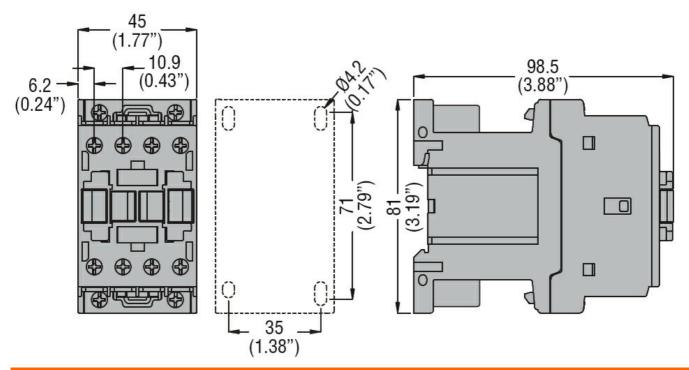




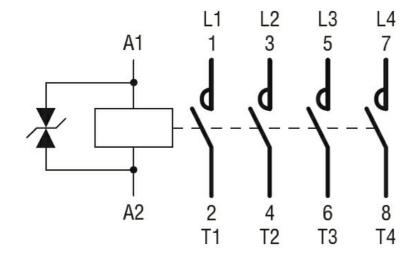
	Opening NC				
	o positive de la constante de	min	ms	7	
		max	ms	18	
	in DC	max			
	Closing NO				
	Oldshig 140	min	ms	75	
		max	ms	91	
	Opening NO	IIIdx	1113	31	
	Opening NO	min	ms	15	
				19	
UL technical data		max	ms	19	
	for three-phase AC motor				
i uli-load culterit (i LA)	ioi tillee-pliase AC filotoi	at 480V	Α	14	
V' - I I - I I ' I		at 600V	Α	17	
Yielded mechanical pe					
	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	
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		5			
Temperature					
•	Operating temperature				
	- 1	min	°C	-50	
		max	°C	70	
	Storage temperature	···an			
	Clorago tomporataro	min	°C	-60	
		max	°C	80	
Max altitude		max	m	3000	
Resistance & Protection					
				3	
Pollution degree				ა ————————————————————————————————————	
Dimensions					

ENERGY AND AUTOMATION

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



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