



Product designation			Power contactor
Product type designation			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)	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	Α	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



FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 32A, DC COIL, 60VDC

IEC max current le in l	DC3-DC5 with L/R ≤ 15ms with 1 poles in series			
		≤24V	Α	12
		48V	Α	11
		75V	Α	11
		110V	Α	2
		220V	A	_
IEC may ourrent to in I	DC2 DC5 with L/B < 15mg with 2 polog in soriog	220 V		-
IEC max current le in i	DC3-DC5 with L/R ≤ 15ms with 2 poles in series	-0.4V		4.5
		≤24V	Α	15
		48V	Α	13
		75V	Α	13
		110V	Α	8
		220V	Α	2
IEC max current le in l	DC3-DC5 with L/R ≤ 15ms with 3 poles in series			
	·	≤24V	Α	18
		48V	Α	18
		75V	A	16
		110V	A	12
	D00 D05 W 1/D : 45	220V	A	6
IEC max current le in l	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 of	current for 10s (IEC/EN60947-1)	2201	A	200
Protection fuse	diferrior 103 (IEC/EN00947-1)			200
Protection ruse		. 0 (150)	Δ.	00
		gG (IEC)	Α	32
		aM (IEC)	Α	20
Making capacity (RMS	value)		Α	180
Breaking capacity at vo	oltage			
		440V	Α	144
		500V	Α	120
		690V	Α	94
Resistance per pole (a	overane value)	0001	mΩ	2.5
			11122	2.3
Power dissipation per	pole (average value)	Tel.		0.0
		Ith	W	2.6
		AC-3	W	0.8
Tightening torque for to	erminals			
		min	Nm	1.5
		max	Nm	1.8
		min	lbin	1.1
		max	lbin	1.5
Tightening torque for o	coil terminal			-
. iginoming torquo for c	To the total and	min	Nlm	0.8
		min	Nm	
		max	Nm	1
		min	lbin	0.8
		max	lbin	0.74
	simultaneously connectable		Nr.	2
Conductor section				
	AWG/Kcmil			
		max		10
	Flexible w/o lug conductor section			-
	52.5 17.5 149 55.1445.61 5501.611	min	mm²	1
		111111		•





FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 32A, DC COIL, 60VDC

may	mm²	6
Flexible c/w lug conductor section	TUITU	0
min	mm²	1
max	mm²	4
Flexible with insulated spade lug conductor section		
min	mm²	1
max	mm²	4
Power terminal protection according to IEC/EN 60529		IP20 when
		properly wired
Mechanical features		
Operating position		\/autical plan
normal allowable		Vertical plan ±30°
		Screw / DIN rail
Fixing		35mm
Weight	g	498
Conductor section		
AWG/kcmil conductor section		
max		10
Operations		
Mechanical life	cycles	20000000
Electrical life	cycles	1600000
Safety related data		
Performance level B10d according to EN/ISO 13489-1		
rated load	cycles	1600000
mechanical load	cycles	20000000
Mirror contats according to IEC/EN 609474-4-1		yes
EMC compatibility DC coil operating		yes
DC rated control voltage	V	60
DC operating voltage	V	
pick-up		
min	%Us	70
max	%Us	125
drop-out		
min	%Us	10
max	%Us	40
Average coil consumption ≤20°C		
		5.4
in-rush	W	
holding	W W	5.4
Max cycles frequency holding	W	5.4
Max cycles frequency Mechanical operation		5.4
Max cycles frequency Mechanical operation Operating times	W	5.4
Max cycles frequency Mechanical operation Operating times Average time for Us control	W	5.4
Max cycles frequency Mechanical operation Operating times Average time for Us control in AC	W	5.4
Max cycles frequency Mechanical operation Operating times Average time for Us control in AC Closing NO	W cycles/h	3600
Max cycles frequency Mechanical operation Operating times Average time for Us control in AC Closing NO min	W cycles/h ms	5.4 3600 8
Max cycles frequency Mechanical operation Operating times Average time for Us control in AC Closing NO min max	W cycles/h	3600
Max cycles frequency Mechanical operation Operating times Average time for Us control in AC Closing NO min	W cycles/h ms	5.4 3600 8
Max cycles frequency Mechanical operation Operating times Average time for Us control in AC Closing NO min max Opening NO	W cycles/h ms ms	5.4 3600 8 24
Max cycles frequency Mechanical operation Operating times Average time for Us control in AC Closing NO min max Opening NO min	W cycles/h ms ms	5.4 3600 8 24 10
Max cycles frequency Mechanical operation Operating times Average time for Us control in AC Closing NO min max Opening NO min max	W cycles/h ms ms	5.4 3600 8 24 10

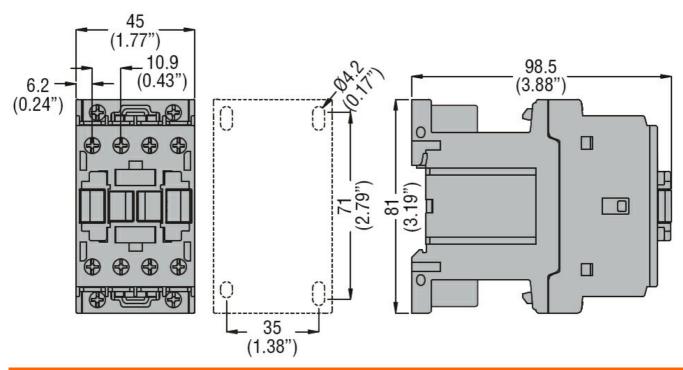




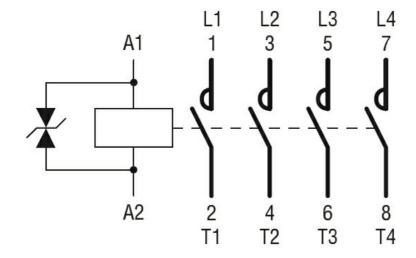
FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 32A, DC COIL, 60VDC

	Opening NC			
		min	ms	7
		max	ms	18
	in DC			
	Closing NO			
	Olosing No	min	ms	54
		max	ms	66
	Opening NO	IIIdx	1113	00
	Opening NO	min	mc	14
			ms	17
UL technical data		max	ms	17
) for three phase AC mater			
Full-load current (FLA) for three-phase AC motor	-1.4001/	^	4.4
		at 480V	A	14
		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	n fuse, 600V			
	High fault			
	- ngiri aan	Short circuit current	kA	100
		Fuse rating	A	60
		Fuse class	, ,	J
	Standard fault	1 430 01433		
	Standard fault	Short circuit current	kA	5
		Fuse rating	A	80
Ambient conditions		i use ratifly	^	
Temperature				
remperature	Operating temperature			
	Operating temperature	wa !···	°C	5 0
		min		-50 70
	-	max	°C	70
	Storage temperature		0.0	00
		min	°C	-60
		max	°C	80
Max altitude			m	3000
Resistance & Protecti	on			
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

ETIM 8.0

EC000066 -Power contactor, AC switching