



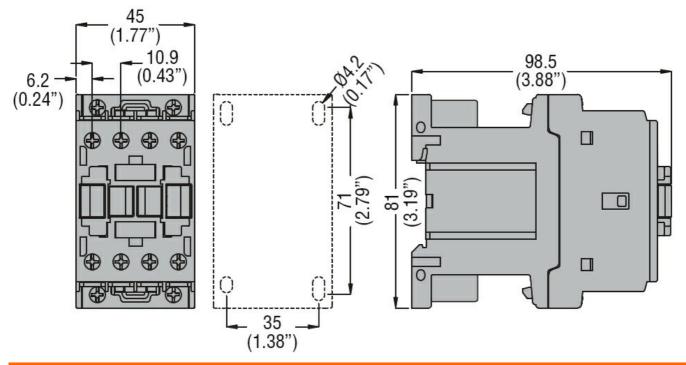
Product designation Product type designation			Power contactor BF18
Contact characteristics			
Number of poles		Nr.	4
Rated insulation voltage Ui IEC/EN		V	690
Rated impulse withstand voltage Uimp		kV	6
Operational frequency			
	min	Hz	25
	max	Hz	400
IEC Conventional free air thermal current Ith		Α	32
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)	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)		A	200
Protection fuse			
	gG (IEC)	Α	32
	aM (IEC)	Α	20
Making capacity (RMS value)		A	180
Breaking capacity at voltage			
	440V	Α	144
	500V	Α	120
	690V	A	94
Resistance per pole (average value)		mΩ	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
Tightoning to you of our call to you in -1	max	lbin	1.5
Tightening torque for coil terminal	. •	N.L.	0.0
	min	Nm Nm	0.8
	max	Nm Ibin	1
	min	lbin Ibin	0.8
Max number of wires simultaneously connectable	max	lbin Nr	2
Max number of wires simultaneously connectable		Nr.	۷



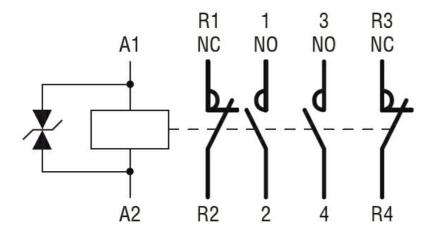
Conductor section			
	AWG/Kcmil		
	Flovible w/e lug conductor section		10
	Flexible w/o lug conductor section min	mm²	1
	max	mm²	6
	Flexible c/w lug conductor section		
	min	mm²	1
	max	mm²	4
	Flexible with insulated spade lug conductor section	2	4
	min max	mm² mm²	1 4
		111111	IP20 when
Power terminal protec	ction according to IEC/EN 60529		properly wired
Mechanical features			
Operating position			
	normal		Vertical plan
	allowable		±30°
Fixing			Screw / DIN rail 35mm
Veight		g	500
Operations			
Mechanical life		cycles	20000000
Electrical life		cycles	1600000
Safety related data	0.1		
Performance level B1	0d according to EN/ISO 13489-1		4000000
	rated load mechanical load	cycles cycles	1600000 20000000
EMC compatibility	The chanical load	cycles	yes
AC coil operating			yes
AC operating voltage			
1 0 0	of 50/60Hz coil powered at 50Hz		
	drop-out		
	max	%Us	55
OC coil operating			
OC rated control volta	ge	V	48
OC operating voltage	manala a an		
	pick-up		
		0/1 lc	80
	min	%Us %Us	80 110
	min max	%Us %Us	80 110
	min		
	min max drop-out min max	%Us	110
Average coil consump	min max drop-out min max	%Us %Us	110
Average coil consump	min max drop-out min max otion ≤20°C in-rush	%Us %Us %Us W	110 10 40 2.4
	min max drop-out min max otion ≤20°C in-rush holding	%Us %Us %Us	110 10 40
Max cycles frequency	min max drop-out min max otion ≤20°C in-rush holding	%Us %Us %Us W W	110 10 40 2.4 2.4
Max cycles frequency Mechanical operation	min max drop-out min max otion ≤20°C in-rush holding	%Us %Us %Us W	110 10 40 2.4 2.4
Max cycles frequency Mechanical operation Operating times	min max drop-out min max otion ≤20°C in-rush holding	%Us %Us %Us W W	110 10 40 2.4 2.4
Max cycles frequency Mechanical operation Operating times	min max drop-out min max otion ≤20°C in-rush holding	%Us %Us %Us W W	110 10 40 2.4 2.4
Max cycles frequency Mechanical operation Operating times	min max drop-out min max otion ≤20°C in-rush holding control in AC	%Us %Us %Us W W	110 10 40 2.4 2.4
Average coil consump Max cycles frequency Mechanical operation Operating times Average time for Us c	min max drop-out min max otion ≤20°C in-rush holding	%Us %Us %Us W W	110 10 40 2.4 2.4



		Opening NO			
		Opening NO	min	ms	10
			max	ms	20
		Closing NC	IIIdA	1113	20
		Closing NC	min	ms	14
			max	ms	28
		Opening NC	max	1113	20
		Opening 140	min	ms	7
			max	ms	18
	in DC		Пах	1110	10
	50	Closing NO			
		0.00m.g 0	min	ms	75
			max	ms	91
		Opening NO			•
		opolinig i to	min	ms	15
			max	ms	19
		Closing NC			-
		3 -	min	ms	24
			max	ms	30
		Opening NC			
		3 -	min	ms	67
			max	ms	81
UL technical data					
Rated operational volta	age AC (UL)			V	600
	for three-phase AC mo	otor			
,	·		at 480V	Α	14
			at 600V	Α	17
Yielded mechanical pe	erformance				
•	for single-phase AC n	notor			
	0 1		110/120V	HP	1
			230V	HP	3
	for three-phase AC m	otor			
	•		200/208V	HP	5
			220/230V	HP	5
			460/480V	HP	10
			575/600V	HP	15
General USE					
	Contactor				
			AC current	Α	32
Ambient conditions					
Temperature					
	Operating temperature	е			
			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					



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