





Product designation			Power contactor
Product type designation Contact characteristics			BF18
Number of poles		Nr.	3
Rated insulation voltage Ui IEC/EN		V	690
Rated impulse withstand voltage Uimp		kV	6
Operational frequency		K V	
Operational frequency	min	Hz	25
	max	Hz	400
IEC Conventional free air thermal current Ith	max	A	32
Operational current le			
oporational carroni lo	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-3 (T≤55°C)	,		
	230V	kW	4
	400V	kW	7.5
	415V	kW	9
	440V	kW	9
	500V	kW	10
	690V	kW	10
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	A	
IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series			
	≤24V	Α	20
	48V	A	20
	75V	A	20
	110V	A	13
IFC many augment is in DC4 with I/D < 4 man with 2 males in agriculture	220V	Α	1
IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series	-0.11.1	^	22
	≤24V	A	22
	48V 75V	A	22
	75V 110V	A A	20 16
	1100	А	10





	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	A	_
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series	220 V		
The max current to in 500-500 with E/N = 10m3 with 2 poles in series	≤24V	Α	15
	48V	A	
	48 V 75 V		13
		A	13
	110V	A	8
150	220V	A	2
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series	-0.01		4.0
	≤24V	A	18
	48V	Α	18
	75V	Α	16
	110V	Α	12
	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	A	120
	690V	A	94
Resistance per note (average value)	090 v	mΩ	2.5
Resistance per pole (average value)		11177	۷.ن
Power dissipation per pole (average value)	141	107	2.0
	Ith	W	2.6
Title de la constant	AC-3	W	0.8
Tightening torque for terminals			4.5
	min	Nm	1.5
	max	Nm	1.8
	min	Ibin	1.1
	max	Ibin	1.5
Tightening torque for coil terminal			
	min	Nm	0.8
	max	Nm	1
	min	Ibin	0.8





May princh an af i	iroo oimultanooyaly aasaastabla	max	Ibin	0.74
	res simultaneously connectable		Nr.	2
Conductor section	n AWG/Kcmil			
	AWG/RCIIII	max		10
	Flexible w/o lug conductor section	IIIdA		10
	Tickible w/o lag corladetor section	min	mm²	1
		max	mm²	6
	Flexible c/w lug conductor section	THOX:		
	o o,ag oonadote. ooo	min	mm²	1
		max	mm²	4
	Flexible with insulated spade lug conductor se	ection		
	·	min	mm²	1
		max	mm²	4
Power terminal pr	rotection according to IEC/EN 60529			IP20 when
•				properly wired
Mechanical featur				
Operating position	า			
		normal		Vertical plan
		allowable		±30°
Fixing				Screw / DIN rail
				35mm
Weight	share et existing		g	500
Auxiliary contact on the contact of			Λ	10
			Α	A600 - P600
EC/EN 60947-5- Operating current				A000 - P000
Operating current	ACTS	230V	Α	3
		400V	A	1.9
		500V	A	1.4
Operating current	DC12			1.7
oporating carroint	56.2	110V	Α	5.7
Operating current	DC13	1101		
oporating ourrors	20.0	24V	Α	5.7
		48V	Α	2.9
		60V	Α	2.3
		110V	Α	1.25
		125V	Α	1.1
		220V	Α	0.55
		600V	Α	0.2
Operations				
Mechanical life			cycles	20000000
Electrical life			cycles	1600000
Safety related dat				
Performance leve	el B10d according to EN/ISO 13489-1			
		rated load	cycles	1600000
		mechanical load	cycles	20000000
EMC compatibility				yes
DC coil operating				
DC rated control v			V	24
DC operating volta	_			
	pick-up	_	0.11	80
		min	%Us	11/1



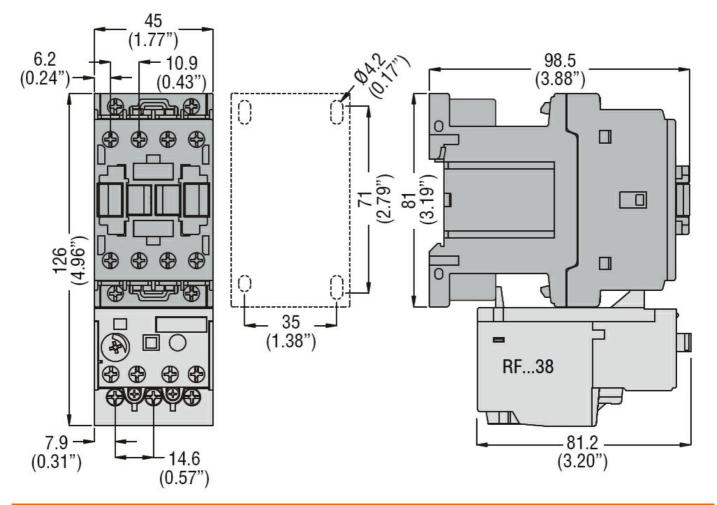


			***	0/116	440
	drap out		max	%Us	110
	drop-out		min	%Us	10
			max	%Us	40
Average coil consumpt	tion <20°C		IIIdx	/003	40
Average con consumpt	11011 = 20 0		in-rush	W	2.4
			holding	W	2.4
Max cycles frequency			Holding	**	2. ¬
Mechanical operation				cycles/h	3600
Operating times				<i>cy c.c.</i>	
Average time for Us co	ntrol				
g	in AC				
		Closing NO			
		G	min	ms	8
			max	ms	24
		Opening NO			
			min	ms	10
			max	ms	20
		Closing NC			
			min	ms	14
			max	ms	28
		Opening NC			
			min	ms	7
			max	ms	18
	in DC				
		Closing NO			
			min	ms	75
		O a sais a NO	max	ms	91
		Opening NO			4.5
			min	ms	15
UL technical data			max	ms	19
Rated operational volta	ago AC (LIL)			V	600
Full-load current (FLA)	, ,	\C motor		V	000
i dii-load culterii (i LA)	ioi tillee-pilase F	AC IIIOIOI	at 480V	Α	14
			at 600V	A	17
Yielded mechanical pe	rformance		at 000 V	/ \	• •
. Totada moonamoai pe	for single-phase	e AC motor			
	.o. o.i.gio pilase		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 contact	ts			
			AC voltage	V	600
			AC current	Α	10
			DC voltage	V	250
-			DC current	Α	1
Short-circuit protection	fuse, 600V				



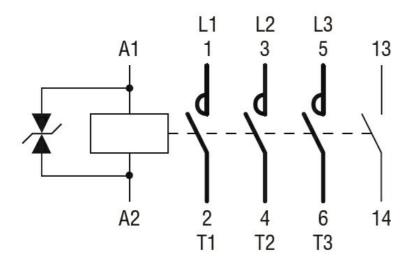


Hi	gh fault			
		Short circuit current	kA	100
		Fuse rating	Α	60
		Fuse class		J
St	andard fault			
		Short circuit current	kA	5
		Fuse rating	Α	80
Contact rating of auxiliary of	contacts according to UL			A600 - P600
Ambient conditions				
Temperature				
Op	perating temperature			
		min	°C	-50
		max	°C	70
St	orage temperature			
		min	°C	-60
		max	°C	80
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

ETIM 8.0

EC000066 -Power contactor, AC switching