





Product designation			Power contactor
Product type designation			BF18
Contact characteristics			
Number of poles		Nr.	3
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-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	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
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			
	≤24V	Α	18
	48V	Α	18
	75V	Α	16
	110V	A	12
	220V	A	6
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series	220 V	/ \	<u> </u>
1.25 max sarront to in 2.55 2.50 with ETC = 10115 with 4 polos in series	≤24V	Α	18
	48V	A	18
	75V	A	16
	110V	A	13
	220V	A	8
Short-time allowable current for 10s (IEC/EN60947-1)	220 V	A	200
Protection fuse		П	200
	gG (IEC)	Α	32
	aM (IEC)	A	20
Making capacity (RMS value)	aivi (IEC)	A	180
Breaking capacity at voltage		А	100
breaking capacity at voltage	440\/	۸	144
	440V 500V	A A	144
	690V		120
Posistance per pole (average value)	0907	A mO	94
Resistance per pole (average value)		mΩ	2.5
Power dissipation per pole (average value)	حلدا	14/	2.6
	Ith	W	2.6
Tightoning torque for torminals	AC-3	W	0.8
Tightening torque for terminals	!	N I.a.	1 5
	min	Nm	1.5
	max	Nm	1.8
	min	Ibin	1.1
This is a few and few	max	Ibin	1.5
Tightening torque for coil terminal			0.0
	min	Nm	0.8
	max	Nm	1
	min	Ibin	0.8



NA	and the literature of the same	max	Ibin	0.74
	s simultaneously connectable		Nr.	2
Conductor section	AWG/Kcmil			
	AWG/Remii	max		10
	Flexible w/o lug conductor section	IIIAX		10
	r ionibio w/o lag conductor cocaen	min	mm²	1
		max	mm²	6
	Flexible c/w lug conductor section			
	· ·	min	mm²	1
		max	mm²	4
	Flexible with insulated spade lug conductor	or section		
		min	mm²	1
		max	mm²	4
Power terminal prote	ection according to IEC/EN 60529			IP20 when
<u> </u>	<u> </u>			properly wired
Mechanical features				
Operating position				\/ortical als:-
		normal allowable		Vertical plan ±30°
		allowable		Screw / DIN rail
Fixing				35mm
Weight			g	500
Auxiliary contact cha	aracteristics		9	
Thermal current Ith			А	10
IEC/EN 60947-5-1 c	designation			A600 - P600
Operating current A				
		230V	Α	3
		400V	Α	1.9
		500V	Α	1.4
Operating current D	C12			
		110V	Α	5.7
Operating current D	C13			
		24V	Α	5.7
		48V	Α	2.9
		60V	Α	2.3
		110V	A	1.25
		125V	A	1.1
		220V 600V	A A	0.55 0.2
Operations		0007	A	U.Z
Mechanical life			cycles	20000000
Electrical life			cycles	1600000
Safety related data			5,0.00	
	310d according to EN/ISO 13489-1			
		rated load	cycles	1600000
		mechanical load	cycles	20000000
EMC compatibility			-	yes
AC coil operating				
AC operating voltag	e			
	of 50/60Hz coil powered at 50Hz			
	drop-out			
		max	%Us	55
DC coil operating				

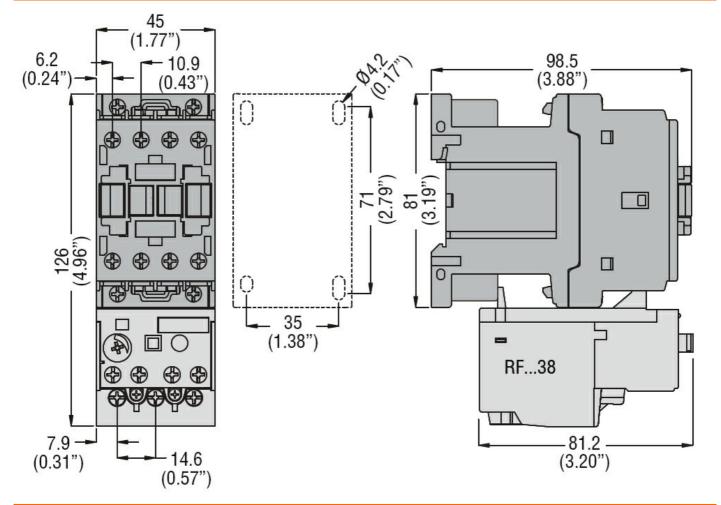




DO					40
DC rated control voltage	je			V	48
DC operating voltage	niek un				
	pick-up		min	0/116	80
			min	%Us	
	drop out		max	%Us	110
	drop-out		min	%Us	10
				%Us	40
Average coil consump	tion <20°C		max	/005	40
Average con consump	11011 320 C		in-rush	W	2.4
			holding	W	2.4
Max cycles frequency			Holding	VV	2.4
Mechanical operation				cycles/h	3600
Operating times				cycles/11	3000
Average time for Us co	ontrol				
Average lime for US Co	in AC				
	III AC	Closing NO			
		Closing NO	min	ms	8
			max	ms	24
		Opening NO	IIIdA	1113	24
		Opening NO	min	ms	10
			max	ms	20
		Closing NC	IIIdx	1113	20
		Olosing 140	min	ms	14
			max	ms	28
		Opening NC	max	1110	20
		Opening NO	min	ms	7
			max	ms	18
	in DC		THO.		
	50	Closing NO			
		Clooming 110	min	ms	75
			max	ms	91
		Opening NO			
		5 -	min	ms	15
			max	ms	19
UL technical data					
Rated operational volta	age AC (UL)			V	600
	for three-phase AC moto	or			
,	•		at 480V	Α	14
			at 600V	Α	17
Yielded mechanical pe	rformance				
,	for single-phase AC mo	otor			
	U 1		110/120V	HP	1
			230V	HP	3
	for three-phase AC mot	tor			
	•		200/208V	HP	5
			220/230V	HP	5
			460/480V	HP	10
			575/600V	HP	15
General USE					
	Contactor				
			AC current	Α	32
	Auxiliary contacts				
	•		AC voltage	V	600

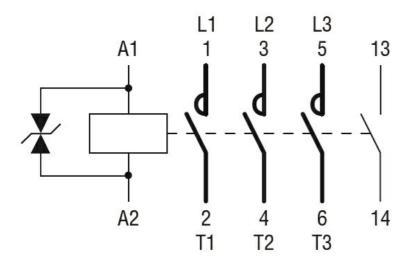


	AC current	Α	10
	DC voltage	V	250
	DC current	Α	1
Short-circuit protection fuse, 600V			
High fault			
•	Short circuit current	kA	100
	Fuse rating	Α	60
	Fuse class		J
Standard fault			
	Short circuit current	kA	5
	Fuse rating	Α	80
Contact rating of auxiliary contacts according to UL			A600 - P600
Ambient conditions			
Temperature			
Operating temperature			
	min	°C	-50
	max	°C	70
Storage 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