





Product designation Power contactor Product type designation **BF18** Contact characteristics Nr. 3 Number of poles Rated insulation voltage Ui IEC/EN ٧ 690 k۷ Rated impulse withstand voltage Uimp 6 Operational frequency Нъ 25 min Hz 400 max IEC Conventional free air thermal current Ith 32 Α 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) 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 20 Α 110V Α 13 220V Α 1 IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series ≤24V 22 Α 22 48V Α 75V Α 20 110V 16





	220V	Α	11	
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series	220 V	,,		
· ·	≤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	Α	12	
150 DOS DOS 111 L/D 145 111 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	220V	Α	6	
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series	.0.43.4			
	≤24V	A	18	
	48V	A	18	
	75V	A	16	
	110V	A	13	
Chart time allowable augrent for 10a (IEC/ENG0047.1)	220V	A 	200	
Short-time allowable current for 10s (IEC/EN60947-1)		A	200	
Protection fuse	۵۵ (۱۲۵)	۸	20	
	gG (IEC) aM (IEC)	A	32 20	
Making capacity (RMS value)	aivi (IEC)	A A	180	
Breaking capacity (Kivis Value)			100	
breaking capacity at voltage	440V	Α	144	
	500V	A	120	
	690V	A	94	
Resistance per pole (average value)	030 v	mΩ	2.5	
Power dissipation per pole (average value)		11122	2.0	
1 owor alsolpation por pole (average value)	Ith	W	2.6	
	AC-3	W	0.8	
Tightening torque for terminals	7.0-3	V V	0.0	
rightering torque for terminals	min	Nm	1.5	
	max	Nm	1.8	
	min	lbin	1.1	
	max	lbin	1.5	
Tightening torque for coil terminal	шал			
	min	Nm	0.8	
	max	Nm	1	
	min	lbin	0.8	
	•••••			





		max	Ibin	0.74
	simultaneously connectable		Nr.	2
Conductor section	AM/C/// amil			
	AWG/Kcmil	max		10
	Flexible w/o lug conductor section	IIIax		10
	r lexible w/o lug conductor section	min	mm²	1
		max	mm²	6
	Flexible c/w lug conductor section			
	ŭ	min	mm²	1
		max	mm²	4
	Flexible with insulated spade lug conductor section			
		min	mm²	1
		max	mm²	4
Power terminal prote	ction according to IEC/EN 60529			IP20 when
	5.10.11 d3551 d3.11 g 10 1.11 g			properly wired
Mechanical features				
Operating position		n a mas e l		\/ortical =la=
		normal allowable		Vertical plan ±30°
		allowable		Screw / DIN rail
Fixing				35mm
Weight			g	352
Conductor section				
	AWG/kcmil conductor section			
		max		10
Auxiliary contact char	acteristics			
Thermal current Ith			Α	10
IEC/EN 60947-5-1 de	ocianation			A600 - P600
1LC/LIN 00347-3-1 ut	esignation			A000 - F000
	-			A000 - F000
	-	230V	A	3
	-	400V	Α	3 1.9
Operating current AC	15			3
Operating current AC	15	400V 500V	A A	3 1.9 1.4
Operating current AC Operating current DC	15	400V	Α	3 1.9
Operating current AC Operating current DC	15	400V 500V 110V	A A	3 1.9 1.4 5.7
Operating current AC Operating current DC	15	400V 500V 110V 24V	A A A	3 1.9 1.4 5.7
Operating current AC Operating current DC	15	400V 500V 110V 24V 48V	A A A	3 1.9 1.4 5.7 5.7 2.9
Operating current AC Operating current DC	15	400V 500V 110V 24V 48V 60V	A A A A	3 1.9 1.4 5.7 5.7 2.9 2.3
Operating current AC Operating current DC	15	400V 500V 110V 24V 48V 60V 110V	A A A A A	3 1.9 1.4 5.7 5.7 2.9 2.3 1.25
Operating current AC Operating current DC	15	400V 500V 110V 24V 48V 60V 110V 125V	A A A A A A	3 1.9 1.4 5.7 5.7 2.9 2.3 1.25 1.1
Operating current AC Operating current DC	15	400V 500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A	3 1.9 1.4 5.7 5.7 2.9 2.3 1.25 1.1 0.55
Operating current AC Operating current DC Operating current DC	15	400V 500V 110V 24V 48V 60V 110V 125V	A A A A A A	3 1.9 1.4 5.7 5.7 2.9 2.3 1.25 1.1
Operating current AC Operating current DC Operating current DC Operating current DC	15	400V 500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A	3 1.9 1.4 5.7 5.7 2.9 2.3 1.25 1.1 0.55 0.2
Operating current AC Operating current DC Operating current DC Operating current DC Operations Mechanical life	15	400V 500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A A Cycles	3 1.9 1.4 5.7 5.7 2.9 2.3 1.25 1.1 0.55 0.2
Operating current AC Operating current DC Operating current DC Operations Mechanical life Electrical life	15	400V 500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A	3 1.9 1.4 5.7 5.7 2.9 2.3 1.25 1.1 0.55 0.2
Operating current AC Operating current DC Operating current DC Operations Mechanical life Electrical life Safety related data	212	400V 500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A A Cycles	3 1.9 1.4 5.7 5.7 2.9 2.3 1.25 1.1 0.55 0.2
Operating current AC Operating current DC Operating current DC Operations Mechanical life Electrical life Safety related data	15	400V 500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A Cycles cycles	3 1.9 1.4 5.7 5.7 2.9 2.3 1.25 1.1 0.55 0.2
Operating current AC Operating current DC Operating current DC Operations Mechanical life Electrical life Safety related data	10d according to EN/ISO 13489-1	400V 500V 110V 24V 48V 60V 110V 125V 220V 600V	A A A A A A A A Cycles	3 1.9 1.4 5.7 5.7 2.9 2.3 1.25 1.1 0.55 0.2 20000000
Operating current AC Operating current DC Operating current DC Operating current DC Operations Mechanical life Electrical life Safety related data Performance level B1	115 112 113 10d according to EN/ISO 13489-1	400V 500V 110V 24V 48V 60V 110V 125V 220V 600V	A A A A A A A Cycles cycles	3 1.9 1.4 5.7 5.7 2.9 2.3 1.25 1.1 0.55 0.2 20000000 1600000 1600000 200000000
Operating current AC Operating current DC Operating current DC Operating current DC Operations Mechanical life Electrical life Safety related data Performance level B1	10d according to EN/ISO 13489-1	400V 500V 110V 24V 48V 60V 110V 125V 220V 600V	A A A A A A A Cycles cycles	3 1.9 1.4 5.7 5.7 2.9 2.3 1.25 1.1 0.55 0.2 20000000 1600000



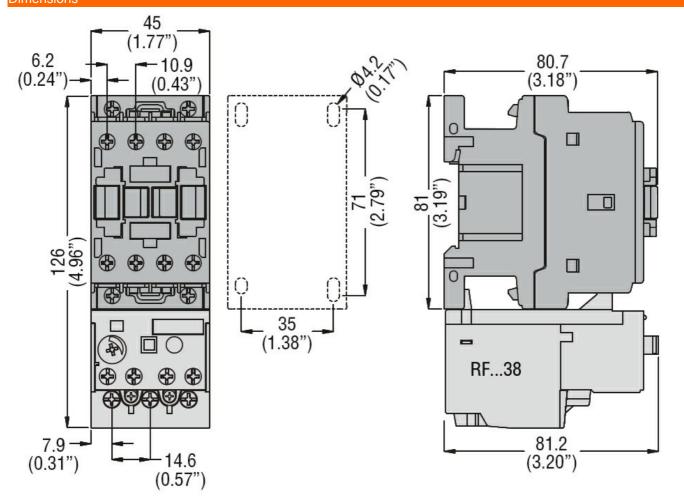


Rated AC voltage at 6	60Hz			V	460
AC operating voltage					
	of 60Hz coil powered a				
		pick-up			
			min	%Us	80
			max	%Us	110
		drop-out		0/11	
			min	%Us	20
10			max	%Us	55
AC average coil cons	•	+ COL I-			
	of 60Hz coil powered a	t 6UHZ	io ruoh	١/٨	75
			in-rush	VA VA	75
Discipation at halding	<00°C FOLI-		holding	VA W	9
Dissipation at holding				VV	2.5
Max cycles frequency				ovoloo/b	2600
Mechanical operation				cycles/h	3600
Operating times Average time for Us of	control				
Average unite 101 US 0	in AC				
	III AC	Closing NO			
		CIUSING INC	min	ms	8
			max	ms	24
		Opening NO	max	1113	24
		Opening 140	min	ms	10
			max	ms	20
		Closing NC	max		
		5.55g	min	ms	14
			max	ms	28
		Opening NC			
			min	ms	7
			max	ms	18
UL technical data					
Full-load current (FLA	for three-phase AC moto	or			
			at 480V	Α	14
			at 600V	Α	17
Yielded mechanical p					
	for single-phase AC mo	otor			
			110/120V	HP	1
			230V	HP	3
	for three-phase AC mo	tor	000/000		_
			200/208V	HP	5
			220/230V	HP	5
			460/480V	HP	10
Conoral LICE			575/600V	HP	15
General USE	Contactor				
	Contactor		AC 011770-01	٨	22
	Auxilian/ contacts		AC current	A	32
	Auxiliary contacts		AC voltage	\/	600
			AC voltage AC current	V A	10
			DC voltage	A V	250
			DC voltage DC current	V A	1
Short-circuit protectio	n fuse 600V		DO Guilelli	А	•
Chort official protection	High fault				
	i ligit tault				





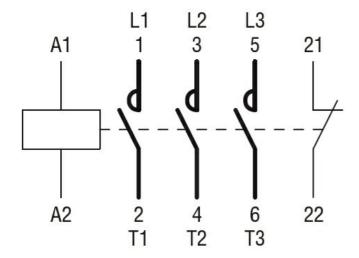
		Short circuit current	kA	100
		Fuse rating	Α	60
		Fuse class		J
Standard fa	ault			
		Short circuit current	kA	5
		Fuse rating	Α	80
Contact rating of auxiliary contacts a	according to UL			A600 - P600
Ambient conditions				
Temperature				
Operating t	emperature			
		min	°C	-50
		max	°C	70
Storage ter	nperature			
		min	°C	-60
		max	°C	80
Max altitude			m	3000
Resistance & Protection				
Pollution degree				3
Dimensions				



Wiring diagrams

ENERGY AND AUTOMATION

THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 18A, AC COIL 60HZ, 460VAC, 1NC AUXILIARY CONTACT



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