





Product designation			Power contactor
Product type designation			BF18
Contact characteristics			20
Number of poles		Nr.	3
Rated insulation voltage Ui IEC/EN		V	690
Rated impulse withstand voltage Uimp		kV	6
Operational frequency			
operational modules,	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)	A	8.5
Rated operational power AC-3 (T≤55°C)	ΑΟ + (+001)		0.0
Nated operational power AO-5 (1=55 O)	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)	030 V	KVV	
Nated operational power AC-1 (1340 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	090 V	KVV	
in series	≤24V	۸	17
	≤24V 48V	A	
	46 V 75 V	A A	15
			15
	110V	A	6
IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series	220V	Α	<u>-</u>
TEC max current le in DCT with L/R \(\) This with 2 poles in series	2041 /	۸	0.0
	≤24V	A	20
	48V	A	20
	75V	A	20
	110V	A	13
150	220V	Α	1
IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series	-0.01		00
	≤24V	A	22
	48V	A	22
	75V	A	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	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
Till to die to en a forte estado	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





		max	Ibin	0.74
	simultaneously connectable		Nr.	2
Conductor section	A1A/O///:1			
	AWG/Kcmil	may		10
	Flexible w/o lug conductor section	max		10
	Flexible w/o lag colladetol section	min	mm²	1
		max	mm²	6
	Flexible c/w lug conductor section	max		
	Tionible of thing boildable booties.	min	mm²	1
		max	mm²	4
	Flexible with insulated spade lug conductor section			
	, ,	min	mm²	1
		max	mm²	4
Power terminal protect	ction according to IEC/EN 60529			IP20 when
·	sterr decording to 12-6/214 00020			properly wired
Mechanical features				
Operating position				Manthalla
		normal		Vertical plan
		allowable		±30°
Fixing				Screw / DIN rail 35mm
Weight			g	354
Conductor section				
	AWG/kcmil conductor section			
		max		10
Auxiliary contact chara	acteristics			
Thermal current Ith			Α	10
IEC/EN 60947-5-1 de				A600 - P600
Operating current AC	15			
		230V	Α	3
		400V	Α	1.9
0 " 100	10	500V	Α	1.4
Operating current DC	12	440)/		
0	40	110V	Α	5.7
Operating current DC	13	24)/	۸	r 7
		24V 48V	A	5.7
		46 V 60 V	A A	2.9 2.3
		110V	A	2.3 1.25
		110V 125V	A	1.1
		220V	A	0.55
		600V	A	0.2
Operations				
•			cycles	20000000
Mechanicai life			cycles	1600000
			0,0100	
Electrical life			cycloc	
Electrical life Safety related data	0d according to EN/ISO 13489-1		dydidd	
Electrical life Safety related data	0d according to EN/ISO 13489-1	rated load	cycles	1600000
Electrical life Safety related data	-	rated load echanical load		1600000 20000000
Electrical life Safety related data Performance level B1 Mirror contats accord	-		cycles	
	m		cycles	20000000



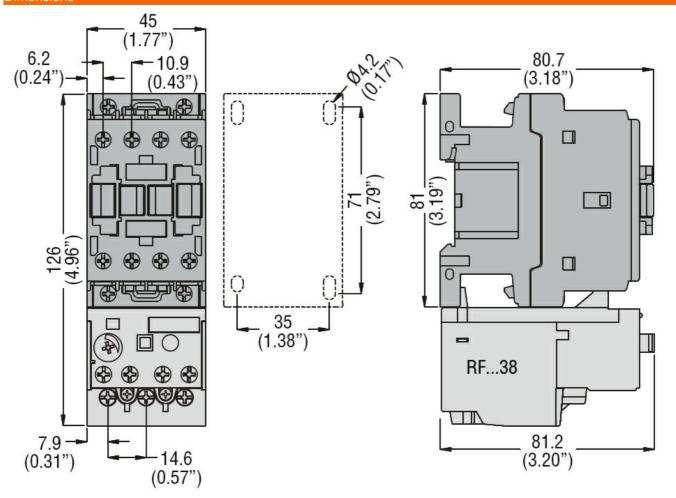


Rated AC voltage at 60l	Hz			V	230
AC operating voltage					
	of 60Hz coil powered at				
		pick-up			
			min	%Us	80
			max	%Us	110
		drop-out		0/11	
			min	%Us	20
A C			max	%Us	55
AC average coil consun		+ COL I-			
	of 60Hz coil powered at	t 60HZ	مام رس من	١/٨	7.5
			in-rush	VA VA	75 9
Dissipation at halding /	00°C E0∐-		holding	W	
Dissipation at holding ≤	20 C 50HZ			VV	2.5
Max cycles frequency				avalaa/b	2600
Mechanical operation Operating times				cycles/h	3000
Average time for Us cor	otrol				
<u> </u>	in AC				
	III AC	Closing NO			
		Clushing INO	min	ms	8
			max	ms	24
		Opening NO	max	1113	24
		Opening 140	min	ms	10
			max	ms	20
		Closing NC	max	1110	20
		5.55g 5	min	ms	14
			max	ms	28
		Opening NC			
			min	ms	7
			max	ms	18
UL technical data					
Full-load current (FLA) f	or three-phase AC moto	or			
			at 480V	Α	14
			at 600V	Α	17
Yielded mechanical per					
	for single-phase AC mo	otor			
			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
Conoral LICE			575/600V	HP	15
General USE	Cantanta				
	Contactor		AO	Λ	20
	Auviliany contacts		AC current	Α	32
	Auxiliary contacts		A C	17	600
			AC current	V	600
			AC current	A	10
			DC voltage DC current	V	250
Short-circuit protection	fueo 600\/		DC current	A	1
Short-circuit protection f					
	High fault				



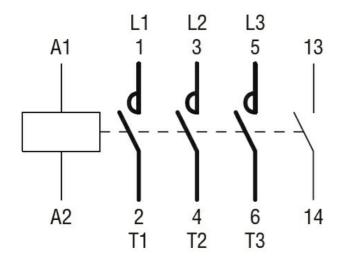


	Short circuit current	kA	100
	Fuse rating	Α	60
	Fuse class		J
Standard fault			
	Short circuit current	kA	5
	Fuse rating	Α	80
Contact rating of auxiliary contacts according to UL			A600 - P600
Ambient conditions			
Temperature			
Operating temperature			
	min	°C	-50
	max	°C	70
Storage temperature			
	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