





Product designation Power contactor Product type designation **BF18** Contact characteristics 3 Number of poles nr. Rated insulation voltage Ui IEC/EN ٧ 690 k۷ Rated impulse withstand voltage Uimp 6 Operational frequency min Ηъ 25 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			
	≤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			
The max danient is in Boo Boo man Erre Tome man 2 person in control	≤24V	Α	15
	48V	A	13
	75V	A	13
	110V	A	8
	220V	A	2
IEC may current to in DC2 DC5 with L/D < 15mg with 2 notes in corion	220 V	A	۷
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series	20AV	٨	40
	≤24V	A	18
	48V	A	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			
<u> </u>	440V	Α	144
	500V	Α	120
	690V	Α	94
Resistance per pole (average value)	300.	mΩ	2.5
Power dissipation per pole (average value)		.1134	
1 ones allocipation per pero (average value)	Ith	W	2.6
	AC3	W	0.8
Tightening torque for terminals	703	v v	0.0
rightening torque for terminals	min	Nim	1 5
	min	Nm Nm	1.5
	max	Nm	1.8
	min	lbin	1.1
This control of the control of	max	lbin	1.5
Tightening torque for coil terminal			
	min	Nm	0.8
	max	Nm	1
	min	lbft	0.8



		max	lbft	0.74
	simultaneously connectable		nr.	2
Conductor section				
	Flexible w/o lug conductor section		•	
		min	mm²	1
	=	max	mm²	6
	Flexible c/w lug conductor section		2	4
		min	mm²	1
	Clavible with insulated and deliver and water and	max	mm²	4
	Flexible with insulated spade lug conductor sec		mm²	4
		min	mm² mm²	1 4
Dower terminal protect	etion according to IEC/EN 60529	max	111111	IP20 when wired
Mechanical features	ction according to IEC/EN 80329			IP20 When whed
Operating position				
Operating position		normal		Vertical plan
		allowable		±30°
		allowable		Screw / DIN rail
Fixing				35mm
Weight			g	348
Auxiliary contact chara	acteristics		J	
Type of contact				1 NC
Thermal current Ith			Α	10
IEC/EN 60947-5-1 de	signation			A600 - P600
Operating current AC				
, ,		230V	Α	3
		400V	Α	1.9
		500V	Α	1.4
Operating current DC	12			
-		110V	Α	5.7
Operating current DC	13			
		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 data				
Performance level B1	0d according to EN/ISO 13489-1		_	
		rated load	cycles	1600000
	150/5N 000/51 1 1	mechanical load	cycles	20000000
	ng to IEC/EN 609474-4-1			yes
EMC compatibility				yes
Rated AC voltage at 6	outz		V	220
AC coil operating				
AC operating voltage	(001)			
	of 60Hz coil powered at 60Hz			
	pick-up	•	0/11	0.0

min

%Us

80



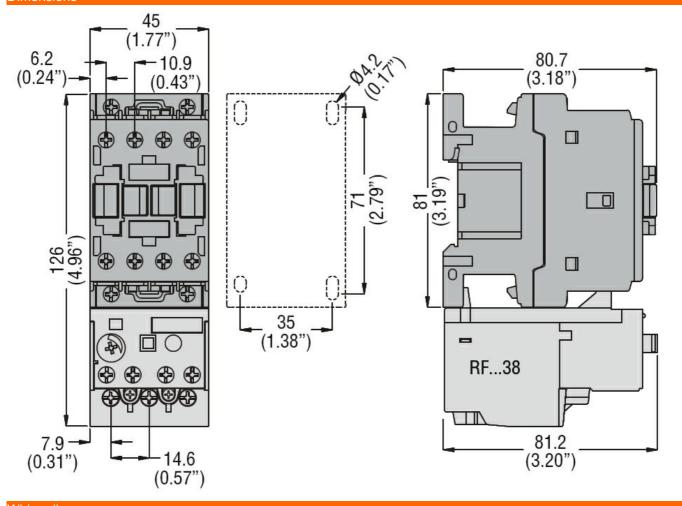


		max	%Us	110
	drop-out			
	'	min	%Us	20
		max	%Us	55
AC average coil cor	sumption at 20°C			
7 to avoluge con col	of 50/60Hz coil powered at 50Hz			
	or 50/00112 con powered at 50112	in-rush	VA	75
		holding	VA	9
	of 50/60Hz coil powered at 60Hz	Holding	٧٨	<u> </u>
	of 30/00112 coil powered at our iz	in-rush	VA	70
			VA	6.5
	of COLLE and provinced at COLLE	holding	VA	0.0
	of 60Hz coil powered at 60Hz	2	١./٨	7.5
		in-rush	VA	75
		holding	VA	9
Dissipation at holding			W	2.5
Max cycles frequence	-			
Mechanical operation	n		cycles/h	3600
Operating times				
Average time for Us	control			
	in AC			
	Closing NO			
		min	ms	8
		max	ms	24
	Opening NO			
		min	ms	10
		max	ms	20
	Closing NC			
	ŭ	min	ms	14
		max	ms	28
	Opening NC			
	, ,	min	ms	7
		max	ms	18
UL technical data				
	.A) for three-phase AC motor			
	,	at 480V	Α	14
		at 600V	A	17
Yielded mechanical	performance	41 000 V	,,	• •
ricidod modiamical	for single-phase AC motor			
	ioi sirigie-priase AO Motor			1
		110/120\/	HΡ	i
		110/120V	HP HD	
	for three phase AC mater	110/120V 230V	HP HP	3
	for three-phase AC motor	230V	HP	3
	for three-phase AC motor	230V 200/208V	HP HP	5
	for three-phase AC motor	230V 200/208V 220/230V	HP HP HP	5 5
	for three-phase AC motor	230V 200/208V 220/230V 460/480V	HP HP HP	5 5 10
	for three-phase AC motor	230V 200/208V 220/230V	HP HP HP	5 5
General USE		230V 200/208V 220/230V 460/480V	HP HP HP	5 5 10
General USE	for three-phase AC motor Contactor	230V 200/208V 220/230V 460/480V 575/600V	HP HP HP HP	5 5 10 15
General USE	Contactor	230V 200/208V 220/230V 460/480V	HP HP HP	5 5 10
General USE		230V 200/208V 220/230V 460/480V 575/600V	HP HP HP HP	5 5 10 15
General USE	Contactor	230V 200/208V 220/230V 460/480V 575/600V AC current	HP HP HP HP	3 5 5 10 15 32 600
General USE	Contactor	230V 200/208V 220/230V 460/480V 575/600V AC current	HP HP HP HP	3 5 5 10 15
General USE	Contactor	230V 200/208V 220/230V 460/480V 575/600V AC current	HP HP HP HP	3 5 5 10 15 32 600
General USE	Contactor	230V 200/208V 220/230V 460/480V 575/600V AC current AC voltage AC current	HP HP HP HP	3 5 5 10 15 32 600 10





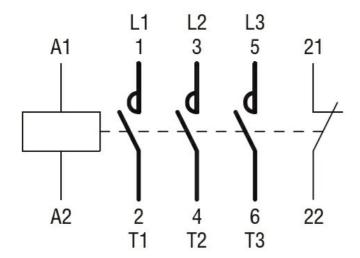
High fault			
•	Short circuit current	kA	100
	Fuse rating	Α	60
	Fuse class		J
Standard fault			
	Short circuit current	kA	5
	Fuse rating	Α	80
Contact rating of auxiliary contacts according to UL			A600 - P600
Ambient conditions			
Temperature			
Operating temperature			
	min	°C	-50
	max	°C	70
Storage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



Wiring diagrams

ENERGY AND AUTOMATION

THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 18A, AC COIL 60HZ, 220VAC, 1NC AUXILIARY CONTACT



Certifications and compliance

Compliance

CSA C22.2 n° 60947-1

CSA C22.2 n° 60947-4-1

IEC/EN 60947-1

IEC/EN 60947-4-1

UL 60947-1

UL 60947-4-1

Certificates

CCC

cULus

EAC

ETIM classification

ETIM 8.0

EC000066 -Power contactor, AC switching