



Product designation			Power contactor
Product type designation			BF18
Contact characteristics			
Number of poles		nr.	3
Rated insulation voltage Ui		V	690
Rated impulse withstand voltage Uimp		kV	6
Operating frequency			
	Operational frequency min	Hz	25
	Operational frequency max	Hz	400
Conventional free air thermal current Ith		A	32
Operating current			
	Operational current AC1 (≤40°C)	Α	32
	Operational current AC3 (≤440V ≤55°C)	Α	18
	Operational current AC4 (400V)	Α	8.5
Rated operational power AC1 (T≤40°C)			
	230V	kW	12
	400V	kW	21
	500V	kW	26
	690V	kW	36
Rated operational power AC3 (T≤55°C)			
	230V	kW	4
	400V	kW	7.5
	415V	kW	9
	440V	kW	9
	500V	kW	10
Ol and Care all and Law are all Care Alex (150/5N/	690V	kW	10
Short-time allowable current for 10s (IEC/EN6	00947-1)	Α	200
Protection fuse		۸	00
	gG (IEC)	A	32
Making conscity (DMC value)	aM (IEC)	<u>А</u> А	180
Making capacity (RMS value)		A	100
Breaking capacity at voltage	Drooking consoits 4401/	۸	1.4.4
	Breaking capacity 440V	A	144 120
	Breaking capacity 500V	A	
Resistance per pole (average value)	Breaking capacity 690V	A mΩ	94 2.5
Power dissipation per pole (average value)		11122	2.0
r ower dissipation per pole (average value)	Power dissipation pole (average value) Ith	W	2.6
	AC3	W	0.8
Tightening torque for terminals	ACS	V V	0.0
gg torque for torriniale	min	Nm	1.5
	max	Nm	1.8
	min	lbft	1.1
	max	lbft	1.5
Tightening torque for coil terminal	max		



		min	Nm	0.8
		max	Nm	1
		min	lbft	0.8
		max	lbft	0.74
max number of wires simultaneously connectable			nr.	2
Conductor section	•			
	AWG			
		min		16
		max		10
	Flexible w/o lug conductor section	max		
	Tickliste with tag deflaction deduction	min	mm²	1
		max	mm²	6
	Flexible c/w lug conductor section	max	111111	
	Flexible C/W lug corluctor section	min	mm²	1
		min		1
	Electrical transfer and transfe	max	mm²	4
	Flexible with insulated spade lug conductor section		•	4
		min	mm²	1
-		max	mm²	4
-	ection according to IEC/EN 60529			IP20 when wired
Auxiliary contact cha	racteristics			
Type of contact				1 NC
Thermal current Ith			Α	10
IEC/EN 60947-5-1 d	esignation			A600 - P600
Operational current A	AC1 (≤40°C)		Α	32
Operating current AC				
, ,		230V	Α	3
		400V	Α	1.9
		500V	A	1.4
Operating current DC	212		- , ,	
Operating current be	J12	110V	Α	5.7
Operating current DO	212	1100		5.1
Operating current DC	J13	241/	۸	F 7
		24V	A	5.7
		48V	A	2.9
		60V	Α	2.3
		110V	Α	Screw / DIN rail
				35mm
		125V	Α	0.6
		220V	A	0.2
A 11		600V	Α	1.2
Ambient conditions				
Temperature				
	Operating temperature			
		min	°C	-50
		max	°C	70
	Storage temperature			
		min	°C	-60
		max	°C	80
Max altitude			m	3000
Operating position				
		normal		Vertical plan
		allowable		±30°
		S5114010		Screw / DIN rail
Mounting				35mm
Weight			g	0.368
oigiit			9	3.000



Operations				
Mechanical life			Cycles	20000000
Electrical life			Cycles	1600000
Safety related data				
Performance level B1	0d according to EN/ISO 13489-1		_	
		rated load	Cicli	1600000
		mechanical load	Cicli	20000000
	ing to IEC/EN 609474-4-1			yes
EMC compatibility				yes
AC coil operating				
AC operating voltage	of EO/GOLLZ and noward at EOLLZ			
	of 50/60Hz coil powered at 50Hz pick-up			
	ріск-ир	min	%Us	0.8
		max	%Us	1.1
	drop-out	max	7000	
	a.op ca.	min	%Us	0.2
		max	%Us	0.55
	of 50/60Hz coil powered at 60Hz			
	pick-up			
		min	%Us	0.85
		max	%Us	1.1
	drop-out			
		min	%Us	0.2
		max	%Us	0.55
	of 60Hz coil powered at 60Hz			
	pick-up		0/11-	0.0
		min	%Us	0.8
	drop out	max	%Us	1.1
	drop-out	min	%Us	0.2
		max	%Us	0.55
AC operating voltage		max	7000	0.00
to operating remage	of 50/60Hz coil powered at 50Hz			
	0. 00/00 <u>_</u> 00. po0. 00 at 00 <u>_</u>	in-rush	VA	75
		holding	VA	9
	of 50/60Hz coil powered at 60Hz	<u> </u>		
	·	in-rush	VA	70
		holding	VA	6.5
	of 60Hz coil powered at 60Hz			
		in-rush	VA	75
		holding	VA	9
Dissipation at holding			W	2.5
Max cycles frequency				
Mechanical operation	S		Cycles/h	3600
Operating times				
Average time for Us of				
	in AC			
	Closing NO	•		0
		min	ms ms	8 24
	Opening NO	max	ms	4 4
	Opening NO			10
		min	ms	1()

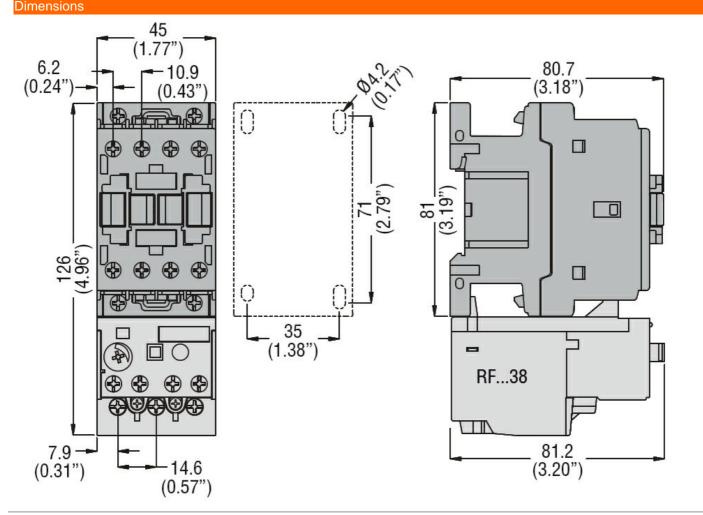


Closing NC			
	min	ms	14
	max	ms	28
Opening NC			
	min	ms	7
	max	ms	18
UL technical data			
Full-load current (FLA) for three-phase AC motor			
	at 480V	Α	14
	at 600V	Α	17
Yielded mechanical performance			
for single-phase AC motor			
	at 110/120V	hp	1
	at 230V	hp	3
for three-phase AC motor			
	at 200/208V	hp	5
	at 220/230V	hp	5
	at 460/480V	hp	10
	at 575/600V	hp	15
Contact rating of auxiliary contacts according to UL			A600 - P600
General USE			

General USE

Contactor

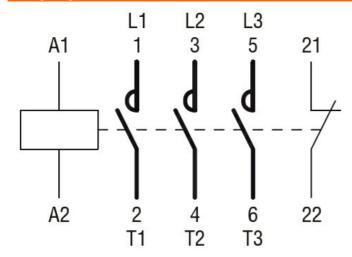
	AC current	_	32
Other features			
Pollution degree			3



ENERGY AND AUTOMATION

THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 18A, AC COIL 50/60HZ, 400VAC, 1NC AUXILIARY CONTACT

Wiring diagrams



Certifications and compliance

Certifications

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

Compliance

CCC

cULus

EAC

ETIM 6 classification

EC000066 - Power contactor, AC switching

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