



Product designation			Power contactor
Product type designation			BF18
Contact characteristics			20
Number of poles		Nr.	4
Rated insulation voltage Ui IEC/EN		V	690
Rated impulse withstand voltage Uimp		kV	6
Operational frequency		N V	
Operational frequency	min	LI-	25
	min	Hz	25
IFO O and the section of the section of the	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-1 (T≤40°C)			
	230V	kW	12
	400V	kW	21
	500V	kW	26
	690V	kW	36
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)	(2,	Α	180
Breaking capacity at voltage			
broaking supusity at voltage	440V	Α	144
	500V	A	120
	690V	A	94
Resistance per pole (average value)	890 /	mΩ	2.5
Power dissipation per pole (average value)		11122	2.5
Power dissipation per pole (average value)	lat.	147	0.0
	Ith	W	2.6
The first transfer to the second set	AC-3	W	0.8
Tightening torque for terminals	_		
	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	lbin	0.74
Max number of wires simultaneously connectable		Nr.	2
·			



FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 32A, DC COIL, 220VDC,

Conductor section	ANNO II C		
	AWG/Kcmil		10
	The vible w/e lug conductor coefficie		10
	Flexible w/o lug conductor section	mm²	1
	mir max	•	6
	Flexible c/w lug conductor section	. 111111	0
	mir	mm²	1
	ma)	•	4
	Flexible with insulated spade lug conductor section		7
	mir	mm²	1
	ma>		4
			IP20 when
Power terminal protec	etion according to IEC/EN 60529		properly wired
Mechanical features			
Operating position			
	norma		Vertical plan
	allowable	!	±30°
Fixing			Screw / DIN rail 35mm
Weight		g	500
Conductor section			
	AWG/kcmil conductor section		
	max	,	10
Auxiliary contact chara	acteristics		
Thermal current Ith		Α	32
IEC/EN 60947-5-1 de:	signation		A600 - P600
Operations			
Mechanical life		cycles	20000000
Electrical life		cycles	1600000
Safety related data			
Performance level B1	0d according to EN/ISO 13489-1		
	rated load	,	1600000
	mechanical load	cycles	20000000
	ng to IEC/EN 609474-4-1		YES
EMC compatibility			yes
DC coil operating			
DC rated control volta	ge	V	220
DC operating voltage			
	pick-up	0/11	70
	mir		70
	dran aut	%Us	125
	drop-out	0/11-	10
	mir		10
Average coil consump	max otion < 20°C	%Us	40
Average con consump		1/1/	5.4
	in-rush bolding		5.4 5.4
Max cycles frequency	holding	VV	ე. 4
Mechanical operation		ovoloo/b	3600
Operating times		cycles/h	3000
	ontrol		
Average time for Us of	UIIIUI		

in AC

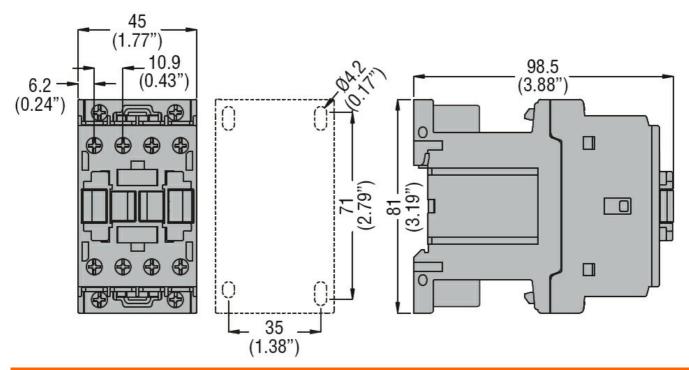
FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 32A, DC COIL, 220VDC,

Closing NO						
Copening NO			Closing NO			•
Opening NO						
Max			Opening NO	max	ms	24
Closing NC			Opening NO	min	me	10
Closing NC						
Max			Closing NC	IIIdx	1113	20
Max			Closing No	min	ms	14
Opening NC						
Min			Opening NC			
In DC			1 3	min	ms	7
Closing NC				max	ms	18
March Marc		in DC				
Max Mis 30 30 30 30 30 30 30 3			Closing NC			
Opening NC				min	ms	
Minimax Mini				max	ms	30
Max			Opening NC			
UL technical data Full-load current (FLA) for three-phase AC motor						
Full-load current (FLA) for three-phase AC motor 14 480V				max	ms	5/
A 14 80V		1) for three phase A	Cmotor			
Teilded mechanical performance for single-phase AC motor 110/120V HP 1 230V HP 3 700/208V HP 5 220/230V HP 5 220/230V HP 5 460/480V HP 10 575/600V HP 15 General USE AC current A 32 Auxiliary contacts AC voltage V 600 AC current A 10 DC voltage V 250 DC voltage V 250 DC current A 1 DC current A 1 Temperature Contact rating of auxiliary contacts according to UL SI - A600 Ambient conditions SI - A600 Temperature Max actitude min °C -50 max °C 80 Resistance & Protection Pollution degree 3	i uii-ioau cuitetti (FLA	a) for tiffee-phase At	O ITIULUI	24 ARU//	Δ	1.4
Yielded mechanical performance for single-phase AC motor 110/120V HP 1 230V HP 3 for three-phase AC motor 200/208V HP 5 220/230V HP 5 460/480V HP 10 575/600V HP 15 General USE AC current A 32 AL current A 10 DC voltage V 600 AC current A 10 DC voltage V 250 DC current A 1 A 1 Contact rating of auxiliary contacts according to UL Ambient conditions Temperature Operating temperature Min °C -50 max °C 70 Storage temperature min °C -50 Max attitude m 3000 Resistance & Protection Pollution degree						
For single-phase AC motor	Yielded mechanical r	performance		at 000 v		
110/120V	riolada medilambar p		AC motor			
For three-phase AC motor 200/208V		ror origio pridoo		110/120V	HP	1
For three-phase AC motor 200/208V						
200/208V		for three-phase A	AC motor			
Contactor		•		200/208V	HP	5
Contactor				220/230V	HP	
Contactor				460/480V	HP	10
Contactor AC current A 32 Ac voltage V 600 AC current A 10 DC voltage V 250 DC current A 1 1 1 1 1 1 1 1 1				575/600V	HP	15
AC current	General USE					
Auxiliary contacts		Contactor				
AC voltage				AC current	Α	32
AC current A 10 DC voltage V 250 DC current A 1 Contact rating of auxiliary contacts according to UL SI - A600 Ambient conditions Temperature		Auxiliary contacts	}		_	
DC voltage V 250 DC current A 1 Contact rating of auxiliary contacts according to UL Ambient conditions Temperature Operating temperature Min				_		
DC current						
Contact rating of auxiliary contacts according to UL SI - A600 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						
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 9 Pollution degree 3	Contact rating of access	lion, contacts assert	ling to I II	DC current	А	
Operating temperature		mary contacts accord	ing to or			31 - M000
Operating temperature min %C -50 max %C 70 Storage temperature min %C -60 max %C 80 Max altitude m 3000 Resistance & Protection 3						
min max °C 70 Storage temperature min °C -60 max °C 80 Max altitude m 3000 Resistance & Protection 3	· omporatoro	Operating temper	rature			
max °C 70 Storage temperature min °C -60 max °C 80 Max altitude m 3000 Resistance & Protection Pollution degree 3		operating temper	0	min	°C	-50
Storage temperature min or company or c						
min max °C -60 max -60 max °C 80 Max altitude m 3000 3000 Resistance & Protection Pollution degree 3		Storage tempera	ture			
Max altitudemax°C80Resistance & Protectionm3000Pollution degree3				min	°C	-60
Max altitude m 3000 Resistance & Protection Pollution degree 3						
Pollution degree 3	Max altitude					
	Resistance & Protect	tion				
Dimensions						3
	Dimensions					

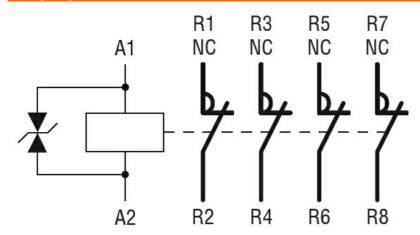


ENERGY AND AUTOMATION

FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 32A, DC COIL, 220VDC,



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

4/4