



Product designation Product type designation			Power contactor BF18
Contact characteristics			
Number of poles		Nr.	4
Rated insulation voltage Ui IEC/EN		V	690
Rated impulse withstand voltage Uimp		kV	6
Operational frequency			
	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)	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)		Α	180
Breaking capacity at voltage			
	440V	Α	144
	500V	Α	120
	690V	Α	94
Resistance per pole (average value)		mΩ	2.5
Power dissipation per pole (average value)			
	Ith	W	2.6
	AC-3	W	0.8
Tightening torque for terminals			
	min	Nm	1.5
	max	Nm	1.8
	min	lbin	1.1
	max	Ibin	1.5
Tightening torque for coil terminal			
	min	Nm	0.8
	max	Nm	1
	min	lbin	0.8
	max	Ibin	0.74
Max number of wires simultaneously connectable		Nr.	2



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Conductor section AWG/Kcmil max 10 Flexible w/o lug conductor section min mm² 1 max mm² 6 Flexible c/w lug conductor section min mm² 1 max mm² 4 Flexible with insulated spade lug conductor section min mm² 1 max mm² 4 Flexible with insulated spade lug conductor section Power terminal protection according to IEC/EN 60529 Mechanical features
Max 10
min mm² 1 max mm² 6 Flexible c/w lug conductor section min mm² 1 max mm² 1 max mm² 4 Flexible with insulated spade lug conductor section min mm² 1 max mm² 4 Flexible with insulated spade lug conductor section min mm² 1 max mm² 4 Power terminal protection according to IEC/EN 60529 IP20 when properly wired
min mm² 1 max mm² 6 Flexible c/w lug conductor section min mm² 1 max mm² 1 max mm² 4 Flexible with insulated spade lug conductor section min mm² 1 max mm² 4 Flexible with insulated spade lug conductor section min mm² 1 max mm² 4 Power terminal protection according to IEC/EN 60529 IP20 when properly wired
Flexible c/w lug conductor section min mm² 1 max mm² 4 Flexible with insulated spade lug conductor section min mm² 1 max mm² 1 max mm² 4 Power terminal protection according to IEC/EN 60529 IP20 when properly wired
min mm² 1 max mm² 4 Flexible with insulated spade lug conductor section min mm² 1 max mm² 4 Flexible with insulated spade lug conductor section min mm² 1 max mm² 4 Power terminal protection according to IEC/EN 60529 IP20 when properly wired
Flexible with insulated spade lug conductor section min mm² 1 max mm² 4 min mm² 1 max mm² 4 Power terminal protection according to IEC/EN 60529 IP20 when properly wired
Flexible with insulated spade lug conductor section min mm² 1 max mm² 4 Power terminal protection according to IEC/EN 60529 IP20 when properly wired
min mm² 1 max mm² 4 Power terminal protection according to IEC/EN 60529 IP20 when properly wired
Power terminal protection according to IEC/EN 60529 max mm² 4 IP20 when properly wired
Power terminal protection according to IEC/EN 60529 IP20 when properly wired
Power terminal protection according to IEC/EN 60529 properly wired
Operating position
normal Vertical plan
allowable ±30°
Fixing Screw / DIN ra 35mm
Weight g 496
Conductor section
AWG/kcmil conductor section
max 10
Auxiliary contact characteristics
Thermal current Ith A 32 IEC/EN 60947-5-1 designation A600 - P600
IEC/EN 60947-5-1 designation A600 - P600 Operations
Mechanical life cycles 20000000
Electrical life cycles 1600000
Safety related data
Performance level B10d according to EN/ISO 13489-1
rated load cycles 1600000
mechanical load cycles 20000000
Mirror contats according to IEC/EN 609474-4-1 YES
EMC compatibility yes
DC coil operating
DC rated control voltage V 48
DC operating voltage
pick-up min %Us 80
max %Us 110
111dA /0US 11U
drop-out
drop-out min %Us 10
min %Us 10
\cdot
min %Us 10 max %Us 40
min %Us 10 max %Us 40 Average coil consumption ≤20°C
min %Us 10 max %Us 40 Average coil consumption ≤20°C in-rush W 2.4
min min max %Us 40 Average coil consumption ≤20°C in-rush W 2.4 holding W 2.4 Max cycles frequency cycles/h 3600
min min max %Us do with the following win the following with the following with the following with the fo

in AC



		Clasias NO			
		Closing NO	min	 .	0
			min	ms	8 24
		Opening NO	max	ms	24
		Opening NO	min	ms	10
			max	ms	20
		Closing NC	Пах	1110	20
			min	ms	14
			max	ms	28
		Opening NC			
			min	ms	7
			max	ms	18
	in DC				
		Closing NC			
			min	ms	24
			max	ms	30
		Opening NC			
			min	ms	67
			max	ms	81
UL technical data					
Full-load current (FLA)	for three-phase AC mot	or			
			at 480V	Α	14
			at 600V	A	17
Yielded mechanical pe					
	for single-phase AC m	otor			
			110/120V	HP	1
			230V	HP	3
	for three-phase AC mo	otor	000/000/		_
			200/208V	HP	5
			220/230V	HP	5
			460/480V	HP	10
0			575/600V	HP	15
General USE	Ocatostan				
	Contactor		AC gurrant	٨	20
	Auvilian, contacts		AC current	A	32
	Auxiliary contacts		AC valtage	V	600
			AC voltage AC current	V A	10
			DC voltage	V	250
			DC voltage DC current	V A	250 1
Contact rating of auxilia	ary contacts according to		DO Curient		SI - A600
Ambient conditions	ary contacts according to	000			01 A000
Temperature					
Tomporataro	Operating temperature				
	- possessing tomporature		min	°C	-50
			max	°C	70
	Storage temperature				
	G		min	°C	-60
			max	°C	80
Max altitude				m	3000
Resistance & Protection	on				
Pollution degree					3
Certifications and com	pliance				
Compliance					





ENERGY AND AUTOMATION

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

ETIM classification

ETIM 8.0

EC000066 -Power contactor, AC switching