

FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 32A, DC COIL, 48VDC, 2NO AND 2NC



Product designation Product type designation			Power contactor BF18
Contact characteristics			5. 10
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)		$m\Omega$	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	lbin	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, 48VDC, 2NO AND 2NC

Conductor section max 10 Flexible w/o lug conductor section min min mm² mm² mm² mm² mm² mm² mm² mm² mm² mm				
Flexible w/o lug conductor section	Conductor section			
Flexible w/o lug conductor section				
Flexible c/w lug conductor section				10
Flexible c/w lug conductor section			mm²	1
Flexible c/w lug conductor section				
Province			111111	
Flexible with insulated spade lug conductor section			mm²	1
Mary		max	mm²	4
Power terminal protection according to IEC/EN 60529 Power terminal protection and allowable Power terminal protection Power terminal protection and allowable Power terminal protection		Flexible with insulated spade lug conductor section		
Power terminal protection according to IEC/EN 60529 IP20 when properly wired wired wired features IP20 when properly wired IP20 when properly IP20 when properly wired IP20		min		1
Mechanical features		max	mm²	
Mechanical leatures Operating position normal allowable Vertical plan 430° Fixing 3cm 3cm Weight 9 500 Operations cycles 20000000 Beding Infectional life cycles 20000000 Electrical life cycles 1600000 Safety related data rated load cycles 1600000 Performance level B 10d according to EN/ISO 13489-1 rated load cycles 1600000 EMC compatibility yes 20000000 EMC compatibility yes 20000000 EMC compatibility yes 20000000 DC operating voltage yes 20000000 DC operating voltage min %Us 70 Max operation voltage min %Us 10 Average coil consumption ≤20°C in-rush %Us 4 Max operation cycles // to with the proper time of	Power terminal protect	tion according to IEC/EN 60529		
Operating position Normal allowable Vertical plan tags of the pla	Mechanical features			properly wired
Pixing				
Screw / DIN rail 35mm 35m	. • •	normal		Vertical plan
Fixing Weight		allowable		
Operations Mechanical life cycles 20000000 Electrical life cycles 1600000 Safety related data Performance level B10d according to EN/ISO 13489-1 rated load mechanical load cycles 1600000 cycles 200000000 EMC compatibility yes DC coil operating Use and control voltage y 48 DC operating voltage min	Fixing			
Mechanical life cycles 20000000 Electrical life cycles 1600000 Safety related data Performance level B10d according to EN/ISO 13489-1 rated load mechanical load cycles 1600000 200000000 EMC compatibility yes DC cated control voltage V 48 DC rated control voltage y 48 DC operating voltage min %Us 70 Machanical control voltage min %Us 10 Average coil consumption ≤20°C in-rush holding %Us 5.4 Max cycles frequency Max cycles frequency Mechanical operation 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 min ms <td>Weight</td> <td></td> <td>g</td> <td>500</td>	Weight		g	500
Electrical life cycles 1600000 Safety related data Performance level B10d according to EN/ISO 13489-1 rated load cycles 1600000 cycles 200000000 EMC compatibility yes Coil operating DC rated control voltage pick-up min wull substitute with substit substitute with substitute with substitute with substitute with				
Safety related data Performance level B10d according to EN/ISO 13489-1 rated load cycles 1600000 mechanical load cycles 200000000				
Performance level B10d according to EN/ISO 13489-1 rated load mechanical load cycles 20000000 mechanical load cycles 200000000 EMC compatibility yes DC coil operating DC rated control voltage V 48 DC operating voltage min %Us 70 min will will will be found to			cycles	1600000
Rated load Cycles 1600000 16000000 1600000000000000	-	L		
EMC compatibility yes DC coll operating V 48 DC rated control voltage V 48 DC operating voltage pick-up min %Us 70 drop-out min %Us 10 drop-out min %Us 10 Merage coil consumption ≤20°C in-rush Molding W 5.4 Mechanical operation cycles/h 3600 Operating times Average time for Us control in AC Closing NO min ms 8 Opening NO min ms 8 Merage time for Us control in AC Closing NO min ms 24 Opening NO min ms 20 Closing NC	Performance level B10			400000
EMC compatibility yes DC coil operating			-	
DC coil operating DC rated control voltage V 48	EMC compatibility	medianical load	Cyclos	
DC rated control voltage V 48 DC operating voltage min %Us 70 max %Us 125 drop-out min %Us 10 max %Us 40 Average coil consumption ≤20°C in-rush My 5.4 holding W 5.4 Max cycles frequency w 5.4 Mechanical operation cycles/h 3600 Operating times cycles/h 3600 Average time for Us control in AC min ms 8 ms 24 Closing NO min ms 24 Opening NO min ms 10 ms 10 ms ms 20 Closing NC min ms 20				yee
Pick-up min %Us 70 max %Us 125	-	ge	V	48
Min MUS 70 Max MUS 125 Morp-out Morp-o	DC operating voltage			
Max Mus 125 10 10 10 10 10 10 10 1		pick-up		
Average coil consumption ≤20°C min max min max				
min %Us 10 max %Us 40 Average coil consumption ≤20°C in-rush W 5.4 holding W 5.4 Max cycles frequency Mechanical operation 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			%Us	125
max%Us40Average coil consumption ≤20°Cin-rush holdingW5.4in-rush holdingW5.4Max cycles frequencyEvcles/h3600Mechanical operationcycles/h3600Operating timesAverage time for Us controlin ACminms8maxms24Opening NOminms10maxms20Closing NCClosing NC			0/11-	10
Average coil consumption ≤20°C in-rush W 5.4 holding W 5.4 Max cycles frequency Mechanical operation 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				
In-rush W 5.4 holding W 5.4	Average coil consumn		/0US	40
Max cycles frequency Mechanical operation cycles/h 3600 Operating times Average time for Us control in AC Imax	, worage con consump		W	5.4
Mechanical operation 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				
Mechanical operation 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	Max cycles frequency			
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	Mechanical operation		cycles/h	3600
in AC Closing NO min ms 8 max ms 24 Opening NO min ms 10 max ms 20 Closing NC				
Closing NO min ms 8 max ms 24 Opening NO min ms 10 max ms 20 Closing NC	Average time for Us co			
min ms 8 max ms 24 Opening NO min ms 10 max ms 20 Closing NC				
Opening NO min ms 10 max ms 24 Closing NC				0
Opening NO min ms 10 max ms 20 Closing NC				
min ms 10 max ms 20 Closing NC			ms	∠4
max ms 20 Closing NC		, -	me	10
Closing NC				
			5	-
			ms	14



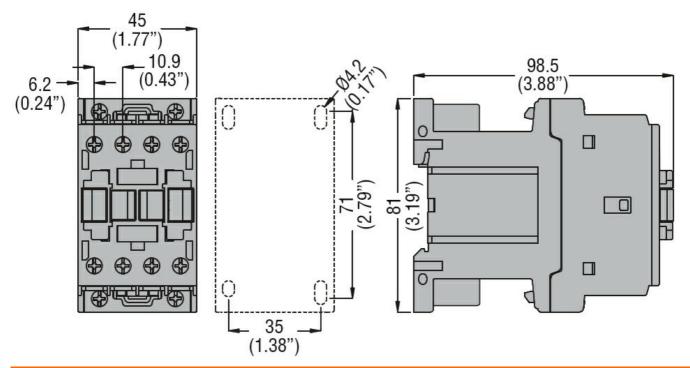


FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 32A, DC COIL, 48VDC, 2NO AND 2NC

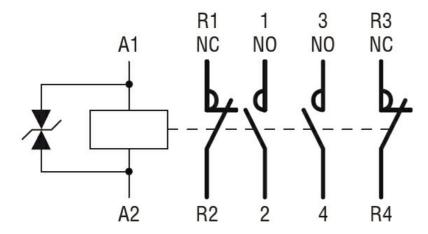
		max	ms	28
	Opening NC			
	3 -	min	ms	7
		max	ms	18
	in DC			
	Closing NO			
	Closing IVS	min	ms	54
		max	ms	66
	Opening NO	тах	1110	00
	Sporting 113	min	ms	14
		max	ms	17
	Closing NC	παλ	1113	17
	Closing NC	min	ms	24
	Opening NC	max	ms	30
	Opening NC	min	ma	47
		min	ms	
III to obnice Lete		max	ms	57
UL technical data	to the A.C. (LIII.)		\ /	000
Rated operational volt			V	600
Full-load current (FLA) for three-phase AC motor		_	
		at 480V	Α	14
		at 600V	A	17
Yielded mechanical p				
	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				
	Contactor			
		AC current	Α	32
Ambient conditions				
Temperature				
•	Operating temperature			
	1 3 1	min	°C	-50
		max	°C	70
	Storage temperature	Пих		
	Cicrago temperaturo	min	°C	-60
		max	°C	80
Max altitude		IIIdA	m	3000
Resistance & Protecti	ion		111	3000
Pollution degree				3
				J
Dimensions				

ENERGY AND AUTOMATION

FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 32A, DC COIL, 48VDC, 2NO AND 2NC



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