



Product designation			Power contactor
Product type designation			BF25
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		А	32
Operating current			
	Operational current AC1 (≤40°C)	А	32
	Operational current AC3 (≤440V ≤55°C)	А	25
	Operational current AC4 (400V)	А	10
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	7
	400V	kW	12.5
	415V	kW	13.4
	440V	kW	13.4
	500V	kW	15
	690V	kW	11
Short-time allowable current for 10s (IEC/EN60947-1)		А	200
Protection fuse	,		
	gG (IEC)	А	50
	aM (IEC)	А	25
Making capacity (RMS value)		А	250
Breaking capacity at voltage			
5 1 5 5	Breaking capacity 440V	А	200
	Breaking capacity 500V	А	184
	Breaking capacity 690V	А	102
Resistance per pole (average value)	0 1 7	mΩ	2.5
Power dissipation per pole (average value)			
1 1 1 (3)	Power dissipation pole (average value) Ith	W	2.6
	ÁC3	W	1.6
Tightening torque for terminals			
	min	Nm	1.5
	max	Nm	1.8
	min	lbft	1.1
	max	lbft	1.5

Tightening torque for coil terminal



	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			
	min	mm²	1
	max	mm²	6
Flexible c/w lug conductor section			
	min	mm²	1
	max	mm²	4
Flexible with insulated spade lug conductor sect	tion		
	min	mm²	1
	max	mm²	4
Power terminal protection according to IEC/EN 60529			IP20 when wired
Auxiliary contact characteristics			
Type of contact			1 NC
Thermal current Ith		А	10
IEC/EN 60947-5-1 designation			A600 - P600
Operational current AC1 (≤40°C)		А	32
Operating current AC15			
	230V	А	3
	400V	А	1.9
	500V	A	1.4
Operating current DC12			
	110V	А	5.7
Operating current DC13			
	24V	А	5.7
	48V	A	2.9
	40V 60V	A	2.3
		~	Screw / DIN rail
	110V	Α	35mm
	125V	А	0.6
	220V	A	0.2
	600V	A	1.2
Ambient conditions	0001	7	112
Temperature			
		°C	-50
Temperature Operating temperature	min		
	min		70
Operating temperature	min max	°C	70
	max	°C	
Operating temperature	max min	°C °C	-60
Operating temperature Storage temperature	max	2° 2° 2°	-60 80
Operating temperature Storage temperature Max altitude	max min	°C °C	-60
Operating temperature Storage temperature Max altitude	max min max	2° 2° 2°	-60 80 3000
Operating temperature Storage temperature Max altitude	max min max normal	2° 2° 2°	-60 80 3000 Vertical plan
Operating temperature Storage temperature Max altitude	max min max	2° 2° 2°	-60 80 3000 Vertical plan ±30°
	max min max normal	2° 2° 2°	-60 80 3000 Vertical plan

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Operations Mechanical life 20000000 Cycles Electrical life 1200000 Cycles Safety related data Performance level B10d according to EN/ISO 13489-1 1200000 rated load Cicli mechanical load Cicli 20000000 Mirror contats according to IEC/EN 609474-4-1 yes EMC compatibility yes AC coil operating AC operating voltage of 50/60Hz coil powered at 50Hz pick-up %Us 0.8 min max %Us 1.1 drop-out %Us 0.2 min max %Us 0.55 of 50/60Hz coil powered at 60Hz pick-up %Us 0.85 min max %Us 1.1 drop-out %Us min 0.2 %Us 0.55 max of 60Hz coil powered at 60Hz pick-up min %Us 0.8 max %Us 1.1 drop-out min %Us 0.2 max %Us 0.55 AC operating voltage of 50/60Hz coil powered at 50Hz in-rush VA 75 holding VA 9 of 50/60Hz coil powered at 60Hz VA 70 in-rush holding VA 6.5 of 60Hz coil powered at 60Hz VA 75 in-rush holding VA 9 Dissipation at holding ≤20°C 50Hz W 2.5 Max cycles frequency Mechanical operations Cycles/h 3600 Operating times Average time for Us control in AC **Closing NO** min 8 ms 24 max ms

min

ms

10 20

Opening NO

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14

ms

min

Closing NC



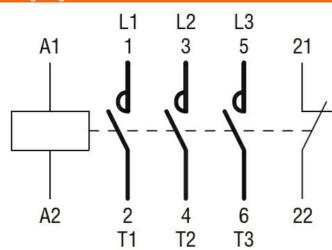
	min	ms	14
	max	ms	28
Opening NC			
opoining ite	min	ms	7
	max	ms	18
JL technical data	IIIdx	1113	10
ull-load current (FLA) for three-phase AC motor	(100) /		
	at 480V	A	21
	at 600V	A	17
ielded mechanical performance			
for single-phase AC motor			
	at 110/120V	hp	2
	at 230V	hp	3
for three-phase AC motor			
	at 200/208V	hp	7.5
	at 220/230V	hp	7.5
	at 460/480V	hp	15
	at 575/600V	hp	15
Contact rating of auxiliary contacts according to UL			A600 - P600
General USE			7,000 1,000
Contactor			
Contactor	AC current	^	22
Other features	AC current	A	32
			0
Pollution degree Dimensions			3
45 (1.77")			
6.2 - 10.9	8	0.7 _	
(0.24") - (0.43")	(3.	18")	
	1 4		
	5		
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		<u> </u>	
(1.38″)			
	RF38		
	ni		
			8
		11	
7.9	8	/ 1.2	
7.9 - 14.6		/ 1.2 20")	
(0.31") 4.6	8 (3.)	/ 1.2 20")	-
(0.31") $14.6(0.57")$	8 (3.)	/ 1.2 20")	

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Wiring diagrams



Certifications and compliance

Certifications

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