



Product designation			Power contactor
Product type designation			BF25
Contact characteristics			B1 20
		pr.	2
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			-
Operating current	Operational current $AC1$ (<10°C)	۸	32
	Operational current AC1 (≤40°C)	A	
	Operational current AC3 (≤440V ≤55°C)	A	25
	Operational current AC4 (400V)	A	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/EN	60947-1)	А	200
Protection fuse	· · · ·		
	gG (IEC)	А	50
	aM (IEC)	A	25
Making capacity (PMS value)		A	250
Making capacity (RMS value)		A	250
Breaking capacity at voltage			
	Breaking capacity 440V	A	200
	Breaking capacity 500V	А	184
	Breaking capacity 690V	Α	102
Resistance per pole (average value)		mΩ	2.5
Power dissipation per pole (average value)			
,	Power dissipation pole (average value) Ith	W	2.6
	AC3	W	1.6
Tightening torque for terminals	A03	vv	1.0
rightening torque for terminals		Nies	A F
	min	Nm	1.5
	max	Nm	1.8
	min	lbft	1.1
	max	lbft	1.5

Tightening torque for coil terminal



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	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			10
	min		16
	max		10
Flexible w/o lug conductor section			4
	min	mm²	1
	max	mm²	6
Flexible c/w lug conductor section		2	
	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 wired
Auxiliary contact characteristics			
Type of contact			1 NO
Thermal current Ith		Α	10
IEC/EN 60947-5-1 designation			A600 - P600
Operational current AC1 (≤40°C)		Α	32
Operating current AC15			
	230V	А	3
	400V	А	1.9
	500V	А	1.4
Operating current DC12			
	110V	А	5.7
Operating current DC13			
	24V	А	5.7
	48V	А	2.9
	60V	A	2.3
			Screw / DIN rail
	110V	A	35mm
	125V	А	0.6
	220V	A	0.2
	600V	A	1.2
Ambient conditions	0001	,,	
Temperature			
Operating temperature			
Operating temperature	min	°C	-50
	max	°C	-50 70
Storage temperature	Παλ	U	10
Storage temperature	min	°C	60
	min	°C	-60 80
Max altituda	max		
Max altitude		m	3000
Operating position			
	normal		Vertical plan
			±30°
	allowable		
Mounting	allowable		Screw / DIN rail 35mm

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Operations Mechanical life Cycles 20000000 Electrical life 1200000 Cycles Safety related data Performance level B10d according to EN/ISO 13489-1 1200000 rated load Cicli 20000000 mechanical load Cicli 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 %Us 1.1 max 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 0.55 max %Us 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 Cycles/h 3600 Mechanical operations Operating times Average time for Us control

in AC

Closing NO

	min max	ms ms	8 24	
Opening NO				
	min	ms	10	
	max	ms	20	

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min

14

ms

Closing NC



	max	ms	28
Opening NC	Παλ	1113	20
	min		7
	min	ms	7
	max	ms	18
UL technical data			
Full-load current (FLA) for three-phase AC motor		_	
	at 480V	А	21
	at 600V	A	17
Yielded 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			
Contactor			
	AC current	А	32
Other features			
Pollution degree			3
Dimensions			5
$\begin{array}{c} 6.2\\ (0.24") \\ (0.24") \\ (0.43") \\ (0.4$	(3. (3. (6. (1. (6. (1.)) (1.)	0.7 18") ⁻ - - - - - - - - - - - - - - - - - -	
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ENERGY AND AUTOMATION

Wiring diagrams

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110VAC, 1NO AUXILIARY CONTACT

L1 L2 L3 3 5 A1 13 (A2 6 2 14 4 **T**3

T2

Certifications and compliance

T1

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 algoritization	

ETIM 6 classification

EC000066 - Power contactor, AC switching