#### electric FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 600A, AC/DC COIL, 250... 500VAC/DC **ENERGY AND AUTOMATION**



Product designation Product type designation			Power contactor BF400
Contact characteristics			B1 100
Number of poles		Nr.	4
Rated insulation voltage Ui IEC/EN		V	1000
Rated impulse withstand voltage Uimp		kV	8
Operational frequency			
-1	min	Hz	25
	max	Hz	400
IEC Conventional free air thermal current Ith		Α	600
Operational current le			
•	AC-1 (≤40°C)	Α	600
	AC-1 (≤55°C)	Α	500
	AC-1 (≤70°C)	Α	435
	AC-3 (≤440V ≤55°C)	Α	400
	AC-4 (400V)	Α	190
Rated operational power AC-3 (T≤55°C)	,		
	230V	kW	110
	400V	kW	200
	415V	kW	200
	440V	kW	200
	500V	kW	250
	690V	kW	315
	1000V	kW	200
Rated operational current AC-3 (T≤55°C)			
	230V	Α	400
	400V	Α	400
	415V	Α	400
	440V	Α	400
	500V	Α	350
	690V	Α	350
	1000V	Α	155
Rated operational power AC-1 (T≤40°C)			
	230V	kW	227
	400V	kW	395
	500V	kW	434
	690V	kW	681
IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series			
	75V	Α	400
	110V	Α	250
IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series			
	75V	Α	400
	110V	Α	400
	220V	Α	350
IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series			



BF400T4E400

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	75V	Α	400
	110V	Α	400
	220V	Α	400
	330V	Α	350
EC max current le in DC1 with L/R ≤ 1ms with 4 poles in series			
'	75V	Α	400
	110V	Α	400
	220V	Α	400
EC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series			
20 max carrent to in 200 200 mai 2/11 - Tome mai 1 polec in conce	75V	Α	350
	110V	A	200
EC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series	1100		200
EC max current le in DC3-DC3 with E/N = 13ms with 2 poles in series	75V	٨	350
	110V	A	
		A	350
FO	220V	Α	280
EC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series	75)		0.50
	75V	A	350
	110V	A	350
	220V	Α	350
	330V	A	280
EC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series			
	75V	Α	350
	110V	Α	350
	220V	Α	350
	330V	Α	350
	460V	Α	280
Short-time allowable current for 10s (IEC/EN60947-1)		Α	3200
Protection fuse			
	gG (IEC)	Α	800
	aM (IEC)	Α	500
Making capacity (RMS value)		Α	4000
Breaking capacity at voltage			
	440V	Α	3200
	500V	Α	2752
	690V	Α	2504
Resistance per pole (average value)		mΩ	0.12
Power dissipation per pole (average value)		11132	0.12
ower dissipation per pole (average value)	Ith	W	43.2
	AC-3	W	19
Tightoning targue for terminals	AC-3	VV	19
ightening torque for terminals		N I	25
	min	Nm	35
	max	Nm	35
	min	lbin	310
	max	Ibin	310
ightening torque for coil terminal			
	min	Nm	0.8
	max	Nm	1
Power terminal protection according to IEC/EN 60529			IP00
Mechanical features			
Operating position			
	normal		Vertical plan
	allowable		±30°
Fixing			Screw
<b>U</b>			



**ENERGY AND AUTOMATION** 

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Operations Mechanical life 5000000 cycles Electrical life 600000 cycles Safety related data Performance level B10d according to EN/ISO 13489-1 1000000 rated load cycles **EMC** compatibility yes AC coil operating Rated AC voltage at 50/60Hz, 60Hz ٧ 250 min 500 max AC operating voltage of 50/60Hz coil powered at 50Hz pick-up %Us 80 Us min min max %Us 110 Us max drop-out %Us ≤70 Us min max of 50/60Hz coil powered at 60Hz pick-up %Us 80 Us min min max %Us 110 Us max drop-out %Us ≤70 Us min max AC average coil consumption at 20°C of 50/60Hz coil powered at 50Hz VA 160...320 in-rush 3.5...8.0 holding VA of 50/60Hz coil powered at 60Hz 160...320 in-rush VA holding VA 3.5...8.0 of 60Hz coil powered at 60Hz in-rush VA 160...320 holding VA 3.5...8.0 Dissipation at holding ≤20°C 50Hz W 3.5...8.0 DC coil operating DC rated control voltage min ٧ 250 ٧ 500 max DC operating voltage pick-up %Us 85 Us min min %Us 110 Us max max drop-out %Us ≤70 Us min max Average coil consumption ≤20°C in-rush W 160...230 holding W 3.5...8.0 Max cycles frequency Mechanical operation 1000 cycles/h Operating times Average time for Us control

in /

in AC

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)

	min	ms	80
	max	ms	120
Opening NO			
	min	ms	30
	max	ms	75

## UL technical data

### Yielded mechanical performance

for three-phase AC motor

200/208V	HP	125
220/230V	HP	150
460/480V	HP	350
575/600\/	HD	400

Α

### General USE

Contactor

Short-circuit protection fuse, 600V

High fault

Standard fault

Short circuit current	kA	100
Fuse rating	Α	600
Fues alses		

AC current

Fuse class

Short circuit current kΑ Fuse rating

Fuse class

18 600 Α RK5

600

## Ambient conditions

### Temperature

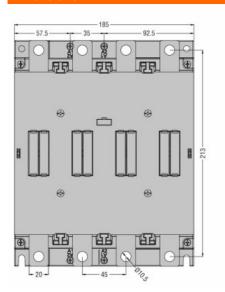
Operating temperature				
	min	°C	-40	
	max	°C	70	
Storage temperature				
	min	°C	-50	
	max	°C	80	
		m	3000	

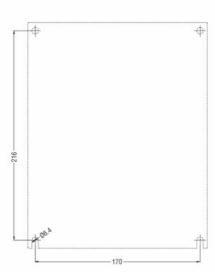
#### Resistance & Protection

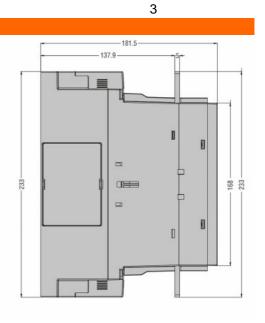
Pollution degree

## **Dimensions**

Max altitude



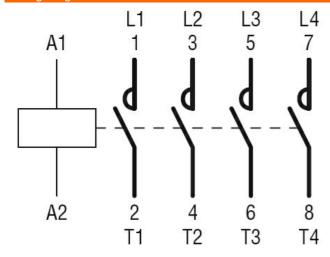




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#### Wiring diagrams



## 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

cULus

## ETIM classification

**ETIM 8.0** 

EC000066 -Power contactor, AC switching