#### 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 perso in centee	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	۸	350
	110V	A	
		A	350
50	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
oner alsoipation per pero (average value)	Ith	W	43.2
	AC-3	W	43.2 19
Fightening torque for terminals	AU-3	٧٧	13
ignitering torque for terminals		N I	25
	min	Nm	35
	max	Nm	35
	min	lbin	310
	max	Ibin	310
Fightening 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
ining			JOICW



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Operations				
Mechanical life			cycles	5000000
Electrical life			cycles	600000
Safety related data			,	
	d according to EN/ISO 13489-1			
		rated load	cycles	1000000
EMC compatibility				yes
AC coil operating				
Rated AC voltage at 50	0/60Hz, 60Hz			
		min	V	250
		max	V	500
AC operating voltage				
	of 50/60Hz coil powered at 50Hz			
	pick-up			
		min	%Us	80 Us min
		max	%Us	110 Us max
	drop-out		0/11	<70.11. · · ·
	of F0/001  = apil =	max	%Us	≤70 Us min
	of 50/60Hz coil powered at 60Hz			
	pick-up	mai:-	%Us	80 Us min
		min	%Us %Us	110 Us min
	drop-out	max	/ <sub>0</sub> US	110 09 IIIdX
	arop-out	max	%Us	≤70 Us min
AC average coil consu	motion at 20°C	IIIdA	,0 <b>0</b> 3	_, 0 03 111111
AO average con consu	of 50/60Hz coil powered at 50Hz			
	01 00/001 12 0011 poworod at 001 12	in-rush	VA	160320
		holding	VA	3.58.0
	of 50/60Hz coil powered at 60Hz			
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	in-rush	VA	160320
		holding	VA	3.58.0
	of 60Hz coil powered at 60Hz			
	·	in-rush	VA	160320
		holding	VA	3.58.0
Dissipation at holding ≤	20°C 50Hz		W	3.58.0
DC coil operating				
DC rated control voltag	e			
		min	V	250
		max	V	500
DC operating voltage				
	pick-up			
		min	%Us	85 Us min
		max	%Us	110 Us max
	drop-out		0/11	.70.11
		max	%Us	≤70 Us min
Average coil consumpt	ion ≤20°C		10.	100 000
		in-rush	W	160230
May ayalaa faa ayaa		holding	W	3.58.0
Max cycles frequency			/I	4000
Mechanical operation			cycles/h	1000
Operating times	natural .			
Average time for Us co	ITILI OI			

in AC

FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 600A, AC/DC COIL, 250... 500VAC/DC

Closing I	VО
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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

200/2087	HP	125
220/230V	HP	150
460/480V	HP	350
575/600V	HP	400

Α

600

### General USE

Contactor

Short-circuit protection fuse, 600V

High fault

Short circuit current	kA	100
Fuse rating	Α	600
Fuse class		J

AC current

Standard fault

Short circuit current kΑ 18 600 Fuse rating Α Fuse class RK5

### Ambient conditions

### Temperature

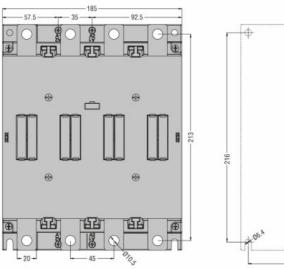
Operating temperature				
	min	°C	-40	
	max	°C	70	
Storage temperature				
	min	°C	-50	
	max	°C	80	
		m	3000	

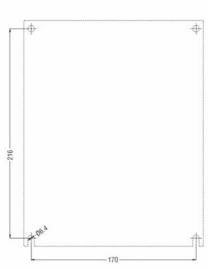
#### Resistance & Protection

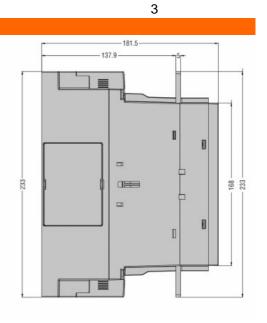
Pollution degree

## **Dimensions**

Max altitude



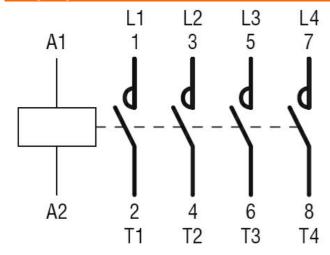




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**ENERGY AND AUTOMATION** 

#### 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