



Product designation Product type designation			Power contactor BF400
Contact characteristics			DI 400
Number of poles		Nr.	3
Rated insulation voltage Ui IEC/EN		V	1000
Rated impulse withstand voltage Uimp		kV	8
Operational frequency			
	min	Hz	25
	max	Hz	400
IEC Conventional free air thermal current Ith		А	600
Operational current le			
	AC-1 (≤40°C)	А	600
	AC-1 (≤55°C)	А	500
	AC-1 (≤70°C)	А	435
	AC-3 (≤440V ≤55°C)	А	400
	AC-4 (400V)	А	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	А	400
	400V	А	400
	415V	А	400
	440V	А	400
	500V	А	350
	690V	А	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 $L/R \le 1$ ms with 1 poles in series			
	75V	А	400
	110V	А	250
IEC max current le in DC1 with $L/R \le 1$ ms with 2 poles in series			
	75V	А	400
	110V	А	400
	220V	Α	350

## IEC max current le in DC1 with $L/R \le 1$ ms with 3 poles in series



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AC3) = 400A,	AC/DC COIL
100	250VAC/DC

	75V	А	400
	110V	А	400
	220V	А	400
	330V	А	350
EC max current le in DC1 with $L/R \le 1$ ms with 4 poles in series			
	75V	А	400
	110V	А	400
	220V	А	400
EC max current le in DC3-DC5 with $L/R \le 15$ ms with 1 poles in series			
	75V	А	350
	110V	А	200
EC max current le in DC3-DC5 with $L/R \le 15$ ms with 2 poles in series			
·	75V	А	350
	110V	A	350
	220V	A	280
EC max current le in DC3-DC5 with L/R $\leq$ 15ms with 3 poles in series			
	75V	А	350
	110V	A	350
	220V	A	350
	330V	A	280
EC max aurrent to in DC2 DC5 with L/D < 15mg with 4 poles in sorias	330 V	A	200
EC max current le in DC3-DC5 with L/R $\leq$ 15ms with 4 poles in series	75\/	٨	250
	75V	A	350 350
	110V	A	350
	220V	A	350
	330V	A	350
	460V	A	280
Short-time allowable current for 10s (IEC/EN60947-1)		А	3200
Protection fuse			
	gG (IEC)	A	800
	aM (IEC)	A	500
Making capacity (RMS value)		А	4000
Breaking capacity at voltage			
	440V	А	3200
	500V	А	2752
	690V	Α	2504
Resistance per pole (average value)		mΩ	0.12
Power dissipation per pole (average value)			
	lth	W	43.2
	AC-3	W	19
Tightening torque for terminals			
	min	Nm	35
	max	Nm	35
	min	lbin	310
	max	Ibin	310
Fightening torque for coil terminal		Ibin	310
Tightening torque for coil terminal	max		
Tightening torque for coil terminal	max min	Nm	0.8
	max		0.8 1
Power terminal protection according to IEC/EN 60529	max min	Nm	0.8
Power terminal protection according to IEC/EN 60529 Mechanical features	max min	Nm	0.8 1
Power terminal protection according to IEC/EN 60529	max min max	Nm	0.8 1 IP00
Power terminal protection according to IEC/EN 60529 Mechanical features	max min	Nm	0.8 1

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**BF40000E230** THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 400A, AC/DC COIL, 100...250VAC/DC

Mechanical life			cycles	5000000
Electrical life			cycles	600000
Safety related data				
Performance level B10	Dd according to EN/ISO 13489-1			
		rated load	cycles	1000000
EMC compatibility				yes
C coil operating				
Rated AC voltage at 50	0/60Hz, 60Hz			
		min	V	100
		max	V	250
AC operating voltage				
	of 50/60Hz coil powered at 50Hz			
	pick-up			
		min	%Us	80 Us min
		max	%Us	110 Us max
	drop-out			
		max	%Us	≤70 Us min
	of 50/60Hz coil powered at 60Hz			
	pick-up			
		min	%Us	80 Us min
		max	%Us	110 Us max
	drop-out			
		max	%Us	≤70 Us min
AC average coil consu	•			
	of 50/60Hz coil powered at 50Hz			
		in-rush	VA	160320
		holding	VA	3.58.0
	of 50/60Hz coil powered at 60Hz			
		in-rush	VA	160320
		holding	VA	3.58.0
	of 60Hz coil powered at 60Hz	1 I		400 000
		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	Je		17	100
		min	V V	100 250
DC operating voltage		max	v	200
	nick-un			
	pick-up	min	%Us	85 Us min
		max	%Us %Us	110 Us max
	drop-out	IIIdX	/003	110 03 110
		max	%Us	≤70 Us min
verage coil consump	tion <20°C	IIIdA	/003	_/ 0 03 mm
worage con consump		in-rush	W	160230
		holding	W	3.58.0
Aax cycles frequency			VV	0.00.0
Max cycles frequency Mechanical operation			cycles/h	1000
			0,000,011	1000
Operating times				

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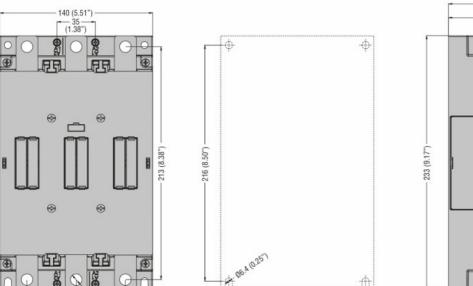


THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 400A, AC/DC COIL, 100...250VAC/DC

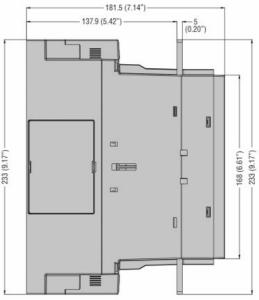
	Closing NO	min		90
		min	ms	80
		max	ms	120
	Opening NO			20
		min	ms	30 75
UL technical data		max	ms	75
Yielded mechanical pe	orformance			
neided mechanical pe				
	for three-phase AC motor	200/208V	HP	125
		200/208V 220/230V	пР HP	125
		460/480V	нР НР	350
		460/480V 575/600V	нР НР	400
General USE		VUU0/C1C	٦P	400
General USE	Contactor			
	Contactor		٨	600
		AC current	A	600
Short-circuit protection				
	High fault	Ob ant almost to summer t	1. 4	400
		Short circuit current	kA	100
		Fuse rating	A	600
	Oten dend foult	Fuse class		J
	Standard fault	Ob ant almost to summer t	1. 4	4.0
		Short circuit current	kA	18
		Fuse rating	А	600 DK5
Ambient conditions		Fuse class		RK5
Ambient conditions				
Temperature				
	Operating temperature		• ~	40
		min	°C	-40
	Otomo no tomo orotuni	max	°C	70
	Storage temperature		° <b>0</b>	50
		min	°C	-50
NA		max	°C	80
Max altitude			m	3000
Resistance & Protection	on			<u>^</u>
Pollution degree				3
Dimensions				



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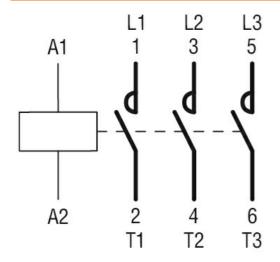
125 (4.92")-



Wiring diagrams

45 (1.77")

(0.78")



010

45 (1.77")

## 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		
		EC000066 -

## **ETIM 8.0**

EC000066 -Power contactor, AC switching