ENERGY AND AUTOMATION

BF40000E110 THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 400A, AC/DC COIL, 60... 130VAC/DC



Product designation Product type designation			Power contactor BF400
Contact characteristics			
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	А	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	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	А	350

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



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	75V	А	400
	110V	А	400
	220V	А	400
	330V	А	350
EC max current le in DC1 with L/R \leq 1ms with 4 poles in series			
	75V	А	400
	110V	A	400
	220V	A	400
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series			
	75V	А	350
	110V	A	200
IEC max current le in DC3-DC5 with L/R \leq 15ms with 2 poles in series	1100		200
	75V	А	350
	110V	A	350
	220V	A	280
EC may surrent to in DC2 DCE with $1/D < 15$ may with 2 nation in carios	2200	A	200
EC max current le in DC3-DC5 with $L/R \le 15$ ms with 3 poles in series	75/	^	050
	75V	A	350
	110V	A	350
	220V	A	350
	330V	A	280
EC max current le in DC3-DC5 with $L/R \le 15$ ms with 4 poles in series		-	
	75V	A	350
	110V	А	350
	220V	А	350
	330V	А	350
	460V	Α	280
Short-time allowable current for 10s (IEC/EN60947-1)		Α	3200
Protection fuse			
	gG (IEC)	Α	800
	aM (IEC)	А	500
Making capacity (RMS value)		А	4000
Breaking capacity at voltage			
	440V	А	3200
	500V	А	2752
	690V	А	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	Ibin	310
	max	Ibin	310
Tightening torque for coil terminal	Παλ		010
	min	Nm	0.8
	min	Nm	0.8 1
Power terminal protection according to IEC/EN COEQO	max	INIII	
Power terminal protection according to IEC/EN 60529			IP00
Mechanical features			
Operating position			
	normal		Vertical plan
Fixing	allowable		±30° Screw

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Operations Mechanical life			cycles	5000000
Electrical life			cycles	600000
Safety related data				
Performance level B10	d according to EN/ISO 13489-1			
		rated load	cycles	1000000
EMC compatibility				yes
AC coil operating				
Rated AC voltage at 50)/60Hz, 60Hz			
		min	V	60
		max	V	130
AC operating voltage				
	of 50/60Hz coil powered at 50Hz			
	pick-up		0/11	0011
		min	%Us	80 Us min
		max	%Us	110 Us max
	drop-out		0/11-	<70 Lla min
	of 50/60Hz coil powered at 60Hz	max	%Us	≤70 Us min
	of 50/60Hz coil powered at 60Hz			
	pick-up	min	%Us	80 Us min
		max	%Us %Us	110 Us max
	drop-out	IIIdX	/005	110 05 11103
		max	%Us	≤70 Us min
AC average coil consu	motion at 20°C	Пах	/000	=70 00 1111
to average con consu	of 50/60Hz coil powered at 50Hz			
		in-rush	VA	160320
		holding	VA	3.58.0
	of 50/60Hz coil powered at 60Hz	nording	v/ (0.00.0
		in-rush	VA	160320
		holding	VA	3.58.0
	of 60Hz coil powered at 60Hz	0		
		in-rush	VA	160320
		holding	VA	3.58.0
Dissipation at holding ≤	20°C 50Hz	0	W	3.58.0
DC coil operating				
DC rated control voltag	le			
C C		min	V	60
		max	V	130
DC operating voltage				
-	pick-up			
		min	%Us	85 Us min
		max	%Us	110 Us max
	drop-out			
		max	%Us	≤70 Us min
Average coil consumpt	ion ≤20°C			
		in-rush	W	160230
		holding	W	3.58.0
Max cycles frequency				
Mechanical operation			cycles/h	1000
Operating times				

in AC

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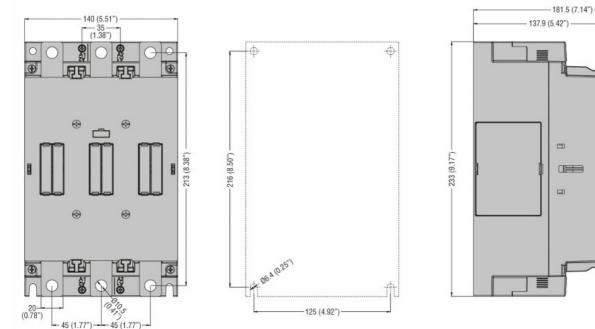
	Closing NO			
	-	min	ms	80
		max	ms	120
	Opening NO			
		min	ms	30
		max	ms	75
UL technical data				
Yielded mechanical performance				
for three-phase AC m	notor			
		200/208V	HP	125
		220/230V	HP	150
		460/480V	HP	350
		575/600V	HP	400
General USE				
Contactor				
		AC current	А	600
Short-circuit protection fuse, 600V				
High fault				
-		Short circuit current	kA	100
		Fuse rating	А	600
		Fuse class		J
Standard fault				
		Short circuit current	kA	18
		Fuse rating	А	600
		Fuse class		RK5
Ambient conditions				
Temperature				
Operating temperatur	e			
		min	°C	-40
		max	°C	70
Storage temperature				
<u> </u>		min	°C	-50
		max	°C	80
Max altitude			m	3000
Resistance & Protection				
Pollution degree				3
Dimensions				

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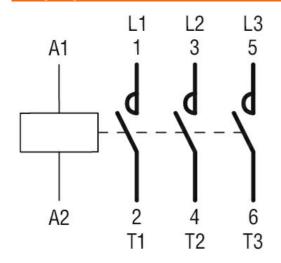


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- 101 E /7 1 /^m



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 EC000066 -

ETIM 8.0

EC000066 -Power contactor, AC switching

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168 (6.61") 233 (9.17")

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