ENERGY AND AUTOMATION



Product designation			Power contactor
Product type designation			BF330
Contact characteristics			2.000
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		Α	500
Operational current le			
	AC-1 (≤40°C)	А	500
	AC-1 (≤55°C)	А	415
	AC-1 (≤70°C)	А	360
	AC-3 (≤440V ≤55°C)	А	330
	AC-4 (400V)	А	160
Rated operational power AC-3 (T≤55°C)			
	230V	kW	90
	400V	kW	160
	415V	kW	160
	440V	kW	160
	500V	kW	200
	690V	kW	250
	1000V	kW	185
Rated operational current AC-3 (T≤55°C)			
	230V	А	330
	400V	А	330
	415V	А	330
	440V	А	330
	500V	А	300
	690V	А	300
	1000V	А	140
Rated operational power AC-1 (T≤40°C)			
	230V	kW	189
	400V	kW	329
	500V	kW	362
	690V	kW	568
IEC max current le in DC1 with $L/R \le 1$ ms with 1 poles in series			
	75V	А	375
	110V	А	195
IEC max current le in DC1 with $L/R \le 1$ ms with 2 poles in series			
	75V	А	375
	110V	А	350
	220V	А	300

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



THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 330A, AC/DC COIL, 60...

130VAC/DC

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	75V	А	375
	110V	А	350
	220V	А	350
	330V	А	300
EC max current le in DC1 with L/R ≤ 1ms with 4 poles in series			
	75V	А	375
	110V	A	350
	220V	A	350
EC max current le in DC3-DC5 with L/R \leq 15ms with 1 poles in series	220 V	Λ	550
EC max current le in DC3-DC3 with E/K = 15ms with 1 poles in series	75V	А	310
	110V		170
$I_{\rm C}$ may summat be in DC2 DC5 with $1/D < 45$ may with 2 males in series	1100	A	170
EC max current le in DC3-DC5 with L/R \leq 15ms with 2 poles in series	75)/	^	24.0
	75V	A	310
	110V	A	290
	220V	A	230
EC max current le in DC3-DC5 with L/R \leq 15ms with 3 poles in series			
	75V	A	310
	110V	А	310
	220V	А	290
	330V	Α	230
EC max current le in DC3-DC5 with $L/R \le 15$ ms with 4 poles in series			
	75V	А	310
	110V	Α	310
	220V	А	310
	330V	А	310
	460V	А	230
Short-time allowable current for 10s (IEC/EN60947-1)		Α	2640
Protection fuse			
	gG (IEC)	А	630
	aM (IEC)	А	500
Making capacity (RMS value)	(A	3300
Breaking capacity at voltage			
	440V	А	2640
	500V	A	2240
	690V	A	2000
Resistance per pole (average value)	0001	mΩ	0.12
Power dissipation per pole (average value)		11152	0.12
ower dissipation per pole (average value)	lth	W	30
	AC-3	W	
Fightoning torque for terminale	AC-3	VV	13
Fightening torque for terminals		N I.a.:	25
	min	Nm	35
	max	Nm	35
	min	lbin	310
	max	Ibin	310
Tightening 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°
	anomabio		

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BF33000E110 THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 330A, AC/DC COIL, 60...

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130VAC/DC

lechanical life		cycles	5000000
Electrical life		cycles	700000
Safety related data		,	· •
Performance level B10d according to EN/ISO 13489-1			
	rated load	cycles	1000000
MC compatibility		- ,	yes
AC coil operating			,
Rated AC voltage at 50/60Hz, 60Hz			
	min	V	60
	max	v	130
AC operating voltage	пах	v	100
of 50/60Hz coil powered at 50Hz			
pick-up			
ρισκ-αρ	min	%Us	80 Us min
	max	%Us	110 Us max
drop_out	Παλ	/005	110 05 1110
drop-out	mov	0/1 lo	≤70 Us min
	max	%Us	
of 50/60Hz coil powered at 60Hz			
pick-up	*	0/11-	90 L la vastra
	min	%Us	80 Us min
	max	%Us	110 Us max
drop-out		0/11	-70.11
	max	%Us	≤70 Us min
AC average coil consumption at 20°C			
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			
	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 voltage			
	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
verage coil consumption ≤20°C			
	in-rush	W	160230
	holding	W	3.58.0
lax cycles frequency			-
Achanical operation		cycles/h	1000
Dperating times		·	

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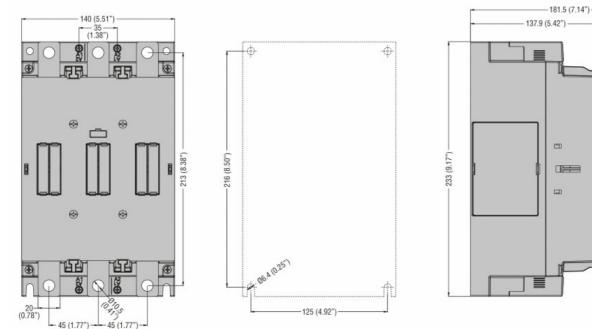
THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 330A, AC/DC COIL, 60...

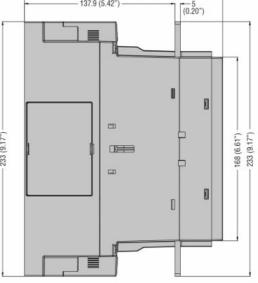
130VAC/DC

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 motor			
	200/208V	HP	100
	220/230V	HP	125
	460/480V	HP	250
	575/600V	HP	300
General USE			
Contactor			
	AC current	А	500
Short-circuit protection fuse, 600V			
High fault			
Ĵ	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 temperature			
	min	°C	-40
	max	°C	70
Storage temperature			
•	min	°C	-50
	max	°C	80
Max altitude		m	3000
Resistance & Protection			
Pollution degree			3
Dimensions			

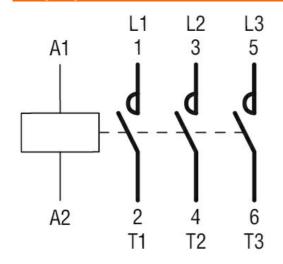


BF33000E110 THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 330A, AC/DC COIL, 60... 130VAC/DC





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

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