BF33000E400



THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 330A, AC/DC COIL, 250... 500VAC/DC



Product designation Product type designation			Power contacto BF330
Contact characteristics			51.000
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		А	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	A	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 ≤ 1ms with 1 poles in series			
	75V	А	375
	110V	A	195
IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series			
	75V	А	375
	110V	A	350
	220V	A	300
IEC may current le in DC1 with $1/P < 1$ ms with 3 poles in series	2201	~	000

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

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500VAC/DC

	75V	А	375
	110V	А	350
	220V	А	350
	330V	А	300
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series			
	75V	А	375
	110V	А	350
	220V	А	350
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series			
	75V	А	310
	110V	A	170
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series			
	75V	А	310
	110V	A	290
	220V	A	230
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series	220 V	Λ	200
	75V	А	310
	110V	A	310
	220V	A	290
	330V	A	230
IEC max current le in DC3-DC5 with $L/R \le 15$ ms with 4 poles in series	75) (•	040
	75V	A	310
	110V	A	310
	220V	A	310
	330V	A	310
	460V	A	230
Short-time allowable current for 10s (IEC/EN60947-1)		A	2640
Protection fuse			
	gG (IEC)	A	630
	aM (IEC)	A	500
Making capacity (RMS value)		A	3300
Breaking capacity at voltage			
	440V	А	2640
	500V	А	2240
	690V	Α	2000
Resistance per pole (average value)		mΩ	0.12
Power dissipation per pole (average value)			
	lth	W	30
	AC-3	W	13
Tightening torque for terminals			
	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	max		IP00
Mechanical features			
Operating position			
	normal		Vortical plan
	normal allowable		Vertical plan ±30°
Eiving	allowable		
Fixing			Screw

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Mechanical life			cycles	5000000
Electrical life			cycles	700000
Safety related data			ý	
	0d according to EN/ISO 13489-1			
		rated load	cycles	1000000
EMC compatibility				yes
C coil operating				•
Rated AC voltage at 5	0/60Hz, 60Hz			
-		min	V	250
		max	V	500
C 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	umption 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 volta	ge			
		min	V	250
		max	V	500
DC operating voltage				
	pick-up			
		min	%Us	85 Us min
		max	%Us	110 Us max
	drop-out			
		max	%Us	≤70 Us min
Average coil consump	otion ≤20°C			
-		in-rush	W	160230
		holding	W	3.58.0
Max cycles frequency				
Mechanical operation			cycles/h	1000
Operating times				
Average time for Us c	ontrol			
	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 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			
	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			

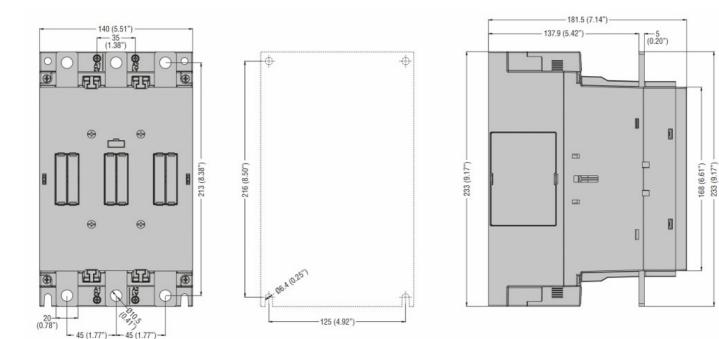
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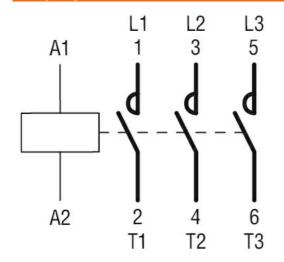
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500VAC/DC



Wiring diagrams

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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

Power contactor, AC switching