

### THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 330A, AC/DC COIL, 100...250VAC/DC



Product designation Product type designation			Power contactor BF330
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		Α	500
Operational current le			
	AC-1 (≤40°C)	Α	500
	AC-1 (≤55°C)	Α	415
	AC-1 (≤70°C)	Α	360
	AC-3 (≤440V ≤55°C)	Α	330
	AC-4 (400V)	Α	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	Α	330
	400V	Α	330
	415V	Α	330
	440V	Α	330
	500V	Α	300
	690V	Α	300
	1000V	Α	140
Rated operational power AC-1 (T≤40°C)			
	230V	kW	189
	400V	kW	329
	500V	kW	362
150 H : B04 W 1/B : 4 W 4 H : :	690V	kW	568
IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series	75)/	•	075
	75V	A	375
IFO many assembly in DOA with L/D 4.4	110V	A	195
IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series	<b></b> :		0.7.5
	75V	A	375
	110V	A	350
IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series	220V	A	300

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



BF33000E230

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	75V	Α	375
	110V	Α	350
	220V	Α	350
	330V	Α	300
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series			
'	75V	Α	375
	110V	Α	350
	220V	Α	350
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series			
120 max carrons to in 200 200 mar 273 = 10me mar 1 poise in conice	75V	Α	310
	110V	A	170
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series	1101		170
120 max current le in 200-200 with E/K = 10m3 with 2 poles in series	75V	Α	310
	110V	A	290
	220V		230
IFC may current to in DC2 DC5 with L/D < 15mg with 2 notes in cories	220 V	Α	230
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series	75\/	۸	040
	75V	A	310
	110V	A	310
	220V	A	290
	330V	Α	230
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series			
	75V	Α	310
	110V	Α	310
	220V	Α	310
	330V	Α	310
	460V	Α	230
Short-time allowable current for 10s (IEC/EN60947-1)		Α	2640
Protection fuse			
	gG (IEC)	Α	630
	aM (IEC)	Α	500
Making capacity (RMS value)		Α	3300
Breaking capacity at voltage			
	440V	Α	2640
	500V	Α	2240
	690V	Α	2000
Resistance per pole (average value)		mΩ	0.12
Power dissipation per pole (average value)			
, , , , , , , , , , , , , , , , , , , ,	Ith	W	30
	AC-3	W	13
Tightening torque for terminals			
2 ··· 0.0 ··· 1.0 ···	min	Nm	35
	max	Nm	35
	min	lbin	310
	max	lbin	310
Tightening torque for coil terminal	Παλ	10111	310
rightoning torque for contentinal	min	Nim	0.0
	min	Nm Nm	0.8 1
Dower terminal protection consuling to IFO/FN 00500	max	Nm	
Power terminal protection according to IEC/EN 60529			IP00
Mechanical features			
Operating position			M. C. L.
	normal		Vertical plan
<del></del>	allowable		±30°
Fixing			Screw



## THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 330A, AC/DC COIL, 100...250VAC/DC

Operations			
Mechanical life		cycles	5000000
Electrical life		cycles	700000
Safety related data		0,0.00	
Performance level B10d according to EN/ISO 13489-1			
ŭ	rated load	cycles	1000000
EMC compatibility			yes
AC coil operating			,
Rated AC voltage at 50/60Hz, 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 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	100
	max	V	250
DC operating voltage			
pick-up		_	
	min	%Us	85 Us min
	max	%Us	110 Us max
drop-out			
	max	%Us	≤70 Us min
Average coil consumption ≤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 control			

in AC



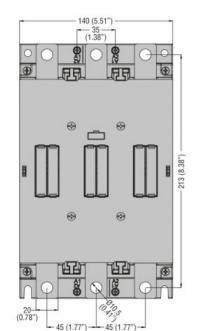


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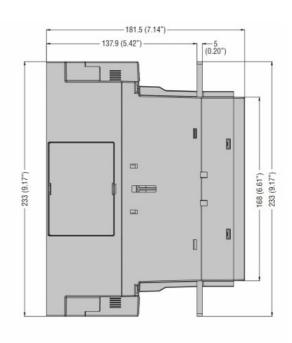
	Closing NO				
	_	min	ms	80	
		max	ms	120	
	Opening NO				
		min	ms	30	
		max	ms	75	
UL technical data					
Yielded mechanical performance					
	for three-phase AC motor				
		200/208V	HP	100	
		220/230V	HP	125	
		460/480V	HP	250	
		575/600V	HP	300	
General USE					
	Contactor				
		AC current	Α	500	
Short-circuit protection	fuse, 600V				
	High fault				
		Short circuit current	kA	100	
		Fuse rating	Α	600	
		Fuse class		J	
	Standard fault				
		Short circuit current	kA	18	
		Fuse rating	Α	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					

**ENERGY AND AUTOMATION** 

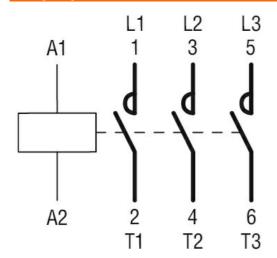
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#### Wiring diagrams



### 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