



Product designation Product type designation			Power contactor BF330
Contact characteristics			
Number of poles		Nr.	4
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)	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	А	330
	400V	А	330
	415V	А	330
	440V	А	330
	500V	А	300
	690V	А	300
	1000V	Α	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	Α	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	Α	300

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



BF330T4E024 CONTACTOR TETRAPOLAR, CORRIENTE DE OPERACIÓN IEC ITH (AC1) = 500A, BOBINA AC/DC, 24...60VAC - 20...60VDC

75V 375 А 110V А 350 220V А 350 330V 300 А IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series А 75V 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 А 170 IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series 75V А 310 110V А 290 220V 230 А IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series 75V А 310 110V А 310 220V А 290 330V Α 230 IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series 75V А 310 110V А 310 220V А 310 330V А 310 460V А 230 Short-time allowable current for 10s (IEC/EN60947-1) А 2640 Protection fuse gG (IEC) А 630 aM (IEC) 500 А Making capacity (RMS value) А 3300 Breaking capacity at voltage 440V А 2640 500V А 2240 690V А 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 Nm 35 max lbin 310 min Ibin max 310 Tightening torque for coil terminal 0.8 min Nm max Nm 1 Power terminal protection according to IEC/EN 60529 **IP00** Mechanical features Operating position normal Vertical plan ±30° allowable

Fixing

BF330T4E024

Screw



Operations

Electrical life

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Mechanical life 5000000 cycles 700000 cycles Safety related data Performance level B10d according to EN/ISO 13489-1 rated load 1000000 cvcles

		rated load	cycles	1000000
EMC compatibility				yes
AC coil operating				
Rated AC voltage at 50/60H	z, 60Hz			
Ũ		min	V	24
		max	V	60
AC operating voltage			-	
	0/60Hz coil powered at 50Hz			
0130	pick-up			
	ρισκ-αρ	min	0/110	
		min	%Us	80 Us min
		max	%Us	110 Us max
	drop-out			
		max	%Us	≤70 Us min
of 50	0/60Hz 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 consumptio	n at 20°C			
	0/60Hz coil powered at 50Hz			
	, <u></u>	in-rush	VA	160320
		holding	VA	3.58.0
of 50	0/60Hz coil powered at 60Hz	noiding	V/ (0.00.0
0150		in-rush	VA	160320
		holding	VA	3.58.0
of 60	0Hz 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	20
		max	V	60
DC operating voltage				
pick	-UD			
P.o.	~F	min	%Us	85 Us min
		max	%Us	110 Us max
dron	p-out	Παλ	/003	110 03 110
αιομ			0/11-	
A	2000	max	%Us	≤70 Us min
Average coil consumption ≤	2016			
		in-rush	W	160230
		holding	W	3.58.0

Mechanical operation **Operating times** Average time for Us control

Max cycles frequency

in AC

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cycles/h 1000

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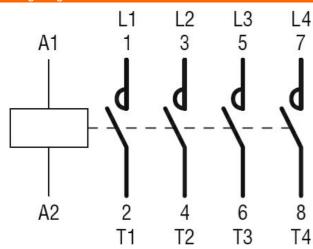
CONTACTOR TETRAPOLAR, CORRIENTE DE OPERACIÓN IEC ITH (AC1) = 500A, BOBINA AC/DC, 24...60VAC - 20...60VDC

Closing N	O min ms 80 max ms 120
Opening N	
UL technical data Yielded mechanical performance for three-phase AC motor	
	200/208VHP100220/230VHP125460/480VHP250575/600VHP300
General USE Contactor	AC current A 500
Short-circuit protection fuse, 600V High fault	Short circuit current kA 100 Fuse rating A 600 Fuse class J
Standard fault	Short circuit current kA 18 Fuse rating A 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 Resistance & Protection	m 3000
Pollution degree Dimensions	3



ENERGY AND AUTOMATION

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		Power contactor,

AC switching

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