



20BD248A3ANNAEC0

Allen-Bradley PowerFlex 700 AC Drive

Product scope

- Uses the exact Rockwell Automation catalog number 20BD248A3ANNAEC0.
- Provides a 480V AC, three-phase PowerFlex 700 configuration rated 248 A continuous.
- Carries 200 Hp normal-duty and 150 Hp heavy-duty ratings in a Frame 6 IP20 / Type 1 configuration.
- Includes EtherNet/IP communication, 24V DC vector-control I/O and a full numeric LCD HIM.

Manufacturer source

Rockwell Automation official product page for 20BD248A3ANNAEC0

The enclosed product-record pages reproduce the exact Rockwell Automation identity, ratings, options, environmental limits and lifecycle data for 20BD248A3ANNAEC0.

Request a fast quote	Product reference	
Email: info@apterpower.com Phone: +86 18106909650 apter.com/inquiry.php	20BD248A3ANNAEC0	

The enclosed manufacturer pages are reproduced without alteration to technical content. External interactive links and unrelated pages are excluded from this web-optimized copy.

20BD248A3ANNAEC0

Allen-Bradley PowerFlex 700 AC Drive 20B - Exact product configuration

The model and all values below are taken from the Rockwell Automation official product page for the exact unique product identifier 20BD248A3ANNAEC0. No adjacent catalog suffix is used.

Unique product identifier	20BD248A3ANNAEC0
Product family	PowerFlex 700 AC Drive 20B
Input voltage	480V AC, 3-phase, 60 Hz
Output rating	248 A continuous at 480V AC, 3-phase, normal duty
Power and duty	200 Hp normal duty; 150 Hp heavy duty; Frame 6
Enclosure	IP20 / NEMA/UL Type 1
Control option	Vector control with 24V DC I/O
Human interface	LCD display with full numeric keypad and programming keys
Internal communication	EtherNet/IP
Brake IGBT	Without brake IGBT
Brake resistor	No internal brake resistor
Feedback option	No feedback
EMC filtering	EMC filter with common mode choke
Custom drive/firmware	No custom firmware

Official source: <https://www.rockwellautomation.com/en-us/products/details.20BD248A3ANNAEC0.html>

20BD248A3ANNAEC0

Allen-Bradley PowerFlex 700 AC Drive 20B - Electrical and control data

Input current	233 A at 480V AC, 3-phase
Input power	194 kVA at 480V AC, 3-phase, normal duty
Output current - continuous	248 A at 480V AC, 3-phase, normal duty
Output current - 1 minute	273 A at 480V AC, 3-phase, normal duty
Output current - 3 seconds	372 A at 480V AC, 3-phase, normal duty
Output voltage range	0 to rated motor voltage
Motor voltage	460V at 380...480V drive rating; 480V nominal line voltage
Drive operating range	342...528V at 380...480V drive rating
Drive full power range	460...528V at 380...480V drive rating
Carrier frequency	2, 4, 8 and 10 kHz; drive rating based on 4 kHz
Maximum output frequency	420 Hz
Efficiency	97.5% at rated amperes and nominal line voltage
Circuit breaker rating - maximum	700 A at 480V AC, 3-phase, normal duty
Motor circuit protector - maximum	400 A at 480V AC, 3-phase, normal duty
Dual-element time-delay fuse	300...550 A at 480V AC, 3-phase, normal duty
Non-time-delay fuse	330...700 A at 480V AC, 3-phase, normal duty
Short-circuit capability	Actual rating is determined by the AIC rating of the installed fuse or circuit breaker
Maximum symmetrical short-circuit rating	200000 A symmetrical
Motor control	Sensorless vector with full tuning; standard V/Hz with full custom capability; vector control
Control method	Sine-coded PWM with programmable carrier frequency
Analog inputs / outputs	2 analogue inputs / 2 analogue outputs
Digital inputs / outputs	6 digital inputs / 3 digital outputs

Protection-device selection must follow the drive installation design and the installed protective-device interrupting rating.

20BD248A3ANNAEC0

Allen-Bradley PowerFlex 700 AC Drive 20B - Environment, protection and lifecycle

AC input undervoltage trip	280V AC at 480V
AC input overvoltage trip	570V AC at 480V
Nominal DC bus voltage	648V DC at 480V
Bus undervoltage shutoff/fault	305V DC at 480V
Bus overvoltage trip	810V DC at 480V
Motor overload protection	Class 10 motor overload protection and motor overtemperature protection for Frames 0...6 vector control
Intermittent overload	110% for up to 1 minute; 150% for up to 3 seconds
Shock	15 G peak for 11 ms duration (+/-1.0 ms)
Vibration	0.152 mm (0.006 in) displacement, 1 G peak
Altitude	1000 m (3300 ft) maximum without derating
Ambient temperature	0...50 deg C for IP20, NEMA/UL Type 1, Frames 5...6, most ratings
Storage temperature	-40 deg C
Relative humidity	5...95%, noncondensing
Lifecycle status	Discontinued
Discontinued date	June 01, 2023
Replacement category	Functional Replacement

Official Rockwell Automation documents listed for this product

Installation Instructions	20B-IN014
Technical Data	20B-TD001
User Manual	20B-UM002

Before installation or replacement, verify the complete catalog number, series, firmware, enclosure, I/O voltage, communication option, motor data and protective-device coordination.



GLOBAL INDUSTRIAL AUTOMATION SOURCING

Ready to source this part?

Ask for availability, pricing and delivery options.

Request a fast quote

Include the product title and any required part number or quantity.

EMAIL

info@apterpower.com

PHONE

+86 18106909650

REQUEST A QUOTE

PRODUCT: 20BD248A3ANNAEC0



SCAN TO CHAT ON WHATSAPP

Manufacturer pages are reproduced without alteration to technical content.

Apter Power is not an authorized distributor, reseller or representative of the products featured.