



## AC20 Variable Speed Drive

Advanced AC Drive for Motor Control in  
General Purpose Applications

2 - 250 HP (1.5 - 180 kW)

Catalog HA540120



ENGINEERING YOUR SUCCESS.

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## Variable Speed Drive - AC20 Series

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## Parker Hannifin

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### Global Partnerships Global Support

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Rohnert Park, CA

# Variable Speed Drive - AC20 Series

## Overview

### Description

The AC20 Advanced Compact Drive is a highly featured yet economical solution to general purpose motor control applications. AC20 provides speed or torque control in the power range of 2 - 250HP. Its compact dimensions house many features normally only associated with system drives, including sensorless vector mode for control of Permanent Magnet (PMAC) and AC induction motors, encoder feedback and I/O expansion option cards, Safe Torque Off and an onboard Ethernet port that supports major industrial Ethernet protocols. AC20 provides the perfect solution for OEM machine builders looking for a compact, cost-effective drive without compromising on performance.

### Features

#### Simplicity

AC20 is designed to reduce the time and effort required to select, install, set up and commission. Two variants of option card are available, both user installable/retrofitable. Minimal wiring requirements with two easily accessed terminal rails and removable power cable brackets make AC20 fast and simple to install. All AC20s come with a high quantity of user configurable I/O and a user disconnectable C3 EMC filter as standard. Programming and commissioning is made simple through its easy to use integrated keypad and the DSELite programming tool.

#### Reliability

Proven technology and manufacturing techniques ensure AC20 has been engineered and built to deliver consistently outstanding levels of performance day in, day out - ensuring maximum uptime and productivity. With its standard conformally coated PCBs, AC20 is built to withstand C3 environments.

#### Compatibility

AC20 has been designed with system compatibility in mind. The compact footprint allows installation into existing spaces, while the I/O count has been chosen to allow maximum possible flexibility. The internal block diagram is fully featured to enable replacement of legacy Parker inverters, and the onboard Ethernet communications protocols aid integration into wider systems. Retrofittable, plug-in communications cards cover all popular protocols and are simple to configure.



### Technical Characteristics - Overview

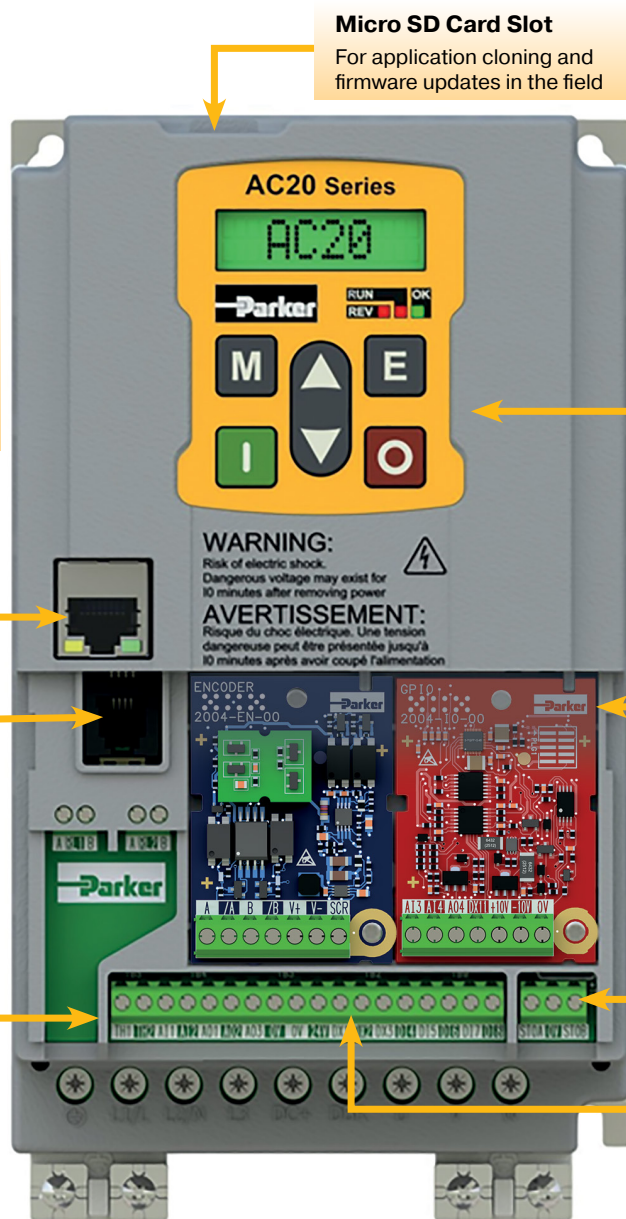
<b>Power Supply</b>	220-240 VAC ±10% Single Phase 220-240 VAC ±10% Three Phase 380-480 VAC ±10% Three Phase
<b>Input Frequency</b>	50/60 Hz ±10%
<b>Power Range</b>	2-250 HP (1.5 - 180 kW) HD
<b>Overload</b>	150% for 60 sec.
<b>Output Frequency</b>	0.5 - 590 Hz
<b>Safe Torque Off (STO)</b>	SIL2, PLd
<b>Operating Temperature</b>	0-40 °C (derate possible up to 45°C)*
<b>Altitude</b>	0-1000m (derate 1% per 100m up to 2000m max.)*

\* Without communications option installed

#### Extra power when it's needed!

- 150% overload for 60 seconds to provide extra starting torque for high inertia loads

## Features



### Micro SD Card Slot

For application cloning and firmware updates in the field

### Standard Ethernet Port

Ethernet/IP, Modbus TCP/IP, and ProfinetIO as standard. Access the drive webpage or program the drive through the popular and intuitive DSELite configuration tool

### Built-in Display Keypad

Operate the drive and see real time diagnostic feedback through the backlit built-in display

### User-Installable Option Cards

- Encoder feedback card
- General Purpose I/O card

Use either or both in any combination, up to two cards per drive.

### RJ11 Port for Remote Keypad

Connect an optional remote 6901 keypad to this standard port

### Built-in Safe Torque Off

Independently certified STO to SIL2, PLd as standard. Complies with:

- EN ISO13849-1:2015
- EN 61800-5-2:2017
- EN 61508

### Dedicated Motor Thermistor Input

PTC Motor Thermistor feedback connection as standard

### User I/O

Extensive analog and digital I/O for maximum application flexibility

### Power Cable Shielding Bracket (not shown)

- Frames 2-5 include a cable shielding and support bracket as standard

### Standards & Compliance

The product is certified to the latest international standards:

- Europe:
- Low Voltage Directive 2014/30/EC
  - Electro-Magnetic Compatibility Directive 2006/42/EC
  - EN61800-5-1:2007 + A11;2021
  - EN61800-3:2018
  - IE 2 Compliant

- North America & Canada:
- UL 61800-5-1
  - CSA22.2 #274.17

## Applications

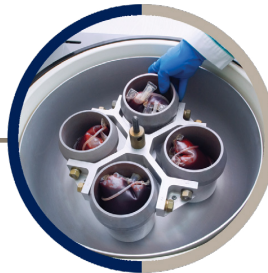
AC20 provides a straight-forward approach to general purpose industrial motor control applications across a wide range of industries, giving users the benefits of the inherent energy-saving properties of using a variable speed drive, as well as the improved reliability and extended service life benefits associated with smoother starting and stopping of regularly cycling loads.

### Typical applications for AC20 include...

- Conveyor
- Centrifuge
- Fans
- Mixers
- Packaging Machines
- Textile Machines
- Strapping Machines
- Labelling Machines
- Industrial Washing Machines
- Machine Tool Spindles
- Roller Doors



**Conveyors**



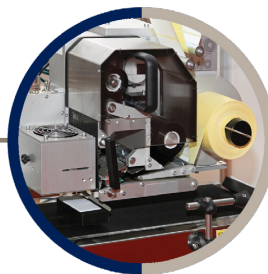
**Centrifuges**



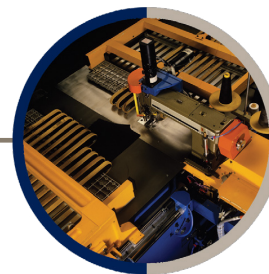
**Fans**



**Mixers**



**Packaging Machines**



**Textile Machines**

## Technical Characteristics

### Power Ratings

230 VAC, Single Phase Supply Voltage				
HD Power Rating [HP]*	Order Code	Input Current [A]	Output Current [A]	Frame Size
2	20G-12-0070-BF	14	7	2
3	20G-12-0100-BF	18	10	

230 VAC, Three Phase Supply Voltage				
HD Power Rating [HP]*	Order Code	Input Current [A]	Output Current [A]	Frame Size
2	20G-32-0070-BF	6.8	7	2
3	20G-32-0100-BF	10	10	
5	20G-33-0170-BF	17	17	3
7.5	20G-34-0210-BF	22	21	4
10	20G-35-0300-BF	28	30	5
15	20G-35-0400-BF	39	40	

460 VAC, Three Phase Supply Voltage				
HD Power Rating [HP]*	Order Code	Input Current [A]	Output Current [A]	Frame Size
2	20G-42-0040-BF	3.8	3.5	2
3	20G-42-0065-BF	5.2	5.7	
5	20G-42-0090-BF	8	7.8	
7.5	20G-43-0120-BF	11	10	3
10	20G-43-0170-BF	13.3	15	
15	20G-44-0230-BF	19	20	4
20	20G-44-0320-BF	24.6	28	
25	20G-45-0380-BF	30	33	5
30	20G-45-0440-BF	35	38	
40	20G-45-0600-BF	46	52	
50	20G-46-0750-BF	58	65	6
60	20G-46-0900-BF	69	78	
75	20G-47-1100-BF	87	96	7
100	20G-47-1500-BF	115	130	
125	20G-48-1800-BF	144	157	8
150	20G-48-2200-BF	173	191	
200	20G-48-2650-BF	231	230	
250	20G-410-3600-BF	288	313	

\*HD = Heavy Duty. Provides 150% overload current for 60 seconds.

## Technical Characteristics

### Electrical Characteristics

<b>Power Supply</b>	220 - 240 VAC ±10 % Single Phase 220 - 240 VAC ±10 % Three Phase 380 - 480 VAC ±10 % Three Phase
<b>Input Frequency</b>	50/60 Hz ±10 %
<b>Overload</b>	150% for 60 sec.
<b>Output Frequency</b>	0.5 - 590 Hz
<b>Max. Switching Frequency</b>	10 kHz
<b>Control Modes</b>	Volts/Hertz, Sensorless Vector (SV) or Closed-Loop Vector Mode (Induction only)
<b>Supported Motors</b>	Induction & PMAC

### Environmental Characteristics

<b>Temperature range</b>	0-40 °C (derate possible up to 45 °C)*
<b>Humidity</b>	Up to 90 % Relative Humidity, non-condensing
<b>Vibration</b>	< 0.5 g
<b>Altitude</b>	0-1000 m (derate 1% per 100m up to max. 2000m)
<b>Protection Degree</b>	IP20
<b>Pollution Degree</b>	Category 2
<b>Chemically Active Substances</b>	Compliance with EN60271-3-3: C3

\* De-rating only possible without communications option fitted

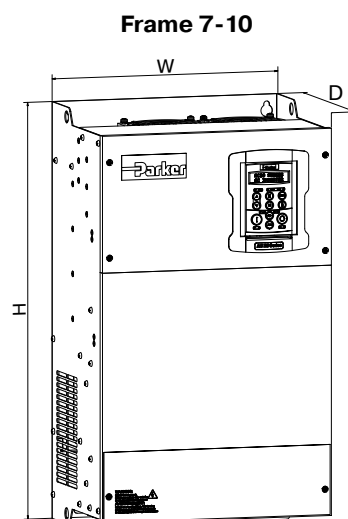
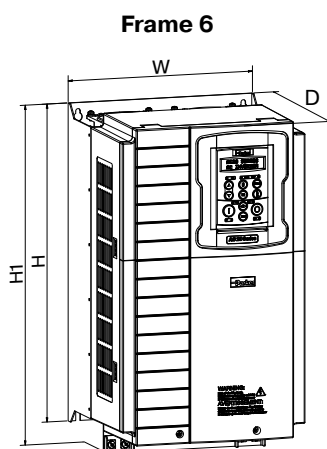
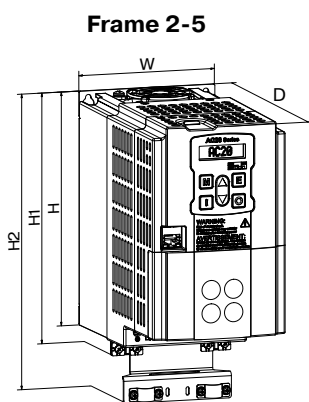
### Standards and Compliance

<b>Europe</b>	This product conforms with: - Low Voltage Directive 2014/30/EU - Electro-Magnetic Compatibility Directive 2006/42/EC - EN61800-5-1:2007+A11:2021 - EN61800-3:2018
<b>North America / Canada</b>	Certified to the following standards: - UL61800-5-1 - CSA22.2#274-17 as an open-type drive
<b>STO</b>	Independently certified to: - EN ISO 13849-1:2015 - EN 61800-5-2:2017 - EN 61508
<b>RoHS</b>	This product complies with the RoHS substance restrictions in accordance with EC Directive 2011/65/EU
<b>REACH</b>	This product complies with the REACH regulations EC1907/2006

Variable Speed Drive - AC20  
Dimensions

**Dimensions**

Frame	Height (H) [in/mm]	Height (H1) [in/mm]	Height (H2) [in/mm]	Width (W) [in/mm]	Depth (D) [in/mm]	Weight [lb/kg]
2	7.09/180.0	7.60/193.0	8.96/227.5	4.27/108.4	7.28/185.0	4.4/2.0
3	9.35/237.5	9.76/248.0	11.10/281.9	5.57/141.6	7.24/184.0	7.3/3.3
4	10.43/265.0	11.14/283.0	12.65/321.4	6.34/161.0	7.72/196.0	9.7/4.4
5	13.39/340.0	14.09/358.0	15.80/401.4	8.27/210.0	8.67/220.2	17.7/8.0
6	17.13/435.0	18.31/465.0	n/a	10.32/262.0	9.47/240.5	30.9/14.0
7	24.80/630.0	24.55/623.5	n/a	13.98/355.0	10.43/265.0	92.6/42.0
8	30.12/765.0	29.72/755.0	n/a	15.98/406.0	11.81/300.0	124.6/56.5
9	30.12/765.0	30.63/778.0	n/a	20.08/510.0	12.83/326.0	191.8/87.0
10	35.83/910.0	36.42/925.0	n/a	21.65/550.0	13.44/341.5	271.2/123.0



## Power Connections

### Frame 2-4

Terminal	Description
PE	Earth/Ground
L1 / L	Supply Input phase L1 / Live
L2 / N	Supply Input phase L2 / Neutral
L3	Supply Input phase L3
DC+	DC+ Dynamic Brake Resistor connection (+)
DBR	Dynamic Brake Resistor connection (-)
U	Motor Output phase U
V	Motor Output phase V
W	Motor Output phase W

### Frame 5-6

Terminal	Description
PE	Earth/Ground
L1	Supply Input phase L1
L2	Supply Input phase L2
L3	Supply Input phase L3
DC+	DC+ Dynamic Brake Resistor connection (+)
DC-	DC-
DBR	Dynamic Brake Resistor connection (-)
U	Motor Output phase U
V	Motor Output phase V
W	Motor Output phase W

### Frame 7-10

Terminal	Description
PE	Earth/Ground
DC+	DC+ Dynamic Brake Resistor connection (+)
DC-	DC-
DBR	Dynamic Brake Resistor connection (-)
L1	Supply Input phase L1
L2	Supply Input phase L2
L3	Supply Input phase L3
U	Motor Output phase U
V	Motor Output phase V
W	Motor Output phase W



Variable Speed Drive - AC20  
Control Connections

### Control Connections

Label	Description
RLY1A	Relay Output 1 (Contact A)
RLY1B	Relay Output 1 (Contact B)
RLY2A	Relay Output 2 (Contact A)
RLY2B	Relay Output 2 (Contact B)
TH1	Motor Thermistor Input
TH2	Motor Thermistor Input
AIN1	Analog Input 1 ( $\pm 10V$ , 0-10V, 0-20mA, 4-20mA)
AIN2	Analog Input 2 ( $\pm 10V$ , 0-10V, 0-20mA, 4-20mA)
AOUT1	Analog Output 1 (0-10V, 0-20mA)
AOUT2	Analog Output 2 (0-10V, 0-20mA)
AOUT3	Analog Output 3 ( $\pm 10V$ , 0-10V)
0V	0V Reference for analog & digital I/O
0V	0V Reference for analog & digital I/O
24V	24V user supply
DIO1	Digital Input / Output 1 (24V configurable)
DIO2	Digital Input / Output 2 (24V configurable)
DIN3	Digital Input / Output 3 (24V configurable)
DIN4	Digital Input 4
DIN5	Digital Input 5
DIN6	Digital Input 6
DIN7	Digital Input 7
DIN8	Digital Input 8
DIN9	Digital Input 9*
DIN10	Digital Input 10*
STO1	STO input channel A
STO0V	STO 0V reference
STO2	STO input channel B

\* = Frames 6-10 only



## Software

### Parker Drive System Explorer (DSE Lite)

Parker drive configuration software Drive System Explorer (DSE) Lite is an easy to use drive configuration software package, designed to make programming your application as simple as possible without compromising on functionality.

DSE Lite is based around a straightforward block programming and an intuitive user interface which supports user-defined configurations and offers real-time monitoring and charting. DSE Lite allows the user to create, parameterize and configure user defined applications as well as parameterize and connect fixed Motor Control blocks with 70 user functions and up to 200 'links'

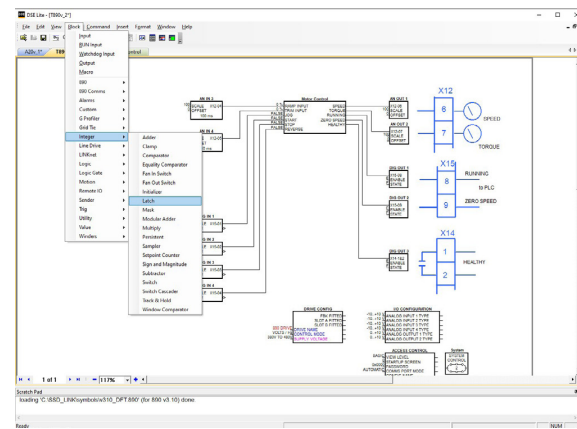
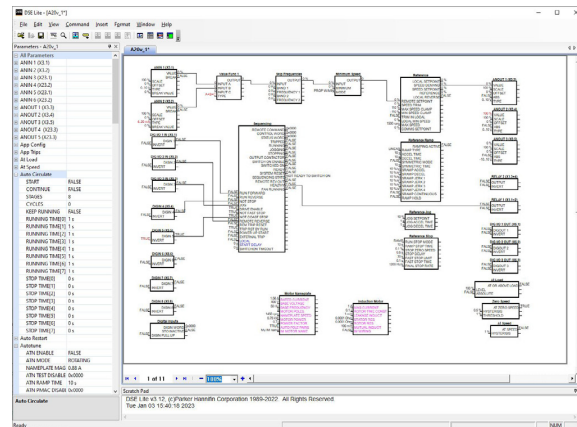
Thanks to the on-line help and pre-configured macro templates, users can achieve the optimum drive configuration without the need to navigate through complicated parameter menus.

**DSE Lite for AC20 uses a standard Ethernet connection between PC and inverter, so no special cable is required.**

**DSE Lite is available free of charge to download here: [discover.parker.com/DSELite\\_software](http://discover.parker.com/DSELite_software)**

Features new to the AC20 include:

- Ethernet connectivity
- Network scan feature
- Drive LED identification
- Firmware installs over Ethernet
- Ability to save a project to on-board Flash memory
- Power 'on the bench' for programming



## Accessories and Options

### 6901 Remote Mounting Keypad

The popular 6901 remote mounting keypad can be mounted away from the drive, such as on the door of an electrical enclosure. This interface allows users to configure, operate and monitor the drive without having to access the drive directly.

The remote keypad provides an alternative to the drive mounted keypad, offering a clear English language display and greater functionality. The remote mounting kit provides a mounting bezel and a 1.5 m cable that is plugged into the RJ11 port on the drive.



Order Code	Description
6901-00-G	6901 DisplayKeypad
6052-00-G	6901 remote mounting kit

### Option Slots

The AC20 features three option slots. All options are user installable and are ordered separately. Two option slots will accept either a speed feedback option or general-purpose IO expansion module, with a third option slot dedicated to communications option modules.



## Accessories and Options

### General Purpose I/O (GPIO) Option Card

**Description:**

The general purpose I/O (GPIO) option module offers users the opportunity to expand the drive's standard I/O capability, allowing more complex motor control solutions to be implemented. The option can be installed in either slot 1 or 2, and two options can be fitted at the same time to maximize the I/O count. For example, two I/O options will give an additional 4 analog inputs

<b>2004-IO-00</b>	<b>GPIO Option</b>
<b>Analog inputs</b>	2x Analog inputs ( $\pm 10V$ , 0-10V)
<b>Analog output</b>	1x Analog outputs ( $\pm 10V$ , 0-10V)
<b>Digital I/O</b>	Digital Input/Output 1 (24V configurable)
<b>Reference voltages</b>	+/- 10V References



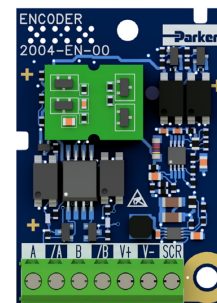
Terminal	Label		Description
	Slot 1	Slot 2	
<b>AI3</b>	AIN3	AIN5	Analog input 3/5 ( $\pm 10V$ , 0-10V)
<b>AI4</b>	AIN4	AIN6	Analog input 4/6 ( $\pm 10V$ , 0-10V)
<b>AO4</b>	AOUT4	AOUT5	Analog output 4/5 ( $\pm 10V$ , 0-10V)
<b>DX11</b>	DIO11	DIO12	Digital I/O 11/12 (24V configurable)
<b>+10V</b>	+10V	+10V	+ 10V Reference voltage
<b>-10V</b>	-10V	-10V	- 10V Reference voltage
<b>0V</b>	0V	0V	0V Reference for analog & digital I/O

### Encoder Feedback Card

**Description:**

The HTTL pulse encoder feedback module allows an incremental encoder to be connected to the AC20, allowing users to take full advantage of closed-loop vector control. The option can be fitted in either slot 1 or 2, and two identical options can be fitted at the same time, allowing for simple speed following applications.

<b>2004-EN-00</b>	<b>Encoder Feedback Option</b>
<b>Maximum input frequency</b>	250 kHz per channel
<b>Input format</b>	Quadrature
<b>Output supply voltage</b>	5V, 12V, 15V, 20V



Terminal	Label		Description
	Encoder 1	Encoder 2	
<b>A</b>	A	A	Channel A input
<b>/A</b>	/A	/A	Channel /A input
<b>B</b>	B	B	Channel B input
<b>/B</b>	/B	/B	Channel /B input
<b>V+</b>	V+	V+	Encoder supply +
<b>V-</b>	V-	V-	Encoder supply -
<b>SCR</b>	SCR	SCR	Cable screen/shield

## Accessories and Options

### Communication Option Cards

The AC20 takes advantage of commonly available third-party communication modules, allowing communication over a range of popular protocols. Also included in the supported range are Ethernet IP and ProfiNet modules, for when two ports are required. Adding an Ethernet based option card is possible in addition to the onboard Modbus TCP/IP, ProfiNet or Ethernet IP port.

<b>2003-CB-00</b>	<b>CANopen communication interface</b>
<b>Supported Protocols</b>	DS301 V4.02
<b>Communication Speed</b>	10 k, 20 k, 50 k, 125 k, 250 k, 500 k, 1 Mbits/s or automatically detected
<b>Max. number of devices</b>	127
<b>Supported Messages</b>	SDO, PDO, NMT, SYNC



<b>2003-EC-00</b>	<b>EtherCAT communication interface</b>
<b>Supported Protocols</b>	CANopen over EtherCAT (CoE) DS301 compliant
<b>Communication Speed</b>	100 Mbits/s
<b>Max. number of devices</b>	65534
<b>Supported Messages</b>	SDO, PDO, NMT, SYNC



<b>2003-IP-00</b>	<b>Ethernet IP communication interface</b>
<b>Supported Protocols</b>	Ethernet IP
<b>Communication Speed</b>	10/100 Mbits/s full/half duplex
<b>Max. number of devices</b>	Virtually unlimited
<b>Supported Messages</b>	Up to 256 bytes of consumed data and 256 bytes of produced data, CIP parameter object support, explicit messaging



<b>2003-PB-00</b>	<b>PROFIBUS DP-V1 communication interface</b>
<b>Supported Protocols</b>	PROFIBUS-DP; Demand data and Data exchange
<b>Communication Speed</b>	Up to 12 Mbits/s; automatically detected
<b>Max. number of devices</b>	32 per segment, 126 total
<b>Supported Messages</b>	Up to 152 bytes cyclic I/O, 68 bytes class 1 and 2 acyclic data, 152 bytes configuration data. GSD file provided



<b>2003-RS-00</b>	<b>RS485 / Modbus RTU communication interface</b>
<b>Supported Protocols</b>	Modbus RTU
<b>Communication Speed</b>	1200 to 115,200 bits/s
<b>Max. number of devices</b>	247
<b>Supported Messages</b>	Up to 256 bytes of cyclic I/O data in each direction



<b>2003-PN-00</b>	<b>PROFINET I/O communication interface</b>
<b>Supported Protocols</b>	PROFINET I/O generic device
<b>Communication Speed</b>	10/100 Mbits/s full/half duplex
<b>Max. number of devices</b>	Up to 128 submodules in total
<b>Supported Messages</b>	Up to 256 bytes of cyclic I/O in data in each direction



## Accessories and Options

### Line Protection

Line fuses and reactors offer drive protection from short circuits and supply transients. When used with the fuses mentioned here, a short circuit rating of 50,000 amps can be achieved.

230 V, Single Phase Supply Voltage				
AC20 [HP]*	Frame Size	Catalog Number	Line Fuses part number	Line Reactor part number
2	2	20G-12-0070-BF	CS470407U025	CO540100U019
3		20G-12-0100-BF	CS470407U025	CO540100U019

230 V, Three Phase Supply Voltage				
AC20 [HP]*	Frame Size	Catalog Number	Line Fuses part number	Line Reactor part number
2	2	20G-32-0070-BF	CS470407U010	CO540100U010
3		20G-32-0100-BF	CS470407U020	CO540100U012
5	3	20G-33-0170-BF	CS470407U025	CO540100U019
7.5	4	20G-34-0210-BF	CS470407U030	CO540100U025
10	5	20G-35-0300-BF	CS470408U050	CO540100U034
15		20G-35-0400-BF	CS470408U050	CO540100U048

460 V, Three Phase Supply Voltage				
AC20 [HP]*	Frame Size	Catalog Number	Line Fuses part number	Line Reactor part number
2	2	20G-42-0040-BF	CS470407U005	CO540101U004
3		20G-42-0065-BF	CS470407U010	CO540101U005
5		20G-42-0090-BF	CS470407U020	CO540101U008
7.5	3	20G-43-0120-BF	CS470407U020	CO540101U011
10		20G-43-0170-BF	CS470407U030	CO540101U014
15	4	20G-44-0230-BF	CS470407U030	CO540101U030
20		20G-44-0320-BF	CS470407U040	CO540101U030
25	5	20G-45-0380-BF	CS470408U050	CO540101U030
30		20G-45-0440-BF	CS470408U050	CO540101U045
40		20G-45-0600-BF	CS470408U080	CO540101U055
50	6	20G-46-0750-BF	CS470408U100	CO540101U065
60		20G-46-0900-BF	CS470408U125	CO540101U077
75	7	20G-47-1100-BF	CS350263	CO540101U110
100		20G-47-1500-BF	CS470408U200	CO540101U150
125	8	20G-48-1800-BF	CS470408U250	CO540101U150
150		20G-48-2200-BF	CS350265	CO540101U185
200		20G-48-2650-BF	CS470408U400	CO540101U240
250	10	20G-410-3600-BF	CS470408U450	CO540101U340

Line fuses are mandatory on all sizes

Line reactors are mandatory on frames 1-6 and recommended on frames 7-10

## Accessories and Options

### Braking Resistor

During deceleration, or with an over-hauling load, the motor acts as a generator. Energy flows back from the motor into the DC link capacitors within the drive, causing their voltage to rise. If this voltage exceeds a maximum value, the drive will trip to protect the capacitors and internal power devices. The amount of energy that can be absorbed by the capacitors can vary between different applications causing the drive to trip on overvolts. To increase the drive's dynamic braking capability, high power resistor(s), connected across the DC link, allow the dissipation of this excess energy for short term stoppage or braking.

#### 230 V, Single Phase Supply Voltage

AC20 [HP]*	Frame Size	Catalog Number	Braking Kit	Min ohms	Braking Kit ohms	Braking kit Watts
2	2	20G-12-0070-BF	LA471356	80	100	100
3		20G-12-0100-BF	LA471356	80	100	100

#### 230 V, Three Phase Supply Voltage

AC20 [HP]*	Frame Size	Catalog Number	Braking Kit	Min ohms	Braking Kit ohms	Braking kit Watts
2	2	20G-32-0070-BF	LA471356	80	100	100
3		20G-32-0100-BF	LA471356	80	100	100
5	3	20G-33-0170-BF	LA471359	30	56	500
7.5	4	20G-34-0210-BF	LA471359	30	56	500
10	5	20G-35-0300-BF	LA471362	15	25	756
15		20G-35-0400-BF	LA471362	15	25	756

#### 460 V, Three Phase Supply Voltage

AC20 [HP]*	Frame Size	Catalog Number	Braking Kit	Min ohms	Braking Kit ohms	Braking kit Watts
2	2	20G-42-0040-BF	LA471355	95	200	100
3		20G-42-0065-BF	LA471357	90	100	200
5		20G-42-0090-BF	LA471357	90	100	200
7.5	3	20G-43-0120-BF	LA471357	90	100	200
10		20G-43-0170-BF	LA471357	90	100	200
15	4	20G-44-0230-BF	LA471359	50	56	500
20		20G-44-0320-BF	LA471361	30	30	750
25	5	20G-45-0380-BF	LA471361	30	30	750
30		20G-45-0440-BF	LA471361	30	30	750
40		20G-45-0600-BF	LA471362	25	25	756
50	6	20G-46-0750-BF	LA471365	14	15	1135
60		20G-46-0900-BF	LA471365	14	15	1135
75	7	20G-47-1100-BF	LA471365	14	15	1135
100		20G-47-1500-BF	LA471367	11	8	1502
125	8	20G-48-1800-BF	LA471367	7	8	1502
150		20G-48-2200-BF	LA471367	7	8	1502
200		20G-48-2650-BF	LA471370	4	3	4563
250	10	20G-410-3600-BF	LA471370	3	3	4563

All braking kits include a thermal overload with auxiliary contact.

All braking kits are rated for occasional stopping duty, not more than 6 stops per hour.

For continuous power absorption or intermittent duty braking, consult factory.

### EMC Filter

The AC20 is supplied as standard with an EMC filter fitted that meets the requirements of a class C3 environment. For class C2 or C1 environments, an additional external filter may be required. An internal wire link may be easily removed to disconnect the Y capacitors for those installations where earth currents are undesirable.

Variable Speed Drive - AC20  
Order Code

## Order Code

### AC20

	1		2	3		4		5	6
Order example	<b>20G</b>	-	<b>1</b>	<b>2</b>	-	<b>0070</b>	-	<b>B</b>	<b>F</b>

<b>1</b>	<b>Device Family</b>	
	<b>20G</b>	AC20 Series, Advanced, General Purpose AC Drive
<b>2</b>	<b>Voltage</b>	
	<b>1</b>	230 V Single Phase
	<b>3</b>	230 V Three Phase
	<b>4</b>	480 V Three Phase
<b>3&amp;4</b>	<b>Frame Size &amp; Current Rating (Heavy Duty)</b>	
	<b>230VAC, Single Phase Supply Voltage</b>	
	<b>2-0070</b>	Frame 2 - 7A (2HP)
	<b>2-0100</b>	Frame 2 - 10A (3HP)
	<b>230VAC, Three Phase Supply Voltage</b>	
	<b>2-0070</b>	Frame 2 - 7A (2HP)
	<b>2-0100</b>	Frame 2 - 10A (3HP)
	<b>3-0170</b>	Frame 3 - 17A (5HP)
	<b>4-0210</b>	Frame 4 - 21A (7.5HP)
	<b>5-0300</b>	Frame 5 - 30A (10HP)
	<b>5-0400</b>	Frame 5 - 40A (15HP)
	<b>480VAC, Three Phase Supply Voltage</b>	
	<b>2-0040</b>	Frame 2 - 3.5A (2HP)
	<b>2-0065</b>	Frame 2 - 5.7A (3HP)
	<b>2-0090</b>	Frame 2 - 7.8A (5HP)
	<b>3-0120</b>	Frame 3 - 10A (7.5HP)
	<b>3-0170</b>	Frame 3 - 15A (10HP)
	<b>4-0230</b>	Frame 4 - 20A (15HP)
	<b>4-0320</b>	Frame 4 - 28A (20HP)
	<b>5-0380</b>	Frame 5 - 33A (25HP)
	<b>5-0440</b>	Frame 5 - 38A (30HP)
	<b>5-0600</b>	Frame 5 - 52A (40HP)
	<b>6-0750</b>	Frame 6 - 65A (50HP)
	<b>6-0900</b>	Frame 6 - 78A (60HP)
	<b>7-1100</b>	Frame 7 - 96A (75HP)
	<b>7-1500</b>	Frame 7 - 130A (100HP)
	<b>8-1800</b>	Frame 8 - 157A (125HP)
	<b>8-2200</b>	Frame 8 - 191A (150HP)
	<b>8-2650</b>	Frame 8 - 230A (200HP)
	<b>10-3600</b>	Frame 10 - 313A (250HP)
<b>5</b>	<b>Brake Switch</b>	
	<b>B</b>	Brake Switch Installed
<b>6</b>	<b>EMC Filter</b>	
	<b>F</b>	Category C3 Filtered

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