



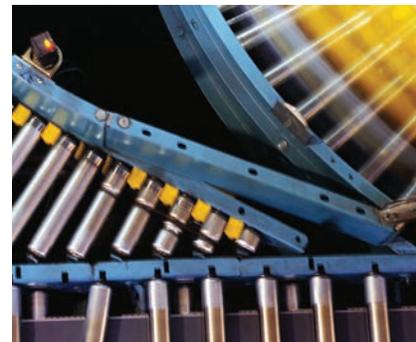
aerospace  
climate control  
electromechanical  
filtration  
fluid & gas handling  
hydraulics  
pneumatics  
process control  
sealing & shielding



## AC10 Variable Speed Drive

For Simple, Reliable Motor Control in General Purpose Applications

0.25 - 250 HP (0.2-180 kW)



ENGINEERING YOUR SUCCESS.



AC10 IP66 Drives

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AC10 IP20 Drives

# Parker Hannifin

The global leader in motion and control technologies and systems

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## Electromechanical Technologies for High Dynamic Performance and Precision Motion

Parker electromechanical technologies form an important part of Parker's global motion and control offering. Electromechanical systems combine high performance speed and position control with the flexibility to adapt the systems to the rapidly changing needs of the industries we serve.



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filtration  
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Charlotte, NC



Littlehampton, UK



Wuxi, China



Chennai, India

# Variable Speed Drive - AC10 Series

## Overview

### Description

AC10 Variable Frequency Drive is a simple, reliable and economical solution to every-day motor control applications requiring speed or torque control within the power range of 0.25 HP to 250 HP, with NEMA 4X indoor/IP66 version available through 20 HP. Having features normally only associated with higher specification drives, including sensorless vector mode, output frequency up to 590 Hz, UL listing, and a full 150% overload at 0.5 Hz for 1 minute, AC10 provides an optimized solution for OEM machine builders looking for a compact, cost-effective drive without compromising on performance. The AC10 is suitable for either AC induction or permanent magnet AC motor designs.

### Features

#### Simplicity

AC10 is designed to reduce the time and effort required to install, setup and commission through its easy to use integrated keypad. Minimal wiring requirements and two easily accessed terminal rails make AC10 fast and simple to install, having you up and running in no time at all. Auto-tuning sensorless vector mode takes AC10 beyond simple V/Hz control allowing users requiring greater dynamic speed or torque control for their application to benefit from the drives enhanced 0.5% speed and 5% torque accuracy.

#### Reliability

Proven technology and manufacturing techniques ensure AC10 has been engineered and built to deliver consistently outstanding levels of performance day in, day out ensuring maximum uptime and productivity. Thanks to its conformally coated PC boards, AC10 is able to withstand even the most severe class 3C3 environment which many other drives in this class would struggle with, allowing you to operate AC10 with the utmost confidence in more applications. For the ultimate in protection, IP66 rated models are available.



IP20 Model



IP66 Model



### Technical Characteristics - Overview

<b>Enclosure</b>	IP20	NEMA 4X indoor/IP66
<b>Power Supply</b>	220V - 240V $\pm 15\%$ Single Phase 220V - 240V $\pm 15\%$ Three Phase 380V - 480V $+10\%/-15\%$ Three Phase	
<b>Input Frequency</b>	50/60 Hz	
<b>Power Range</b>	0.25-250 HP (0.2-180 kW)	0.5-20 HP (0.4-15 kW)
<b>Operating Temperature</b>	0-40 °C	0-50 °C
<b>Analog Inputs</b>	2x (0-10 V, 0-5 V, 0-20 mA, 4-20 mA)	
<b>Analog Outputs</b>	1x (0-10 V, 0-20 mA)	
<b>Digital Inputs</b>	5x 24 VDC	6x 24 VDC
<b>Digital Outputs</b>	1x 24 VDC	
<b>Relay Output</b>	1x 5 A @230 VAC	





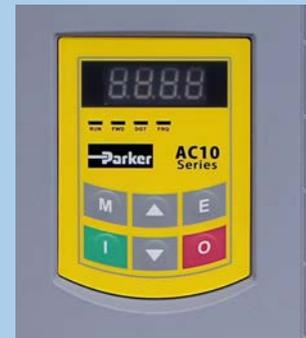
### Simple or enhanced performance

- Simple V/Hz control for general energy saving applications
- Enhanced auto-tuning sensorless vector control providing higher dynamic performance for applications requiring greater speed or torque accuracy



### All at the touch of a button

- Standard ergonomic keypad providing full access to all drive functions
- 4 LEDs provide instant indication of drive status
- Remote mountable keypad option for ease of setup and operation
- Simple out of the box operation thanks to integrated macros and quick start guide



IP20 Keypad

### Control at your fingertips

Every AC10 comes complete with an ergonomic operator keypad as standard, featuring LED drive status indicators, a display and a tactile membrane style keypad.

In addition to displaying operating status and running information, the display is also used to access drive configuration parameters which can be quickly and easily changed via the keypad. A three level menu structure ensures that configuration is simple and organized.

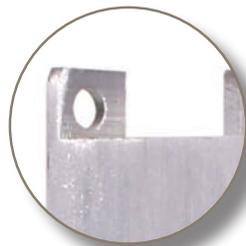
The keypad can also be used to take local control of the motor to start, stop, increase or decrease motor speed.

An optional remote mounting keypad is also available for IP20 units, providing the same functionality as the drive mounted keypad.



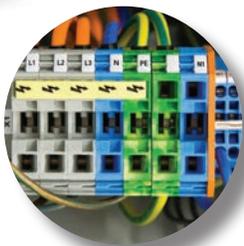
### High Speed Operation

- Up to 590 Hz output for high speed operations such as spindles, centrifuges, mixers etc.



### Compact Dimensions

- When compared to other micro drives of similar functionality, AC10 is noticeably more compact reducing cabinet space and freeing up valuable floor space.

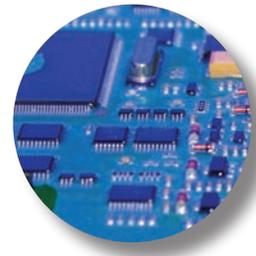


### Choice of operating voltages

- 230V single and three phase input up to 3 HP
- 480V three phase input from 0.25 HP through 250 HP

**CAUTION:**  
1) Do not re-seat while the motor is rotating  
2) Perform parts replacement after discharge is finished  
3) Do not connect output terminals to the power supply

# IP66 Units Through 20 HP



## AC10 IP66/NEMA4X

IP66/NEMA 4X (indoor) apply to IEC standard 60529-2004 and NEMA standards, and assess the capability of an enclosure to resist specific environmental conditions. IP66/NEMA 4X protection represents dust tight performance as well as the ability to withstand powerful water jets from all directions. Parker's AC10 IP66/NEMA 4X series offers all the great benefits of the AC10 series drives but with added environmental protection.



### Suited to harsh, wet, and dusty environments

- Robust NEMA 4X indoor/IP66 enclosure for direct mounting in dusty or moist environments
- Optional Internal EMC filter allows use in C3 industrial environments
- Conformal coating provides protection in arduous class 3C3 environments
- 50°C operating temperature

### Flexible Connections

- Flexible digital inputs and outputs, and relay output to suit your application needs
- Internal dynamic brake switch as standard
- Easy user access with removable "gland plate"
- Clone module connection



### Modbus/RS485 communication

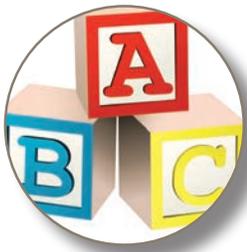
- Connection to Parker PDB drive setup and monitoring tool
- Connection to PLC or other Modbus RTU/RS485 network



### Extra power when it's needed

- 150 % overload for 60 seconds at 0.5 Hz to provide extra starting torque for high inertia loads





### Simple or enhanced performance

- Simple V/Hz control for general energy saving applications
- Enhanced auto-tuning sensorless vector control providing higher dynamic performance for applications requiring greater speed or torque accuracy



### All at the touch of a button

- NEMA 4/IP66 ergonomic keypad providing full access to all drive functions
- Simple out of the box operation thanks to integrated macros and quick start guide



IP66 Keypad

### Control at your fingertips

AC10 comes complete with an ergonomic operator keypad as standard, featuring LED drive status indicators, a display and a tactile membrane style keypad.

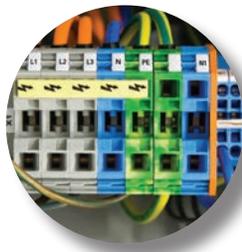
In addition to displaying operating status and running information, the display is also used to access drive configuration parameters which can be quickly and easily changed via the keypad. A three level menu structure ensures that configuration is simple and organized.

The keypad can also be used to take local control of the motor to start, stop, increase or decrease motor speed.



### High Speed Operation

- Up to 590 Hz output for high speed operations such as spindles, centrifuges, mixers etc.



### Choice of operating voltages

- 230V single and three phase input up to 3 HP
- 480V three phase input from 0.25 HP through 20 HP

# Applications

AC10 provides a simple 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.

Making use of pre-defined control logic, **Application Macros** enable users to quickly configure the AC10 for control of one of a number of pre-defined functions. Information is presented to the user in a template format which can then be simply and easily populated with the specific details of the application.

## Typical applications for AC10 include...

- Conveyors
- Centrifuges
- Fans
- Mixers
- Packaging Machines
- Textile Machines
- Pumps
- Strapping Machines
- Labeling Machines
- Industrial Washing Machines
- Machine Tool Spindles
- Food and Beverage



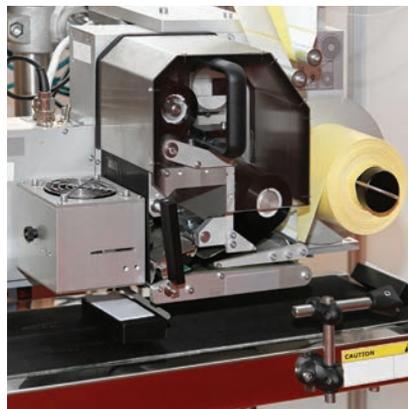
Conveyors



Fans

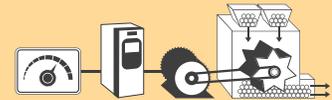


Mixers



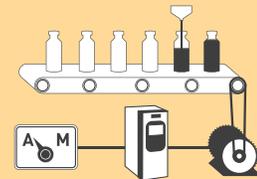
Packaging Machines

## AC10 Standard Application Macros include...



### BASIC SPEED CONTROL

Set speed and voltage or current with start/stop direction control



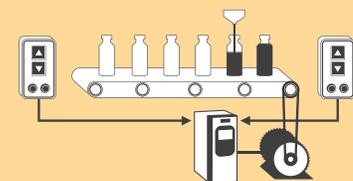
### AUTOMATIC/MANUAL CONTROL

Set to run with local speed setting or external reference



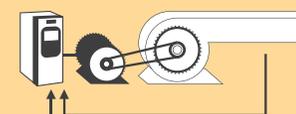
### PRESET SPEED CONTROL

Select up to 8 pre-programmed speeds using digital inputs



### RAISE/LOWER

Increase or reduce speed using digital inputs



Speed Setpoint      Pressure or Volume Feedback

### PID CONTROL

Control the pressure, flow, temperature or any process variable

# Technical Specifications

## Power Ratings - IP20



230V Single Phase Input				
Part Number	Nominal Power		Output Current [A]	Frame Size
	HP	kW		
10G-11-0015-BN	0.25	0.2	1.4	1
10G-11-0025-BN	0.5	0.4	2.4	1
10G-11-0035-BN	0.75	0.55	3.3	1
10G-11-0045-BN	1	0.75	4.3	1
10G-12-0050-BN	1.5	1.1	4.8	2
10G-12-0070-BN	2	1.5	6.7	2
10G-12-0100-BN	3	2.2	9.6	2

230V Three Phase Input				
Part Number	Nominal Power		Output Current [A]	Frame Size
	HP	kW		
10G-31-0015-BN	0.25	0.2	1.4	1
10G-31-0025-BN	0.5	0.4	2.4	1
10G-31-0035-BN	0.75	0.55	3.3	1
10G-31-0045-BN	1	0.75	4.3	1
10G-32-0050-BN	1.5	1.1	4.8	2
10G-32-0070-BN	2	1.5	6.7	2
10G-32-0100-BN	3	2.2	9.6	2

480V Three Phase Input				
Part Number	Nominal Power		Output Current [A]	Frame Size
	HP	kW		
10G-41-0006-BN	0.25	0.2	0.5	1
10G-41-0010-BN	0.5	0.4	0.9	1
10G-41-0015-BN	0.75	0.55	1.3	1
10G-42-0020-BN	1	0.75	1.7	2
10G-42-0030-BN	1.5	1.1	2.6	2
10G-42-0040-BN	2	1.5	3.5	2
10G-42-0065-BN	3	2.2	5.7	2
10G-43-0090-BN	5	4	7.8	3
10G-43-0120-BN	7.5	5.5	10	3
10G-44-0170-BN	10	7.5	15	4
10G-44-0230-BN	15	11	20	4
10G-45-0320-BN	20	15	28	5
10G-45-0380-BN	25	18.5	33	5
10G-45-0440-BN	30	22	38	5
10G-46-0600-BN	40	30	52	6
10G-47-0750-BN	50	37	65	7
10G-47-0900-BN	60	45	78	7
10G-48-1100-BN	75	55	96	8
10G-48-1500-BN	100	75	130	8
10G-49-1800-BN	125	90	157	9
10G-49-2200-BN	150	110	191	9
10G-410-2650-BN	200	132	230	10
10G-411-3200-BN	225	160	278	11
10G-411-3600-BN	250	180	313	11

## Power Ratings - IP66



230V Three Phase Input				
Part Number	Nominal Power		Output Current [A]	Frame Size
	HP	kW		
16G-11-0025-BN	0.5	0.4	2.4	1
16G-11-0045-BN	1	0.75	4.3	1
16G-11-0070-BN	2	1.5	6.7	1
16G-11-0100-BN	3	2.2	9.6	1

480V Three Phase Input				
Part Number	Nominal Power		Output Current [A]	Frame Size
	HP	kW		
16G-41-0020-BN	1	0.75	1.7	1
16G-41-0040-BN	2	1.5	3.5	1
16G-41-0065-BN	2	2.2	5.7	1
16G-41-0090-BN	5	4	7.8	1
16G-42-0120-BN	7.5	5.5	10	2
16G-42-0170-BN	10	7.5	15	2
16G-43-0230-BN	15	11	20	3
16G-43-0320-BN	20	15	28	3

## Electrical Specifications

<b>Power Supply</b>	1 ph 220V-240V ±15%, 3 ph 220V-240V ±15% 3 ph 380V-480V +10%/-15%
<b>Rated Input Frequency</b>	50/60 Hz
<b>Maximum Switching Frequency</b>	10 kHz without derating
<b>Overload</b>	150% of rated current for 60 seconds, 200% of rated current for 2 seconds
<b>Output Frequency</b>	0.5-590 Hz
<b>Digital Resolution</b>	0.01 Hz
<b>Switching Frequency</b>	2-10 kHz selectable
<b>Control Mode</b>	Volts/Hertz or Sensorless Vector (SLV) Mode
<b>Earth Leakage Current</b>	>10 mA (all models)

## Environmental Characteristics

<b>Temperature Range</b>	Operating Temperature: 0-50°C, (derate above 40°C - IP20 only)
<b>Humidity</b>	Operating humidity: Below 90% Relative Humidity, non-condensing (95% for IP66)
<b>Vibration</b>	Below 0.5 g
<b>Altitude</b>	1000 m ASL
<b>Protection Degree</b>	IP20 and IP66/NEMA 4X indoor models
<b>Chemically Active Substances</b>	For the standard product, compliance with EN60271-3-3 is Class 3C3

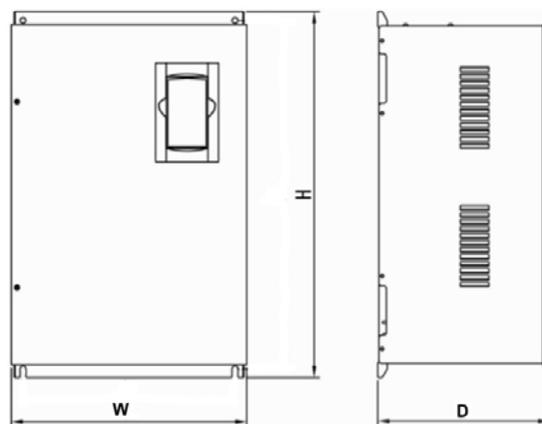
## Standards and Conformance

<b>Overvoltage Category</b>	Overvoltage category III (numeral defining an impulse withstand level)
<b>EMC Compatibility</b>	Meets the requirements of IEC/EN61800-3 : 2004 "Adjustable speed electrical power drive systems – Part 3"
<b>Certifications</b>	UL Listed. UL508C and CSA 22.2

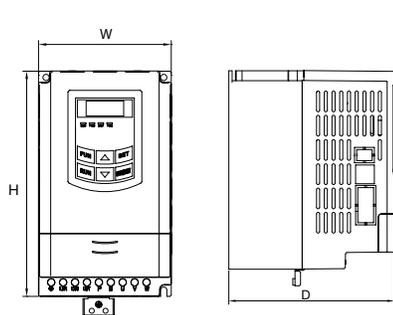
## Dimensions [in/mm]

IP20 Frame	Height (H)	Width (W)	Depth (D)	Weight [lb/kg]
1	5.43/138	3.15/80	5.31/135	2.76/1.25
2	7.09/180	4.17/106	5.91/150	3.88/1.76
3	9.25/235	5.43/138	5.98/152	6.53/2.96
4	10.43/265	6.14/156	6.69/170	10.80/4.9
5	13.39/340	8.07/205	7.71/196	16.53/7.5
6	17.16/435	10.43/265	9.25/235	37.48/17
7	18.90/480	12.40/315	9.21/234	55.12/25
8	21.85/555	14.17/360	10.43/265	88.19/40
9	24.80/630	16.14/410	11.81/300	121.25/55
10	30.12/765	20.32/516	12.83/326	207.24/94
11	35.83/910	22.05/560	13.46/342	264.56/120

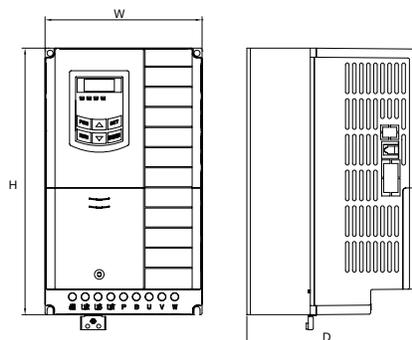
IP66 Frame	Height (H)	Width (W)	Depth (D)	Weight [lb/kg]
1	16.22/412	7.87/200	7.80/198	15.87/7.2
2	16.46/418	9.53/242	7.80/198	20.28/9.2
3	18.54/471	9.53/242	8.98/228	26.90/12.2



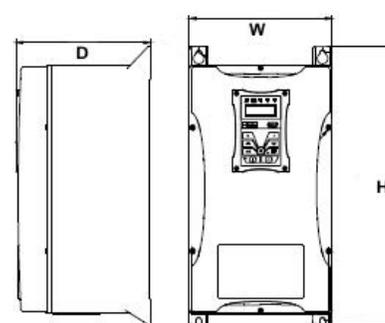
Frame 6, 7, 8, 9, 10, 11 (IP20)



Frame 1, 2 (IP20)



Frame 3, 4, 5 (IP20)



Frame 1, 2, 3 (IP66)

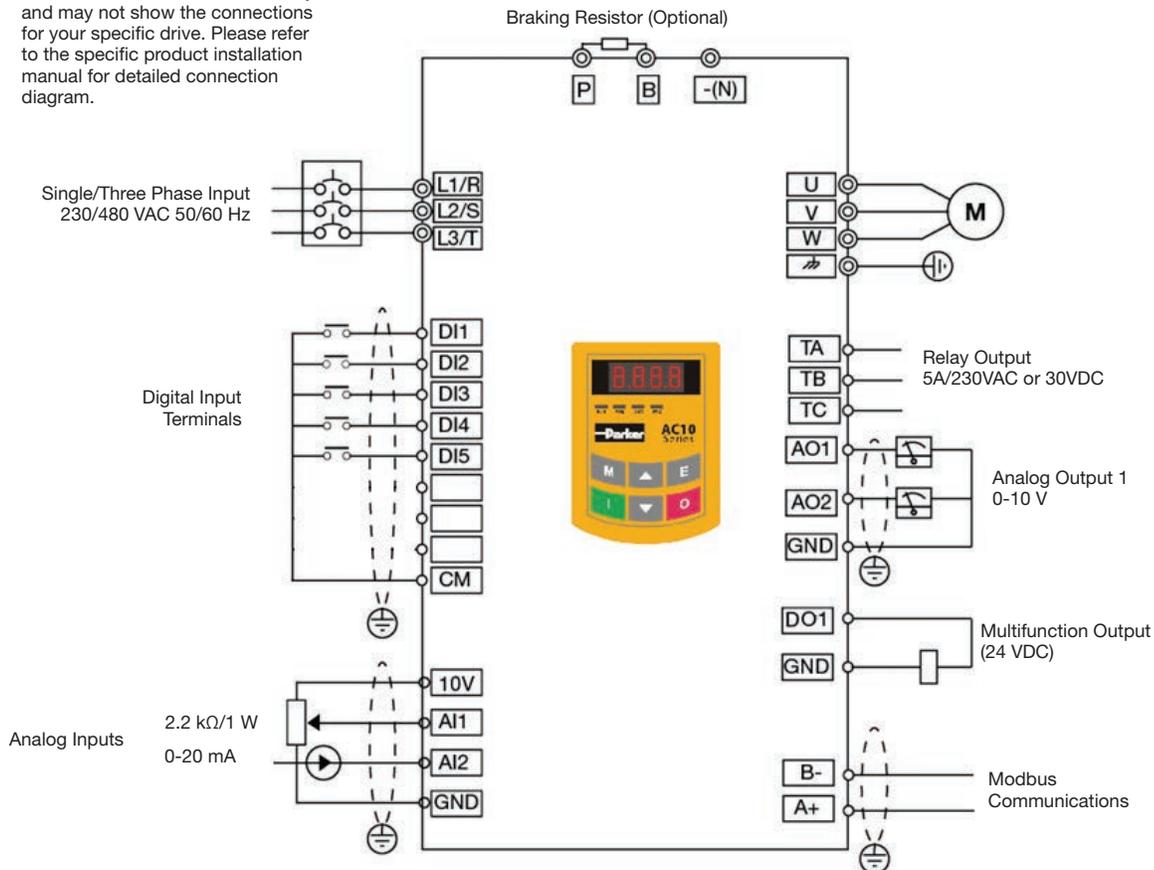
## Connections

Power Terminals	Description
L1/R	Single or three phase input L1
L2/S	Single or three phase input L2
L3/T	Three phase input L3
P	Braking Resistor
B	Braking Resistor
U	Motor Output phase 1/U
V	Motor Output phase 2/V
W	Motor Output phase 3/W

Control Terminals	Description
TA	Alarm N/O relay contact, 5A, 24V rated
TB	Alarm N/C relay contact, 5A, 24V rated
TC	Drive Alarm common
DO1	Digital Output 1
DO2	Digital Output 2 (Frames 6-11)
24V	24 VDC Power output (max 50 mA)
CM	0 V DC common
DI1	Digital Input 1
DI2	Digital Input 2
DI3	Digital Input 3
DI4	Digital Input 4
DI5	Digital Input 5
DI6	Digital Input 6 (IP66 and Frames 6-11)
DI7	Digital Input (Frames 6-11)
DI8	Digital Input (Frames 6-11)
10V	10 V Reference supply (max 20 mA)
AI1	Analog input 1
AI2	Analog input 2
GND	Power Supply 0V
AO1	Analog Output 1
AO2	Analog Output 2 (Frame 6-11)
A+	RS485 Channel A
B-	RS485 Channel B

- Analog Input 1: (0-10 V)
- Analog Input 2: (0-10 V, 0-20 mA)
- Analog Outputs: (0-10 V, 0-20 mA)
- Digital Inputs: Nominal 24 VDC
- Digital Output: Nominal 24 VDC
- Relay Output: Volt free (dry) contact, 5A@230 VAC max

This illustration is for reference only, and may not show the connections for your specific drive. Please refer to the specific product installation manual for detailed connection diagram.



## Accessories and Options

### Remote Mounting Keypad

Allows users to mount the keypad remote from the drive, such as on the door of an electrical enclosure. The remote keypad provides the same functionality as the drive mounted keypad and is connected to the drive via a 1.5 meter cable.

Order Code	Description
1001-00-00	Remote Keypad (AC10 IP20 only)



### Cloning Module

Allows users to copy applications between drives and upload/download parameter sets between drive and PDB software.

Order Code	Description
1002-00-00	Cloning Module



### Three Phase Line Reactor

Line reactors can help limit input harmonics and act as a current limiting device. They help protect the AC10 from potentially harmful power line disturbances.

AC10 (IP20) Part Number	AC10 (IP66) Part Number	HP (230V)	Line Reactor Part Number	Inductance [mH]
10G-31-0015-BN		0.25	CO473957U016	6.9
10G-31-0025-BN	16G-31-0025-BN	0.5	CO473957U021	5.3
10G-31-0035-BN		0.75	CO473957U034	3.2
10G-31-0045-BN	16G-31-0045-BN	1	CO473957U048	2.3
10G-32-0050-BN		1.5	CO473958U110	2.1
10G-32-0070-BN	16G-31-0070-BN	2	CO473957U076	1.5
10G-32-0100-BN	16G-31-0100-BN	3	CO473957U110	1

AC10 (IP20) Part Number	AC10 (IP66) Part Number	HP (480V)	Line Reactor Part Number	Inductance [mH]
10G-41-0006-BN		0.25	CO473958U010	33
10G-41-0010-BN		.5	CO473958U011	21
10G-41-0015-BN		.75	CO473958U016	14
10G-42-0020-BN	16G-41-0020-BN	1	CO473958U021	11
10G-42-0030-BN		1.5	CO473958U047	7.7
10G-42-0040-BN	16G-41-0040-BN	2	CO473958U034	6.8
10G-42-0065-BN	16G-41-0065-BN	3	CO473958U048	4.8
10G-43-0090-BN	16G-41-0090-BN	5	CO473958U076	3
10G-43-0120-BN	16G-42-0120-BN	7.5	CO473958U110	2.1
10G-44-0170-BN	16G-42-0170-BN	10	CO473958U140	1.6
10G-44-0230-BN	16G-43-0230-BN	15	CO473958U210	1.1
10G-45-0320-BN	16G-43-0320-BN	20	CO473958U280	0.82
10G-45-0380-BN		25	CO473958U350	0.71
10G-45-0440-BN		30	CO473958U460	0.55
10G-46-0600-BN		40	CO473958U650	
10G-47-0750-BN		50	CO473958U650	
10G-47-0900-BN		60	CO473958U830	
10G-48-1100-BN		75	CO473958U1K0	
10G-48-1500-BN		100	CO473958U1K3	
10G-49-1800-BN		125	CO473958U1K6	
10G-49-2200-BN		150	CO473958U2K0	
10G-410-2650-BN		200	CO473958U2K5	
10G-411-3200-BN		225	CO473958U3K2	
10G-411-3600-BN		250	CO473958U4K1	

Note: Accessories and options are not IP66 rated.

## Accessories and Options

### Circuit Breakers

AC10 (IP20) Part Number	AC10 (IP66) Part Number	HP Rating (230V single phase)	Circuit Breaker Part Number
10G-11-0015-BN		0.25	DC473952U010
10G-11-0025-BN	16G-11-0025-BN	0.5	
10G-11-0035-BN		0.75	DC473952U015
10G-11-0045-BN	16G-11-0045-BN	1	DC473952U025
10G-12-0050-BN		1.5	
10G-12-0070-BN	16G-11-0070-BN	2	DC473952U040
10G-12-0100-BN	16G-11-0100-BN	3	

Note: Accessories and options are not IP66 rated.

Two-pole breaker rated at 240V

AC10 (IP20) Part Number	AC10 (IP66) Part Number	HP Rating (230V 3 phase)	Circuit Breaker Part Number
10G-31-0015-BN		0.25	DC472106U015
10G-31-0025-BN	16G-31-0025-BN	0.5	
10G-31-0035-BN		0.75	
10G-31-0045-BN	16G-31-0045-BN	1	DC472106U020
10G-32-0050-BN		1.5	
10G-32-0070-BN	16G-31-0070-BN	2	
10G-32-0100-BN	16G-31-0100-BN	3	

AC10 (IP20) Part Number	AC10 (IP66) Part Number	HP Rating (480V)	Circuit Breaker Part Number
10G-41-0006-BN		0.25	DC472106U015
10G-41-0010-BN		0.5	
10G-41-0015-BN		0.75	
10G-42-0020-BN	16G-41-0020-BN	1	
10G-42-0030-BN		1.5	
10G-42-0040-BN	16G-41-0040-BN	2	
10G-42-0065-BN	16G-41-0065-BN	3	DC472106U020
10G-43-0090-BN	16G-41-0090-BN	5	
10G-43-0120-BN	16G-42-0120-BN	7.5	DC472106U030
10G-44-0170-BN	16G-42-0170-BN	10	
10G-44-0230-BN	16G-43-0230-BN	15	DC472106U050
10G-45-0320-BN	16G-43-0320-BN	20	DC472106U070
10G-45-0380-BN		25	DC472106U080
10G-45-0440-BN		30	
10G-46-0600-BN		40	DC472106U100
10G-47-0750-BN		50	DC472106U101
10G-47-0900-BN		60	DC472106U125
10G-48-1100-BN		75	DC472108U150
10G-48-1500-BN		100	DC472108U200
10G-49-1800-BN		125	DC472108U250
10G-49-2200-BN		150	DC472109U300
10G-410-2650-BN		200	DC472109U350
10G-411-3200-BN		225	DC472109U400
10G-411-3600-BN		250	DC472110U500

## Accessories and Options

### Fuse Kits

Fuse kits provide protection on the AC line side, and include fuses and fuse blocks. Provided loose for panel mounting.

AC10 (IP20) Part Number	AC10 (IP66) Part Number	HP Rating (230V single phase)	Fuse Kit Part Number
10G-11-0015-BN		0.25	LA473950U015
10G-11-0025-BN	16G-11-0025-BN	0.5	
10G-11-0035-BN		0.75	
10G-11-0045-BN	16G-11-0045-BN	1	LA473950U025
10G-12-0050-BN		1.5	
10G-12-0070-BN	16G-11-0070-BN	2	
10G-12-0100-BN	16G-11-0100-BN	3	

Note: Accessories and options are not IP66 rated.

AC10 (IP20) Part Number	AC10 (IP66) Part Number	HP Rating (230V 3 phase)	Fuse Kit Part Number
10G-31-0015-BN		0.25	LA473951U015
10G-31-0025-BN		0.5	LA473951U015
	16G-31-0025-BN	0.5	LA473951U006
10G-31-0035-BN		0.75	LA473951U015
10G-31-0045-BN	16G-31-0045-BN	1	LA473951U015
10G-32-0050-BN		1.5	LA473951U025
10G-32-0070-BN		2	
	16G-31-0070-BN	2	LA473951U015
10G-32-0100-BN		3	LA473951U025
	16G-31-0100-BN	3	LA473951U015

AC10 (IP20) Part Number	AC10 (IP66) Part Number	HP Rating (480V)	Fuse Kit Part Number
10G-41-0006-BN		0.25	LA473951U006
10G-41-0010-BN		0.5	
10G-41-0015-BN		0.75	
10G-42-0020-BN	16G-41-0020-BN	1	LA473951U015
10G-42-0030-BN		1.5	
10G-42-0040-BN	16G-41-0040-BN	2	
10G-42-0065-BN	16G-41-0065-BN	3	LA473951U030
10G-43-0090-BN	16G-41-0090-BN	5	
10G-43-0120-BN	16G-42-0120-BN	7.5	
10G-44-0170-BN	16G-42-0170-BN	10	LA473951U045
10G-44-0230-BN	16G-43-0230-BN	15	LA473951U060
10G-45-0320-BN	16G-43-0320-BN	20	LA473951U080
10G-45-0380-BN		25	LA473951U090
10G-45-0440-BN		30	LA473951U100
10G-46-0600-BN		40	LA473951U125
10G-47-0750-BN		50	LA473951U150
10G-47-0900-BN		60	LA473951U200
10G-48-1100-BN		75	
10G-48-1500-BN		100	LA473951U300
10G-49-1800-BN		125	LA473951U350
10G-49-2200-BN		150	LA473951U400
10G-410-2650-BN		200	LA473951U500
10G-411-3200-BN		225	LA473951U600
10G-411-3600-BN		250	

## Accessories and Options

### Contactors

Rated 690VAC, 3-pole design. Provided loose for panel mounting.

AC10 (IP20) Part Number	AC10 (IP66) Part Number	HP Rating	Contactor Part Number
10G-1X-XXXX-BN	16G-1X-XXXX-BN	All	DB473959U020
10G-31-XXXX-BN	16G-31-XXXX-BN	All	DB473959U020
10G-41-0006-BN		0.25	DB473959U020
10G-41-0010-BN		0.5	
10G-41-0015-BN		0.75	
10G-42-0020-BN	16G-41-0020-BN	1	
10G-42-0030-BN		1.5	
10G-42-0040-BN	16G-41-0040-BN	2	
10G-42-0065-BN	16G-41-0065-BN	3	
10G-43-0090-BN	16G-41-0090-BN	5	
10G-43-0120-BN	16G-42-0120-BN	7.5	
10G-44-0170-BN	16G-42-0170-BN	10	
10G-44-0230-BN	16G-43-0230-BN	15	
10G-45-0320-BN	16G-43-0320-BN	20	
10G-45-0380-BN		25	
10G-45-0440-BN		30	
10G-46-0600-BN		40	
10G-47-0750-BN		50	
10G-47-0900-BN		60	
10G-48-1100-BN		75	
10G-48-1500-BN		100	
10G-49-1800-BN		125	DB473115U135
10G-49-2200-BN		150	DB473115U160
10G-410-2650-BN		200	DB473115U210
10G-411-3200-BN		225	DB473115U275
10G-411-3600-BN		250	DB473115U350

Note: Accessories and options are not IP66 rated.

### Control Transformer

Provides 120 volt single phase from 230/460 volt line. Transformer kit includes primary and secondary fuses. Select based on HP rating of drive.

AC10 Ratings	Control Transformer Part Number	Description	Spare primary fuse	Spare secondary fuse
All AC10 from 0.25-125 HP	LA473961U0150	Control transformer kit - 150 VA	CH352006U015	CH352124U025
All AC10 from 150-250 HP	LA473961U0250	Control transformer kit - 250 VA	CH352006U030	CH352124U040

Note: Accessories and options are not IP66 rated.

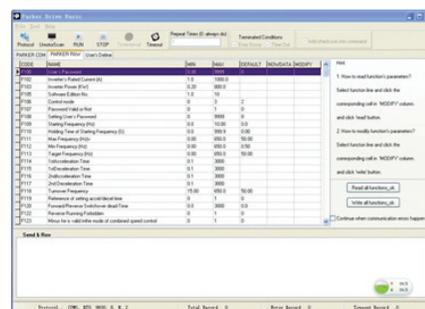
## Dynamic Braking Resistors

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. 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.

AC10 (IP20) Part Number	AC10 (IP66) Part Number	HP Rating	DB Kit Part Number	Resistance [Ohms]	Power [W]
10G-11-XXXX-BN	16G-11-XXXX-BN	All	LA471357	100	200
10G-31-0015-BN		0.25	LA471357	100	200
10G-31-0025-BN	16G-31-0025-BN	0.5			
10G-31-0035-BN		0.75			
10G-31-0045-BN	16G-31-0045-BN	1	LA471358	56	200
10G-32-0050-BN		1.5			
10G-32-0070-BN	16G-31-0070-BN	2			
		3			
10G-32-0100-BN	16G-31-0100-BN	3			

Note: Accessories and options are not IP66 rated.

AC10 (IP20) Part Number	AC10 (IP66) Part Number	HP Rating	DB Kit Part Number	Resistance [Ohms]	Power [W]
10G-41-0006-BN		0.25	LA471353	500	60
10G-41-0010-BN		0.5			
10G-41-0015-BN		0.75			
10G-42-0020-BN	16G-41-0020-BN	1	LA471355	200	100
10G-42-0030-BN		1.5			
10G-42-0040-BN	16G-41-0040-BN	2			
10G-42-0065-BN	16G-41-0065-BN	3	LA471357	100	200
10G-43-0090-BN	16G-41-0090-BN	5.0			
10G-43-0120-BN	16G-42-0120-BN	7.5			
10G-44-0170-BN	16G-42-0170-BN	10			
10G-44-0230-BN	16G-43-0230-BN	15			
10G-45-0320-BN	16G-43-0320-BN	20	LA471359	56	500
10G-45-0380-BN		25			
10G-45-0440-BN		30			
10G-46-0600-BN		40	LA471362	25	756
10G-47-0750-BN		50			
10G-47-0900-BN		60	LA471365	15	1135
10G-48-1100-BN		75			
10G-48-1500-BN		100			
10G-49-1800-BN		125	LA471367	8	1502
10G-49-2200-BN		150			
10G-410-2650-BN		200	LA471369	6	2258
10G-411-3200-BN		225			
10G-411-3600-BN		250			

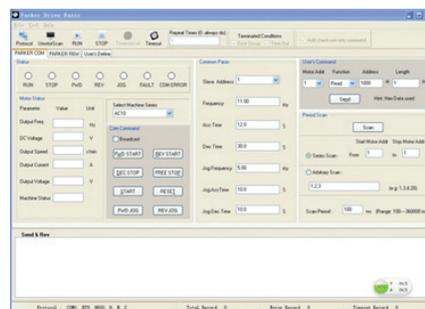


## Configuration and Monitoring Software - Parker Drive Basic (PDB)

PDB is a monitoring and configuration software tool provided free of charge with the AC10, and updates will be available as released on our website. Connecting to the AC10 over Modbus, Parker Drive Basic enables users to import, modify and export drive parameters as well as providing a convenient means of starting, stopping and monitoring the operation of the drive.

Note: an RS232/RS485 adapter is required to enable connection between PC and drive.

To download PDB software, please visit [www.parker.com/ssdusa/software](http://www.parker.com/ssdusa/software)



# Order Code

## AC10

	1	2		3	4		5		6	7
Order example	10	G	-	1	1	-	0015	-	B	N

<b>1</b>	<b>Product Family</b>	
10	AC10 VFD - IP20	
<b>2</b>	<b>Industry</b>	
G	General Purpose	

<b>3</b>	<b>Voltage</b>	
1	230V Single Phase	
3	230V Three Phase	
4	480V Three Phase	

### 4, 5 Frame Size, Rated Current

#### 230V Supply

1-0015	0.25 HP/0.2 kW
1-0025	0.5 HP/0.4 kW
1-0035	0.75 HP/0.55 kW
1-0045	1 HP/0.75 kW
2-0050	1.5 HP/1.1 kW
2-0070	2 HP/1.5 kW
3-0100	3 HP/2.2 kW

#### 480V Supply

1-0006	0.25 HP/0.2 kW
1-0010	0.5 HP/0.4 kW
1-0015	0.75 HP/0.55 kW
2-0020	1 HP/0.75 kW
2-0030	1.5 HP/1.1 kW
2-0040	2 HP/1.5 kW
2-0065	3 HP/2.2 kW
3-0090	5 HP/4.0 kW
3-0120	7.5 HP/5.5 kW
4-0170	10 HP/7.5 kW
4-0230	15 HP/11 kW
5-0320	20 HP/15 kW
5-0380	25 HP/18.5 kW
5-0440	30 HP/22 kW
6-0600	40 HP/30 kW
7-0750	50 HP/37 kW
7-0900	60 HP/45 kW
8-1100	75 HP/55 kW
8-1500	100 HP/75 kW
9-1800	125 HP/90 kW
9-2200	150 HP/110 kW
10-2650	200 HP/132 kW
11-3200	225 HP/160 kW
11-3600	250 HP/180 kW

<b>6</b>	<b>Braking Module</b>	
B	Braking Module Installed	

<b>7</b>	<b>EMC Filter</b>	
N	No Filter Installed	
F	C3 EMC Filter Installed	

<b>1</b>	<b>Product Family</b>	
16	AC10 VFD - IP66	
<b>2</b>	<b>Industry</b>	
G	General Purpose	

<b>3</b>	<b>Voltage</b>	
1	230V Single Phase	
3	230V Three Phase	
4	480V Three Phase	

### 4, 5 Frame Size, Rated Current

#### 230V Supply

1-0025	0.5 HP/0.4 kW
1-0045	1 HP/0.75 kW
2-0070	2 HP/1.5 kW
2-0100	3 HP/2.2 kW

#### 480V Supply

1-0020	1 HP/0.75 kW
1-0040	2 HP/1.5 kW
1-0065	3 HP/2.2 kW
1-0090	5 HP/4.0 kW
2-0120	7.5 HP/5.5 kW
2-0170	10 HP/7.5 kW
3-0230	15 HP/11 kW
3-0320	20 HP/15 kW

<b>6</b>	<b>Braking Module</b>	
B	Braking Module Installed	

<b>7</b>	<b>EMC Filter</b>	
N	No Filter Installed	
F	C3 EMC Filter Installed	

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