



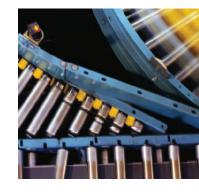
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process control
sealing & shielding





AC10 Variable Speed Drive

IP20 & IP66 Compact Drive for Simple, Reliable Motor Control in General Purpose Applications







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Variable Speed Drive - AC10 Series

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Parker Hannifin

The global leader in motion and control technologies

Global Product Design

Parker Hannifin has more than 40 years experience in the design and manufacturing of drives, controls, motors and mechanical products. With dedicated global product development teams, Parker draws on industry-leading technological leadership and experience from engineering teams in Europe, North America and Asia.

Local Application Expertise

Parker has local engineering resources committed to adapting and applying our current products and technologies to best fit our customers' needs.

Manufacturing to Meet Our Customers' Needs

Parker is committed to meeting the increasing service demands that our customers require to succeed in the global industrial market. Parker's manufacturing teams seek continuous improvement through the implementation of lean manufacturing methods throughout the process. We measure ourselves on meeting our customers' expectations of quality and delivery, not just our own. In order to meet these expectations, Parker operates and continues to invest in our manufacturing facilities in Europe, North America and Asia.

Electromechanical Worldwide Manufacturing Locations

Europe

Littlehampton, United Kingdom Dijon, France Offenburg, Germany Filderstadt, Germany Milan, Italy

Asia

Wuxi, China Chennai, India

North America

Rohnert Park, California Irwin, Pennsylvania Charlotte, North Carolina New Ulm, Minnesota



Offenburg, Germany

Local Manufacturing and Support in Europe

Parker provides sales assistance and local technical support through a network of dedicated sales teams and authorized technical distributors throughout Europe.

For contact information, please refer to the Sales Offices on the back cover of this document or visit www.parker.com



Milan, Italy



Littlehampton, UK



Filderstadt, Germany



Dijon, France

Variable Speed Drive - AC10 Series

Overview

Description

The AC10 Compact Drive is a simple, reliable and economical solution to every-day motor control applications requiring speed or torque control within the power range of 0.2 kW to 180 kW for IP20 and 0.4 kW to 90 kW for IP66. Having compact dimensions and features normally only associated with higher specification drives, including sensorless vector mode for control of Permanent Magnet (PMAC) and AC induction motors, output frequency up to 590 Hz, 3 phase 400 V supplies in all 11 frame sizes and a full 150 % overload at 0.5 Hz for 1 minute, AC10 provides an optimised solution for OEM machine builders looking for a compact, cost-effective drive without compromising on performance.

All AC10 drives are now compatible with DSE-Lite: an easy-to-use software package designed to make commissioning and managing your variable speed drive application as simple as possible.

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 PCBs, AC10 is able to withstand even the most arduous 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.



Technical Characteristics IP20 - Overview

Power Supply	220 240 VAC ±15 % Single Phase 220 240 VAC ±15 % Three Phase 380 480 VAC +10 % -15 % Three Phase
Input Frequency	50/60 Hz
Power Range	0.2180 kW
Operating Temperature	-1050 °C (derate above 40 °C)
Analogue Inputs	1x (0-10V), 1x (0-10V, 0-5V, 0-20mA, 4-20mA)
Analogue Outputs	1x (0-10 V), 1x (0-20 mA)
Digital Inputs	6x 24 VDC frames 1-5, 8x 24 VDC frames 6-11
Digital Outputs	1x 24 VDC frames 1-5 2x 24 VDC frames 6-11
Relay Output	1x 5 A @230 VAC



Technical Characteristics IP66 - Overview

Power Supply	220 240 VAC ±15 % Single Phase 220 240 VAC ±15 % Three Phase 380 480 VAC +10 % -15 % Three Phase
Input Frequency	50/60 Hz
Power Range	0.490 kW
Operating Temperature	-1050 °C
Analogue Inputs	1x (0-10V), 1x (0-10V, 0-5V, 0-20mA, 4-20mA)
Analogue Outputs	1x (0-10 V, 0-20 mA)
Digital Intputs	6x 24 VDC
Digital Outputs	1x 24 VDC
Relay Output	1x 5 A @230 VAC

AC10 IP20

The AC10 Compact Drive is a simple, reliable and economical solution to every-day motor control applications in the power range 0.2 kW to 180 kW.

IE2 Efficiency MR Series AC Induction Motors

An ideal complement to AC10, the MR Series AC Induction motors are IE2 efficient and start from a power range of 0.09 kW. Featuring optional axial in-line force ventilation fan and holding brake, the MR motor is a high quality durable AC motor which when matched to the AC10 will provide you with a complete motor/drive package that will deliver optimal performance in your application.



AC10 Software

DSE Lite, the software package for AC10 series is easy to use, with straightforward block programming and an intuitive user interface.

It is available free of charge.



Flexible I/O

- · Freely assignable digital inputs and outputs, and relay output to suit your application needs
- Analogue inputs & outputs for connection to speed potentiometers and panel meters
- Internal dynamic brake switch as standard



Modbus/RS485 communication ...

- Connection to DSE Lite drive setup and monitoring tool
- Connection to PLC or other Modbus RTU / RS485 network
- Clone module connection



Extra power when it's needed

- 150 % overload for 60 seconds at 0.5 Hz, 200 % for 2 seconds to provide extra starting torque for shifting high inertia loads
- Output power can be uprated for operation in lower ambient temperatures



Suited to all environments

- Optional Internal EMC filter allows use in C3 industrial environments
- Conformal coating provides protection in arduous class 3C3 environments
- Global availability and support
- 50 °C operating temperature
- Fan-cooled heatsink, convection cooled electronics



























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
- Sensorless PMAC & AC Induction Motor control



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



Simplified Setup

- Simple out of the box operation thanks to integrated macros and quick start guide
- · Basic speed control
- · Speed preset
- · Raise / Lower
- Auto / Man
- PID control
- Essential services (Fire Mode)
- Catch a spinning load (Fly-Catching)



High Speed Operation

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



Compact Dimensions

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



Control at your fingertips

AC10 comes complete with an ergonomic operator keypad as standard featuring 4 LED drive status indicators, a 4 digit 7 segment LED display and a tactile membrane style keypad. In addition to displaying status and running information, the LED display is also used to access drive configuration parameters which can be quickly and easily changed via the keypad.

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

An optional keypad is also available and can be mounted remotely from the drive.

Sensorless Permanent Magnet (PMAC) Motor Control

AC10 is capable of providing control of any sensorless PMAC motor, such as the Parker NX series. Servo motor technology can deliver up to 10 % greater energy savings than conventional induction motors and can also be up to 75 % smaller in size.







.... Choice of operating voltages

- 230 V single phase input up to 2.2 kW
- 230 V three phase input up to 15 kW
- 400 V three phase input from 0.2 kW through to 180 kW
- Internal DC link choke from 30 kW removing the need for external line reactor

AC10 IP66

IP66 / NEMA 4x are described in IEC standard 60529-2004 which defines the capability of an enclosure to resist specific environmental conditions. Parker AC10 IP66 offers all the great benefits of the AC10 series drives but with added environmental protection, validated by the IEC, to allow operation in difficult conditions.

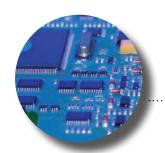


Applications

AC10 IP66 provides a no-fuss approach to general purpose industrial motor control applications across a wide range of industries.

The IP66 enclosure enables use in both indoor and outdoor applications where environmental conditions may be a concern, such as wash-down areas in food and beverage facilities and use in waste plants or rooftop units.

For outdoor applications the drive should be installed under a suitable cover to provide protection against potential damage caused by direct exposure to sun, ice and snow.



Suited to all environments

- Robust IP66 rated enclosure for environmental protection
- 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

- Freely assignable digital inputs and outputs, and a relay output to suit your application needs
- Internal dynamic brake switch as standard
- Connection to PLC or other Modbus RTU / RS485 network
- Clone module connection
- Connection to DSE Lite drive setup and monitoring tool



Easy Connection Access

 Easy user access to connections with removable gland plate



Extra power whe

- 150 % overload for 0.5 Hz, 200 % at 2 extra starting torquinertia loads
- Output power can be operation in lower a





n it's needed

60 seconds at seconds to provide for shifting high

be uprated for Imbient temperatures



...... All at the touch of a button

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



High Speed Operation

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



Customisation Options

- User customisable option panel for:
 - -Isolators
 - -Switches
 - -Push buttons
 - -Indicators

Energy savings made simple

For applications such as fan control, energy savings of up to 50% can be achieved by using the AC10 IP66 to match the motor speed to process requirements.

In addition to saving energy, power factor can be improved, system noise reduced, maintenance periods extended and overall service life increased.

AC10 IP66 can be integrated close to the motor, regardless of the environmental conditions, saving in cabling costs, space and energy as well as the cost of separate cabinets.

Dependent upon the application, payback time can be as little as a few months.

Decentralisation

AC10 IP66 enables the decentralised drive system where the drives should be installed as close as possible to the motor it is running. Savings can be achieved through reductions in cable installation times as well as the cost of the cabling itself.

Because the drive is self-enclosed no cabinets are required to hold them, saving space and money. Self-enclosure also means that heat output from the drives does not need to be ventilated from the cabinet, leading to a system which is simpler and easier to maintain.

AC10 Software

DSE Lite, the software package for AC10 series, is easy to use, with straightforward block programming and an intuitive user interface.

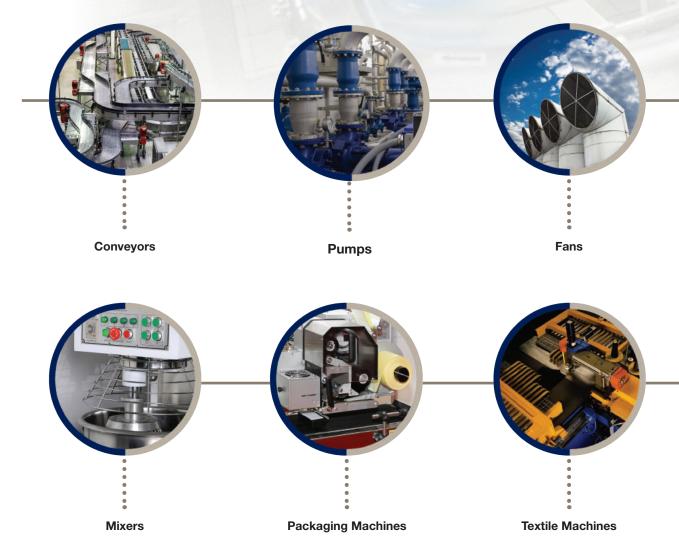
It is available free of charge.

Applications

AC10 provides a no-fuss 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 AC10 include...

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



Technical Characteristics

Power Ratings IP20

230 V Single Phase Input		
Nominal Power [kW]	Output Current [A]	Frame Size
0.2	1.5	1
0.4	2.5	1
0.55	3.5	1
0.75	4.5	1
1.1	5	2
1.5	7	2
2.2	10	2

230 V Three phase Input		
Nominal Power [kW]	Output Current [A]	Frame Size
0.2	1.5	1
0.4	2.5	1
0.55	3.5	1
0.75	4.5	1
1.1	5	2
1.5	7	2
2.2	10	2
4	17	3
5.5	21	4
7.5	30	5
11	40	5
15	55	6

400 V Three phase Input		
Nominal Power [kW]	Output Current [A]	Frame Size
0.2	0.6	1
0.4	1	1
0.55	1.5	1
0.75	2	1
1.1	3	2
1.5	4	2
2.2	6.5	2
3	8	3
4	9	3
5.5	12	3
7.5	17	4
11	23	4
15	32	5
18.5	38	5
22	44	5
30	60	6
37	75	7
45	90	7
55	110	8
75	150	8
90	180	9
110	220	9
132	265	10
160	320	11
180	360	11

Power Ratings IP66

230 V Single Phase Input		
Nominal Power [kW]	Output Current [A]	Frame Size
0.4	2.5	1
0.75	4.5	1
1.5	7	1
2.2	10	1

Power Ratings IP66

230 V Three phase Input		
Nominal Power [kW]	Output Current [A]	Frame Size
0.4	2.5	1
0.75	4.5	1
1.5	7	1
2.2	10	1

400 V Three phase Input		
Nominal Power [kW]	Output Current [A]	Frame Size
0.75	2	1
1.5	4	1
2.2	6.5	1
3	8	1
4	9	1
5.5	12	2
7.5	17	2
11	23	3
15	32	3
18.5	38	4
22	44	4
30	60	4
37	75	5
45	90	5
55	110	5
75	150	6
90	180	6

Electrical Characteristics

Power Supply	220 240 VAC ±15 % Single Phase 220 240 VAC ±15 % Three Phase 380 480 VAC +10 % -15 % Three Phase
Rated Input Frequency	50/60 Hz
Maximum Switching Frequency	10 kHz
Overload	150% of Rated Current for 60s, 200% for 2s
Output Frequency	0.5590 Hz
Switching Frequency	210kHz selectable
Control Mode	Volts/Hertz or Sensorless Vector (SLV) Mode
Earth Leakage Current	>10 mA (all models)

Environmental Characteristics

Temperature range	Operating Temperature: -10+50 °C (derate above 40 °C)
Humidity	Operating humidity: Below 90 % Relative Humidity, non-condensing
Vibration	Below 0.5 g
Altitude	1000 m ASL
Protection Degree	IP20 & IP66
Chemically Active Substances	For the standard product, compliance with EN60271-3-3 is Class 3C3

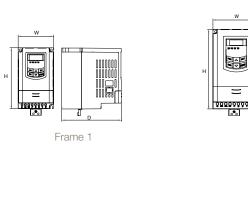
Standards and Compliance

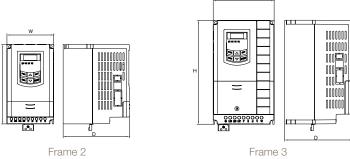
Europe (Full CE Marking)	This product conforms with the Low Voltage Directive 2006/95/EC and Electro-Magnet Compatibility Directive 2004/108/EC.
	Compliant with European Standards EN 61800-5-1:2007 and EN 61800-3:2004+A1:2012 "Adjustable speed electrical power drive systems"
North America (UL)	Complies with the NEC NFPA 70, Underwriters Laboratories (UL) Listed to UL508C (IP20 up to 180 kW, IP66 up to 15 kW)
Canada (ULC)	Complies with the Canadian Electrical Code, Underwriters Laboratories (UL) Listed to CSA 22.2 No. 14 (IP20 up to 180 kW, IP66 up to 15 kW)

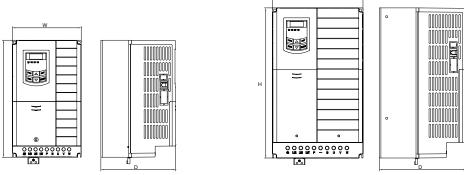
Dimensions IP20

AC10				
Frame	Height (H)	Width (W)	Depth (D)	Weight [kg]
1	138	80	135	1.25
2	180	106	150	1.76
3	235	138	152	2.96
4	265	156	170	4.9
5	340	205	196	7.5
6	435	266	240	17
7	480	315	240	25
8	555	360	265	40
9	630	411	306	55
10	765	516	326	94
11	910	556	342	120

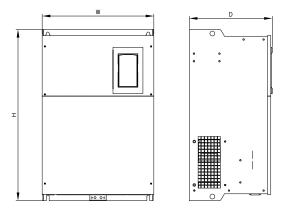
Dimensions [mm]







Frame 4 Frame 5

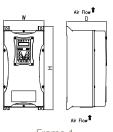


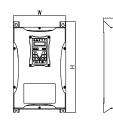
Frames 6-11

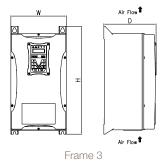
Dimensions IP66

Frame	Height (H)	Width (W)	Depth (D)	Weight [kg]
1	412	200	198	8
2	418	242	198	10
3	471	242	228	13
4	650	242	323.5	28
5	680	308	378.5	39
6	770	370	403.5	67

Dimensions [mm]

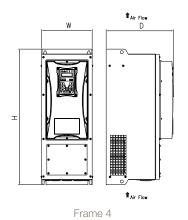


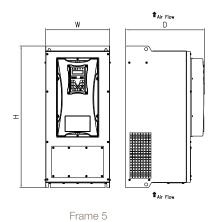


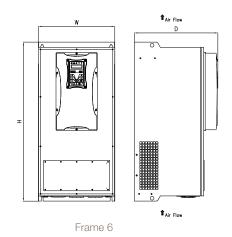


Frame 1

Frame 2







Connections

Terminal	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
В	Braking Resistor
U	Motor Output 1/U
V	Motor Output 2/V
W	Motor Output 3/W

• Analogue Input 1: (0-10V)

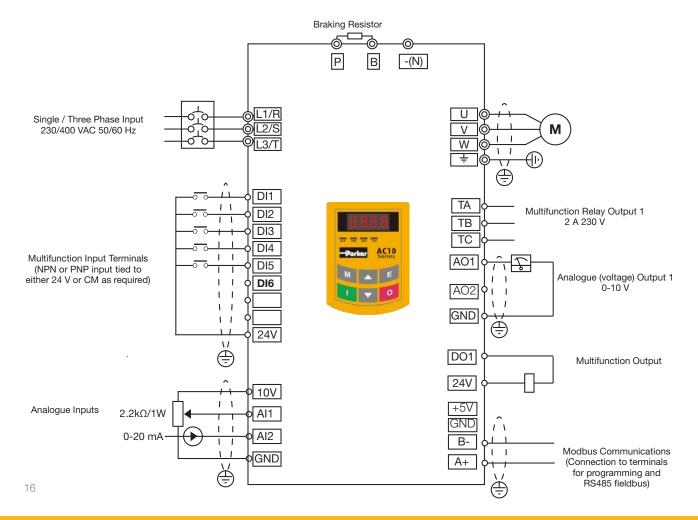
Analogue Input 2: (0-10V, 0-5V, 0-20mA, 4-20mA)

Analogue Outputs: 1x (0-10 V), 1x (0-20 mA)

Digital Inputs: Nominal 24 VDCDigital Outputs: Nominal 24 VDC

• Relay Output 1: Volt free contact, 5 A @230 VAC max.

Terminal	Description
TA	N/O Relay Contact
ТВ	N/C Relay Contact
TC	Relay Common
DO1	Digital Output 1
DO2	Digital Output 2 (Frames 6-11 only)
24V	24 VDC Digital 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
DI7	Digital Input 7 (Frames 6-11 IP20 only)
DI8	Digital Input 8 (Frames 6-11 IP20 only)
10V	10 V Reference supply (max 20 mA)
Al1	Analogue input 1
Al2	Analogue input 2
GND	Power Supply 0 V
AO1	Analogue Output 1
AO2	Analogue Output 2
A+	RS485 Channel A
B-	RS485 Channel B
OV	RS485 Supply
5V	RS485 Supply



Software

Parker Drive System Explorer (DSE) Lite

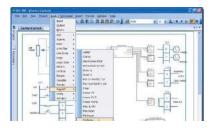
Parker drive configuration software Drive System Explorer (DSE) Lite is an easy to use drive configuration software package, designed to make programming your application as simple as possible without comprimising on functionality.

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, parameterise and configure user defined applications as well as parameterise and connect fixed Motor Control blocks.

It is available free of charge to download from www.parker.com.

Note: requires a clone module or a USB/RS485 adapter to enable connection between PC and drive.





Parker Drive Basic (PDB)

Free Configuration and Diagnostic Monitoring Software

Parker Drive Basic is a monitoring and configuration software tool for use with AC10 Variable Speed Drives. Parker Drive Basic is available as a free download from the Parker 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: requires a clone module or a USB/RS485 adapter to enable connection between PC and drive.





Accessories and Options

IP20 Remote Mounting Keypad

The remote mounting keypad (IP20) can be mounted away from the drive, such as on the door of an electrical enclosure, allowing users to configure, operate and monitor the drive without having to access the drive directly. The remote keypad provides an alternative offering the same functionality as the drive mounted keypad but can be connected to the drive via a 1.5 m cable plugged into the port on the left hand side of the drive.

Order Code	Description
1001-00-00	Remote Keypad
1001-01-00	Extension cable (1.5m)



IP66 Remote Mounting Keypad

The remote mounting keypad (IP66) can be mounted away from the IP66 drive, allowing users to configure, operate and monitor the drive without having to access the drive directly. The remote keypad provides an alternative offering the same functionality as the drive mounted keypad but can be connected to the drive via a 1.5 m cable with IP66 plugs.

Order Code	Description
1601-00-00	Remote Keypad
1602-01-00	Extension cable (1.5m)



Clone Module

AC10 clone module allows users to copy applications between drives and upload / download parameter sets between drives and the PC software.

- Extract parameters from the drive
- Download parameters to a drive
- Connect AC10 to PC
- Copy parameters between drives

Order Code	Description
1002-00-00	Clone Module



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.



Brake resistor selection

Brake resistor assemblies must be rated to absorb both peak braking power during deceleration and the average power over the complete cycle.

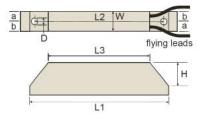
Peak braking power	$= \frac{0.0055J \times (n_1^2 - n_2^2) (W)}{t_b}$
Average braking power Pav	$= \frac{P_{pk} x t_{b}}{t_{c}}$
J: total inertia [kgm²] n ₁ : initial speed [min ⁻¹] n ₂ : final speed [min ⁻¹]	t₀: braking time [s] t₀: cycle time [s]

Resistors above 500 W

Resistors above 500 W are available upon request:

- IP20 protection up to 3 kW
- IP13 protection between 4.2 and 9.8 kW

Model	Resistance	Nom. Power	Dimensions [mm]							
Model	[Ω]	[W]	L1	L2	L3	W	Н	D	а	b
CZ467715	500	60	100	87	60	22	41	4.3	10	12
CZ467714	200	100	165	152	125	22	41	4.3	10	12
CZ389853	100	100	165	152	125	22	41	4.3	10	12
CZ467717	100	200	165	146	125	30	60	4.3	13	17
CZ463068	56	200	165	146	125	30	60	4.3	13	17
CZ388396	36	500	335	316	295	30	60	4.3	13	17
CZ467716	56	500	335	316	295	65	60	4.3	13	17



Overload 5 s: 500 % Overload 3 s : 833 % Overload 1 s: 2500 %

Power Rating	R1 Resistor Order Code	R2 Resistor Order Code	Connected	Minimum resistance	Braking Power
[kW]				[Ω]	[W]
230 V Single Phase	í e				
0,2	CZ467717	-	0	60	200
0,37	CZ467717	-	0———0	60	200
0,55	CZ467717	-	0	60	200
0,75	CZ467717	-	0———0	60	200
1,1	CZ467717	-	0———0	60	200
1,5	CZ467717	-	0———0	60	200
2,2	CZ467717	-	0	60	200
230 V Three Phase					
0,37	CZ467717	-	0———0	60	200
0,55	CZ467717	-	0	60	200
0,75	CZ467717	-	0———0	60	200
1,1	CZ467717	-	0	60	200
1,5	CZ467717	-	0———0	60	200
2,2	CZ467717	-	0———0	60	200
400 V Three Phase					
0,2	CZ467714	-	0———0	200	100
0,37	CZ467714	-	0———0	200	100
0,55	CZ467714	-	0———0	200	100
0,75	CZ467714	-	0	145	100
1,1	CZ467714	-	0	145	100
1,5	CZ467714	-	00	145	100
2,2	CZ467714	-	0	145	100
3	CZ463068	CZ463068	→	95	400
4	CZ463068	CZ463068	О	95	400
5,5	CZ463068	CZ463068	0	95	400
7,5	CZ463068	CZ463068	→	95	400
11	CZ388396	CZ388396	0	60	1000

Note 1: The above resistors are only provided as a guide. Please use our calculation guide to confirm accurate braking resistor requirements.

Note 2: For resistor sizes between 15 kW and 180 kW please contact ssdedcs@parker.com

Output Choke

To reduce capacitive currents and prevent nuisance tripping in installations with longer cable runs over 100m, a choke may be fitted to the drives output in series with the motor.

Order Code	Motor Power Normal Duty [kW]	Choke Inductance [mH]	Current [A _{rms]}	
CO055931	1.1 1.5			
	2.2 3.0	2	7.5	
CO057283	4.0 5.5	0.9	22	
C0057284	7.5 11	0.45	33	
CO057285	15 18	0.3	44	
CO055193	CO055193 22 30		70	
CO055253	37 45	0.05	99	
CO057960 CO387886	55 75	0.05 0.05	243 360	



Note 1: For output chokes over 75 kW please contact ssdedcs@parker.com

EMC Filter

A range of custom designed optional EMC (Electromagnetic Compatibility) filters are available for use with AC10. They are used to help achieve conformance with EMC directive BS EN61800-3.

AC10 can be ordered with an EMC filter fitted that meets the requirements of a class C3 environment. For class C2 or C1 environments, please contact your local sales office.

Order Code

AC10 IP20

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

Orde	er exa	тріе	10 G - 1							
	Dovice Family									
1		Device Family								
	10									
2		ustry								
	G	General Purpose								
3		oltage								
	1		230 V Single Phase							
	3		230 V Three Phase							
	4		400 V Three Phase							
4&5		Frame Size & Rating								
	230 V Supply									
	1	0015	0.2 kW							
	1	0025	0.37 kW							
	1	0035	0.55 kW							
	1	0045	0.75 kW							
	2	0050	1.1 kW							
	2	0070	1.5 kW							
	2	0100	2.2 kW							
	3	0170	4.0 kW							
	4	0210	5.5 kW							
	5	0300	7.5 kW							
	5	0400	11 kW							
	6	0550	15 kW							
		V Supply								
	1	0006	0.2 kW							
	1	0010	0.37 kW							
	1	0015	0.55 kW							
	2	0020	0.75 kW							
	2	0030	1.1 kW							
	2	0040	1.5 kW							
	2	0040	2.2 kW							
	3	0080	3.0 kW							
	3	0090	4.0 kW							
			5.5 kW							
	3	0120 0170	7.5 kW							
	4	0230	11 kW							
	5	0320	15 kW							
	5	0380	18.5 kW							
	5	0440	22 kW							
	6	0600	30 kW							
	7	0750	37 kW							
	7	0900	45 kW							
	8	1100	55 kW							
	8	1500	75 kW							
	9	1800	90 kW							
	9	2200	110 kW							
	10	2650	132 kW							
	11	3200	160 kW							
	11	3600	180 kW							
6	Bra	king Mo								
	В	B Braking Module Fitted								
7	EM	EMC Filter								
	N		No Filter Fitted							
22	F		C3 EMC Filter Fitted							

Visit the Paker website to full configure the options available for AC10, generate the correct product code and to find out where to buy.

www.parker.com/ssd/ac10

Order Code

AC10 IP66

	1	2		3	4		5		6	7
Order example	16	G	-	1	1	-	0015	-	В	N

1	Device Family							
	16	6 AC10 IP66 Variable Speed Drive						
2	Industry							
	G	General Purpose						
3	Volt	/oltage						
	1		230 V Single Phase					
	3		230 V Three Phase					
	4		400 V Three Phase					
4&5	Frame Size & Rating							
	230							
	1	0025	0.4 kW					
	1	0045	0.75 kW					
	1	0070	1.5 kW					
	1	0100	2.2 kW					
	400	V Supply						
	1	0020	0.75 kW					
	1	0040	1.5 kW					
	1	0065	2.2 kW					
	1	0080	3.0 kW					
	1	0090	4.0 kW					
	2	0120	5.5 kW					
	2	0170	7.5 kW					
	3	0230	11 kW					
	3	0320	15 kW					
	4	0380	18.5 kW					
	4	0440	22 kW					
	4	0600	30 kW					
	5	0750	37 kW					
	5	0900	45 kW					
	5	1100	55 kW					
	6	1500	75 kW					
	6	1800	90 kW					
6		king Mod						
	В		Braking Module Fitted					
7		C Filter*						
	N	No Filter Fitted						
	F		C3 EMC Filter Fitted					

*55 kW, 75 kW and 90 kW IP66 versions come with EMC filter as standard.

Visit the Paker website to full configure the options available for AC10, generate the correct product code and to find out where to buy.

www.parker.com/ssd/ac10

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