



Low voltage AC drives

# ABB general purpose drives ACS580 0.75 to 500 kW Catalog

# What does all-compatible mean for you?

The idea behind all-compatible is simple: the better a drive fits to your processes, users and business and environmental goals, the faster you start enjoying the benefits it brings.

During drive selection, you save time as the drives have many built-in features simplifying the selection process. A broad range of options provides easy extension to the drive's functionality. The simplicity carries on to the drive setup and commissioning. With a state of the art user interface and drive design, installation and setup is made easy and optimal.

The total cost of ownership and your impact on the environment is lower with the drives ensuring your processes run efficiently and reliably. The control panel and PC tool enable you to monitor and analyze the drives. As a result, you can fine-tune them to get more out of the drives and process using less energy.

The ACS580 is part of ABB's all-compatible drives portfolio. The ACS580 and other all-compatible drives share the same architecture and user interfaces, yet there is an optimal drive for virtually any application.

Once you have used one all-compatible drive, you can use them all. Your knowledge accumulates with each new installation, resulting in more efficient processes and business.

That's it. In short, all-compatible means better business sense.

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Energy savings that will  
bring a smile to your face



# The all-compatible ACS580 general purpose drives

The ACS580 is an all-compatible ABB general purpose drive, with offering of wall-mounted drives and drive modules for cabinet installations. It turns complicated to simple to control processes efficiently.

The drive controls a wide range of applications in different industries, and yet it requires very little setting up or commissioning. The control panel's primary settings menu with assistants provide you a smart and quick way to commission the drive and get it into action. All the essential features are built-in as standard, which reduces the need for additional hardware and simplifies drive selection. The drive is ready to control pumps, fans, conveyors, mixers and many other variable and constant torque applications.

## The wall-mounted drives series

The wall-mounted drives are available with IP21, as well as IP55, UL Type 12 protection class which is designed for applications exposed to dust, moisture, vibrations, and other harsh environments. The very compact IP55 protection over the whole power range is optimized to match the size of IP21 drives, with only depth increasing. The IP55 drive provides significant savings in space, maintenance, engineering, material costs, as well as in setup and commissioning time.

## The drive module series

The ACS580 drive module for cabinet installations extends the effortless energy efficiency and simplicity in drive operation

to broader power range. The module features a robust IP00 construction, an advanced pedestal system and ramp for quick and easy cabinet installation, resulting in reduced setup and commissioning time. As all the essential features are built into the drive module as standard, the need for external components, extra cabling and space requirements is reduced to minimum.

## The cabinet-built drives series

The compact, all-in cabinet design provides users with harmonized connections and built-in safety functionality. The cabinet installations have several IP classes available as well as the assistant control panel as standard.

What if you require even more flexibility? You can choose the next member of the all-compatible drives portfolio, such as the ACS880 industrial drives. The drives share the same user interfaces and options, enabling you to use the knowledge you have gained with the ACS580 drives. You increasingly keep saving time. And saving time in business means saving money and improving profit potential.

Simple is beautiful. And now, simple is also profitable.

Advanced energy efficiency  
with effortless simplicity



# Switch on simplicity without trading off efficiency

## Startup and maintenance tool

Drive composer PC tool for startup, configuration, monitoring and process tuning. PC tool is connected to the drive's control panel via USB interface.



## Simple to select, install and use

Built-in features such as an EMC filter, a Modbus RTU fieldbus interface and safe torque off functionality simplify drive selection, installation and use.



## Simplicity at your fingertips

The control panel's straightforward primary settings menu with assistants help you set up the drive quickly and effectively.

## Boosting energy efficiency

Energy optimizer and energy efficiency information help you monitor and save the energy used in your process.

## Supporting your business

By choosing an all-compatible drive from ABB, you also get a wide range of products and services to support your business and decades of experience in various industries.



The ACS580 general purpose drives are part of ABB's all-compatible drives portfolio. The drives promise you effortless energy efficiency throughout their whole life cycle.

The ACS580 drive practically guides you to set itself up. With built-in assistant functionality the user answers to questions in the selected language to set up the drive, and then the drive is fully operational.

After commissioning, the next time you will remember you own the drive is when you take a look at your new, lower energy bill.



**Communication with all major automation networks**

Optional fieldbus adapters enable connectivity with all major industrial automation networks.



**Input/output extensions**

In addition to the standard interfaces, the drive has built-in slot for additional input/output extension modules.



**Reliable, integrated safety**

ATEX certified thermistor protection module option CPTC-02 provides enhanced process safety and easy, simplified installation.

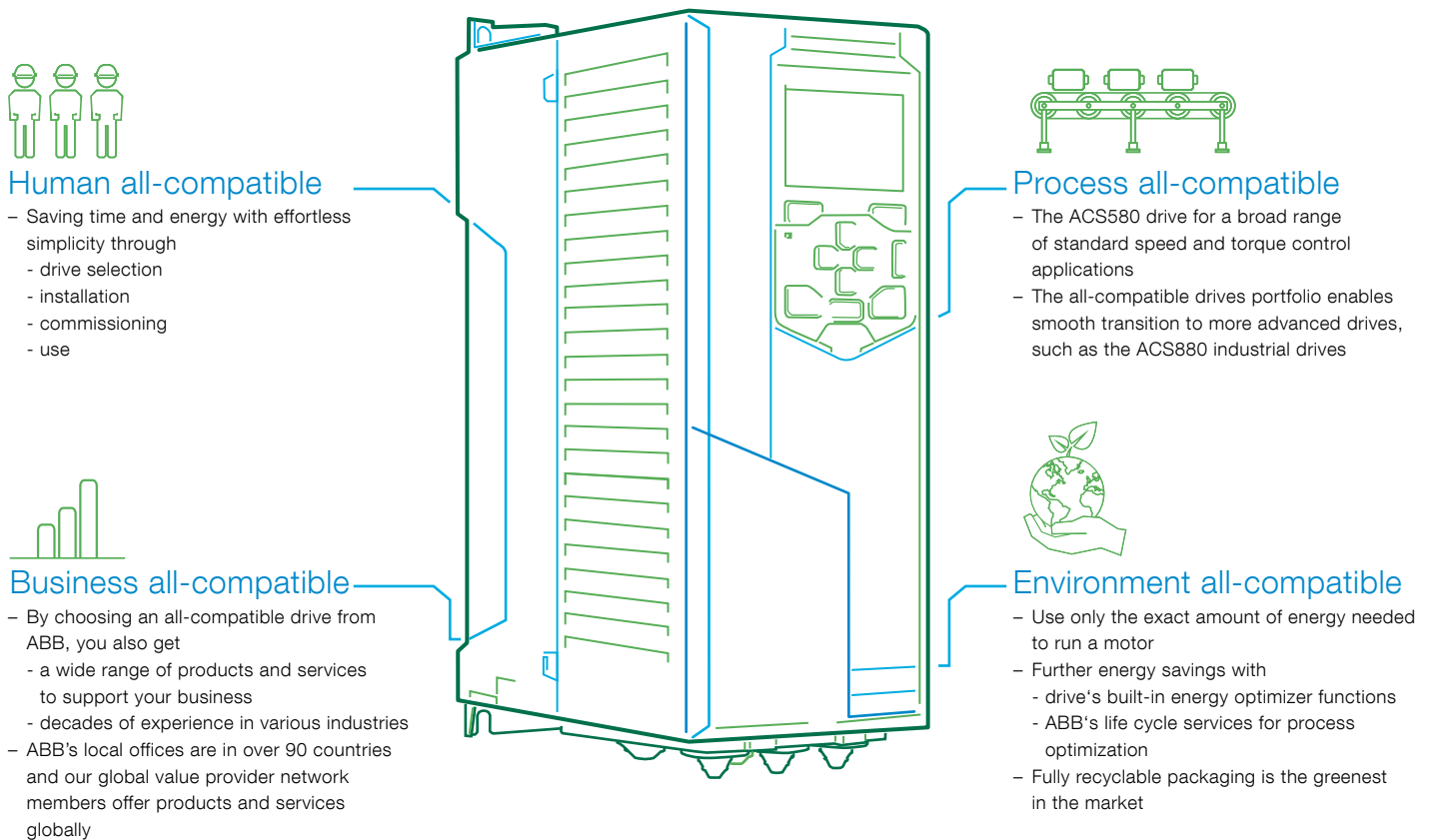


**Remote monitoring**

With a built-in web server and stand-alone datalogger, NETA-21 enables worldwide and secure access to drives.

# The all-compatible match

ACS580 general purpose drive is part of ABB's all-compatible drives portfolio designed to offer not only a technically compatible drive, but an all-compatible solution for people, process, business and environmental goals.



## Simple to select and install

- All-inside concept simplifies drive selection and installation, saving time and money.
- Stock availability ensured globally with readily stocked product by ABB and distributors.

## Simple to commission and use

- No need to know parameters or use any programming language
- Quick setup ensured by
  - the primary settings menu with embedded assistants
  - ready-made control macros
- Commission and monitor drive wirelessly
  - with optional Bluetooth assistant control panel

## Reliable and consistent high quality

- Improved durability and reliability in harsh environmental conditions
  - coated boards as standard in drives and all options
- All drives tested in the production
  - in maximum temperature
  - with nominal loads
  - with full testing of the performance and all protective functions with motors

## Reducing life cycle costs

- The purchase cost of a drive is only a fraction of the cost a drive can save during its life cycle
  - Energy savings achieved with drive control
  - Reduced maintenance and operational costs





## The versatile drive for a broad range of applications

The ACS580 general purpose drive is designed to control a broad range of variable and constant torque applications such as pumps, fans, conveyors and mixers as well as for process control in different industries. The drive is equipped with built-in features that simplify ordering and delivery, and reduce commissioning costs since everything is provided in a single, compact and ready-to-use package.

### All the essential features built-in

The ACS580-01 wall-mounted drive provides reduced harmonics with built-in second generation swinging choke technology. Other built-in features include EMC filter, brake chopper up to frame R3, Modbus RTU fieldbus interface and dual channel SIL3 safe torque off (STO). The ACS580-04 drive modules as well as ACS580-07 cabinet-built drives include safe torque off (STO), the intuitive control panel with USB connection and panel mounting platform as standard. The drive and all options have coated circuit boards as standard improving durability in harsh environmental conditions.

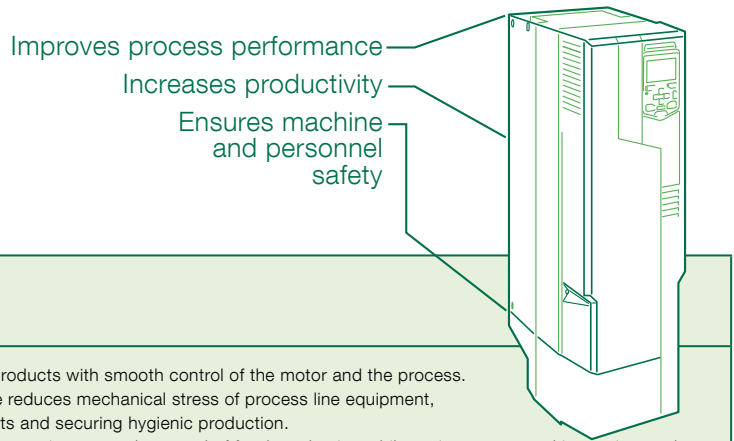
### Easy to use control panel and PC tool


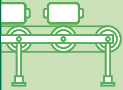







The control panel and PC tool provide easy drive setup, commissioning and maintenance. The control panel's settings menu with many built-in assistants speed up commissioning, while the Drive composer PC tool offers extensive drive monitoring and process tuning capabilities.

### Boosting energy efficiency

The built-in energy efficiency calculators, including used and saved kWh, CO<sub>2</sub> reduction and money saved, help users fine-tune processes to ensure optimal energy use. The energy optimizer control mode ensures the maximum torque per ampere, reducing energy drawn from the supply. The drive fulfills the highest IE2 drive (EN 50598-2) energy efficiency class and is compatible with high-efficiency IE4 motors, further reducing total life cycle costs. And the built-in energy efficiency calculators help you to analyze and optimize processes.

# Typical applications



INDUSTRY	APPLICATION	CUSTOMER BENEFITS
 <b>Food and beverage</b>	Blowers, centrifuges, compressors, conveyors, fans, mills, pumps, separators	<ul style="list-style-type: none"> <li>– Enhanced quality of end products with smooth control of the motor and the process.</li> <li>– Robust design of the drive reduces mechanical stress of process line equipment, lowering maintenance costs and securing hygienic production.</li> <li>– Accurate control of the process increases the speed of food production while saving energy and improving work safety. Precise speed and torque control increases production uptime even when the load is varying.</li> <li>– Increased starting torque with boost function.</li> <li>– Safe torque off (SIL 3) function ensures machine and personnel safety.</li> <li>– Additional energy and water savings with energy optimizer function and flexible control setups help reduce operating expenses and improve environmental image.</li> <li>– ATEX certified thermistor protection module.</li> </ul>
 <b>Material handling</b>	Compressors, conveyors, fans, pumps	<ul style="list-style-type: none"> <li>– Accurate and precise speed and torque control increases production uptime even when the load is varying.</li> <li>– Built-in counters for additional energy savings and preventive maintenance.</li> <li>– Safe torque off (SIL 3) function ensures machine and personnel safety.</li> <li>– Connectivity to any public network with plug-in fieldbus options.</li> <li>– Minimized downtime with robust and reliable design.</li> </ul>
 <b>Printing</b>	Compressors, presses, winders	<ul style="list-style-type: none"> <li>– Smooth acceleration to prevent breaking the paper.</li> <li>– Robust design of the drive reduces mechanical stress of process line equipment, lowering maintenance costs and capital expenditure.</li> <li>– Precise speed and torque control of applications increases process uptime by optimizing motor control.</li> </ul>
 <b>Rubber and plastics</b>	Extruders, injection molding machines, pumps	<ul style="list-style-type: none"> <li>– The design without derating up to +50 °C ambient (R0-R3), providing wide operation temperatures.</li> <li>– Smooth acceleration to prevent breaking the web of plastic film.</li> <li>– Multilingual assistant control panel for global use.</li> <li>– Wide product offering for further process optimization.</li> <li>– Worldwide certificates, support and service with niche knowledge in domain applications.</li> </ul>
 <b>Textile</b>	Bleaching machines, compressors, conveyors, drum washers, extruders, fans, jet dyeing machines, pumps, stenter machines, stretchers, winders	<ul style="list-style-type: none"> <li>– Precise speed or torque control for high stretching accuracy and better quality of end product.</li> <li>– Adjustable torque limit to prevent damage to mechanical equipment.</li> <li>– Adjustable accel/decel ramps to improve pump control.</li> <li>– Real-time clock and timed functions for process optimization.</li> <li>– Increased productivity and faster payback times with multiple setups, allowing production of two different products.</li> <li>– Built-in counters for additional energy savings and preventive maintenance.</li> </ul>
 <b>Sawmill</b>	Chippers, conveyors, debarkers, dryers, pickers, stackers	<ul style="list-style-type: none"> <li>– IP55/UL 12 available up to 250 kW 400 V and high enclosure rating for harsh environments.</li> <li>– Cabinet-built drive IP54 up to 500 kW.</li> <li>– Flexible speed and torque settings increase productivity.</li> <li>– Safe torque off (SIL 3) function ensures machine and personnel safety.</li> <li>– Minimized downtime with robust and reliable design.</li> </ul>
 <b>Water handling</b>	Compressors, pump stations	<ul style="list-style-type: none"> <li>– Additional energy savings with energy optimizer function.</li> <li>– Stable process with smooth and continuous flow and pressure control.</li> <li>– Adjustable accel/decel ramps to improve pump control.</li> <li>– Minimized downtime with robust and reliable design.</li> <li>– ABB's extensive product and service offering for comprehensive process optimization.</li> </ul>
 <b>Agriculture</b>	Fans, irrigators, pumps, sorters	<ul style="list-style-type: none"> <li>– IP55/UL 12 available up to 250 kW 400 V and high enclosure rating for harsh environments.</li> <li>– Wall-mounted power range up to 250 kW.</li> <li>– The drive modules and cabinet-built drives up to 500 kW.</li> <li>– The drives operate even on varying loads without tripping, providing faster diagnostics and less nuisance trips.</li> </ul>
 <b>Automotive</b>	Conveyors, fans, pumps	<ul style="list-style-type: none"> <li>– ATEX certified thermistor protection module.</li> <li>– Increased productivity and faster payback times with multiple setups.</li> <li>– Enhanced quality of end products with smooth control of the motor and process.</li> <li>– Safe torque off (SIL 3) function ensures machine and personnel safety.</li> <li>– Wide range of fieldbus networks supported, including PROFIBUS and PROFINET IO.</li> <li>– P55/UL 12 available up to 250 kW 400 V and high enclosure rating for harsh environments.</li> <li>– Robust design of the drive reduces mechanical stress of process line equipment, lowering maintenance costs and securing high production quality.</li> </ul>



# High protection class drive for better return on investment

## Drives for harsh environment applications

A range of ABB general purpose drives with IP55, UL Type 12 protection is perfect for light industrial applications such as pumps, fans and conveyors exposed to dust, moisture, vibrations, and other harsh environments. The drive is similar in size to the compact IP21 drives, which provides very compact IP55 protection over the whole wall-mounted power range for various harsh environment applications. Typical industries that benefit from the drive include food and beverage, textile, printing and rubber and plastics.

## Many benefits to improve reliability

The robust and protective design ensures that no additional enclosures or components, such as filters and fans are needed, which enables straightforward installation on to the wall. In some cases shorter motor cabling is needed, reducing installation costs. The wall-mounted ACS580-01 IP55 drive guarantees safety of the machines and personnel while leading to savings in space, maintenance, engineering and material costs, as well as in setup and commissioning time. Overall, the harsh protection drives provide smaller capital expenses by avoiding or advancing maintenance of external components, which in turn improves the reliability of the drive and the process.



**ACS580-01 general purpose drives with IP55 enclosure variant for harsh environments offer a broad power range from 0.75 to 250 kW, and voltage range from 208 to 480 V. The complete offering includes frame sizes R0, R1, R2, R3, R4, R5, R6, R7, R8 and R9.**



# Extending the effortless energy efficiency to cabinet installations

## The drive module series

The ACS580 general purpose drive module for cabinet installations extends the effortless energy efficiency and simplicity in drive operation to broader power range from 250 to 500 kW. Same software features throughout the ACS580 portfolio ensure simplified drive operation from small drive units to larger drive modules. All-inside concept integrates control unit to drive module, which together with an advanced pedestal system and ramp ensure that modules are ready for quick and easy installation, reducing time for setup and commissioning.

As standard, the module features a robust IP00 construction with coated circuit boards as standard for improved reliability, and is delivered with a control panel mounting kit for cabinet door. The drive module provides reduced harmonics with built-in choke, and is delivered with preconfigured EMC C3 class filter and common mode filter options. Compact drive modules offer significant power density. The drive modules are also designed for standardized installation with ready part lists and easy installation instructions. As all the essential features are built into the drive module as standard, the need for external components, extra cabling and space requirements is reduced to minimum.

## Main features for drive module series

- Enclosure class IP00 as standard
- Power supply coming from the top part of the module and motor connection out from the lower part of the cabinet, enabling more optimal cabinet design with reduced cabling work and cabinet space
- Easy installation, commissioning and maintenance with pedestal on wheels and ramp
- Integrated safety including safe torque off (STO) as standard
- Supports various motor types including induction motors, permanent magnet motors and synchronous reluctance motors (SynRM)
- Intuitive control panel with USB connection and DPMP-03 panel mounting platform
- Redundant fans that enable the process to run in part load even with one fan only running
- Built-in choke as standard for input harmonics reduction

## The cabinet-built drives series

The ACS580 general purpose drives offering is completed also with the cabinet installed drives from 75 to 500 kW. They have several IP classes available as well as EMC filters as standard.

## Main features for cabinet-built drives series

- Global cabinet design with high quality standard
- New cooling arrangement
- Product offering with application specific options
- Easy installation, commissioning and maintenance
- All the drive module options and features are also available for the cabinet-built series



ACS580-04 drive modules with IP00 protection class extend the power range from 250 to 500 kW, and voltage range from 380 to 480 V. The modules are available in frame sizes R10 and R11. ACS580-07 cabinet-built drives (from 75 to 500 kW, and voltage range from 380 to 480 V) have the IP21 protection class as standard and IP42/54 as options in frame sizes R6–R9. IP42 protection class is as standard in frame sizes R10–R11.

# How to select a drive

It is very easy to select the right drive.

This is how you build up your own ordering code using the type designation key.

**1 Start with identifying your supply voltage.** This tells you what rating table to use. See pages 16, 17 and 18.

**2 Choose your motor's power and current rating** from the ratings table on pages 16, 17 and 18.

**4 Choose your options** (on pages 21, 22, 23 and 24) and add the option codes to drive's ordering code. Remember to use a "+" mark before each option code.

Ratings, types and voltages  
Wall-mounted drives, ACS580-01 and drive modules, ACS580-04

Supply voltage	Rated power	Rated current	Rated speed	Type designation	Frame size
0.4 kV	0.75	1.6	1430	ACS580-01-02A6-4	03
0.4 kV	1.1	2.5	1430	ACS580-01-03A4-4	03
0.4 kV	1.5	3.3	1430	ACS580-01-04A0-4	03
0.4 kV	2.2	4.8	1430	ACS580-01-05A6-4	03
0.4 kV	3.0	6.6	1430	ACS580-01-07A2-4	03
0.4 kV	4.0	9.0	1430	ACS580-01-09A4-4	03
0.4 kV	5.5	12.5	1430	ACS580-01-12A6-4	03
0.4 kV	7.5	17.0	1430	ACS580-01-17A4-4	03
0.4 kV	11.0	25.0	1430	ACS580-01-25A4-4	03
0.4 kV	15.0	33.0	1430	ACS580-01-32A6-4	03
0.4 kV	22.0	48.0	1430	ACS580-01-48A0-4	03
0.4 kV	30.0	66.0	1430	ACS580-01-66A0-4	03
0.4 kV	40.0	90.0	1430	ACS580-01-90A0-4	03
0.4 kV	55.0	125.0	1430	ACS580-01-150A4-4	03
0.4 kV	75.0	170.0	1430	ACS580-01-225A4-4	03
0.4 kV	110.0	250.0	1430	ACS580-01-375A4-4	03
0.4 kV	150.0	330.0	1430	ACS580-01-525A4-4	03
0.4 kV	220.0	480.0	1430	ACS580-01-720A4-4	03
0.4 kV	300.0	660.0	1430	ACS580-01-900A4-4	03
0.4 kV	400.0	900.0	1430	ACS580-01-1260A4-4	03
0.4 kV	550.0	1250.0	1430	ACS580-01-1800A4-4	03
0.4 kV	750.0	1700.0	1430	ACS580-01-2700A4-4	03
0.4 kV	1100.0	2500.0	1430	ACS580-01-3750A4-4	03
0.4 kV	1500.0	3300.0	1430	ACS580-01-5250A4-4	03
0.4 kV	2200.0	4800.0	1430	ACS580-01-7200A4-4	03
0.4 kV	3000.0	6600.0	1430	ACS580-01-9000A4-4	03
0.4 kV	4000.0	9000.0	1430	ACS580-01-12600A4-4	03
0.4 kV	5500.0	12500.0	1430	ACS580-01-18000A4-4	03
0.4 kV	7500.0	17000.0	1430	ACS580-01-27000A4-4	03

P <sub>N</sub> kW	I <sub>N</sub> A
0.75	2.6
1.1	3.3
1.5	4
2.2	5.6
3	7.2
4	9.4
5.5	12.6
7.5	17
11	25
15	32
18.5	38
22	45
30	62
37	73
45	87
55	105
75	145
90	169
110	206
132	246
160	293
200	363
250	430
250	505
315	585
355	650
400	725
450	820
500	880

Pages 16, 17 and 18

**3 Select your drive's ordering code** from the rating table based on your motor's nominal power rating.

Ratings, types and voltages  
Wall-mounted drives, ACS580-01 and drive modules, ACS580-04

Supply voltage	Rated power	Rated current	Rated speed	Type designation	Frame size
0.4 kV	0.75	1.6	1430	ACS580-01-02A6-4	03
0.4 kV	1.1	2.5	1430	ACS580-01-03A4-4	03
0.4 kV	1.5	3.3	1430	ACS580-01-04A0-4	03
0.4 kV	2.2	4.8	1430	ACS580-01-05A6-4	03
0.4 kV	3.0	6.6	1430	ACS580-01-07A2-4	03
0.4 kV	4.0	9.0	1430	ACS580-01-09A4-4	03
0.4 kV	5.5	12.5	1430	ACS580-01-12A6-4	03
0.4 kV	7.5	17.0	1430	ACS580-01-17A4-4	03
0.4 kV	11.0	25.0	1430	ACS580-01-25A4-4	03
0.4 kV	15.0	33.0	1430	ACS580-01-32A6-4	03
0.4 kV	22.0	48.0	1430	ACS580-01-48A0-4	03
0.4 kV	30.0	66.0	1430	ACS580-01-66A0-4	03
0.4 kV	40.0	90.0	1430	ACS580-01-90A0-4	03
0.4 kV	55.0	125.0	1430	ACS580-01-150A4-4	03
0.4 kV	75.0	170.0	1430	ACS580-01-225A4-4	03
0.4 kV	110.0	250.0	1430	ACS580-01-375A4-4	03
0.4 kV	150.0	330.0	1430	ACS580-01-525A4-4	03
0.4 kV	220.0	480.0	1430	ACS580-01-720A4-4	03
0.4 kV	300.0	660.0	1430	ACS580-01-900A4-4	03
0.4 kV	400.0	900.0	1430	ACS580-01-1260A4-4	03
0.4 kV	550.0	1250.0	1430	ACS580-01-1800A4-4	03
0.4 kV	750.0	1700.0	1430	ACS580-01-2700A4-4	03
0.4 kV	1100.0	2500.0	1430	ACS580-01-3750A4-4	03
0.4 kV	1500.0	3300.0	1430	ACS580-01-5250A4-4	03
0.4 kV	2200.0	4800.0	1430	ACS580-01-7200A4-4	03
0.4 kV	3000.0	6600.0	1430	ACS580-01-9000A4-4	03
0.4 kV	4000.0	9000.0	1430	ACS580-01-12600A4-4	03
0.4 kV	5500.0	12500.0	1430	ACS580-01-18000A4-4	03
0.4 kV	7500.0	17000.0	1430	ACS580-01-27000A4-4	03

Pages 16, 17 and 18

Type designation

ACS580-01-02A6-4
ACS580-01-03A4-4
ACS580-01-04A0-4
ACS580-01-05A6-4
ACS580-01-07A2-4
ACS580-01-09A4-4
ACS580-01-12A6-4
ACS580-01-17A4-4
ACS580-01-25A4-4
ACS580-01-32A6-4
ACS580-01-48A0-4
ACS580-01-66A0-4
ACS580-01-90A0-4
ACS580-01-150A4-4
ACS580-01-225A4-4
ACS580-01-375A4-4
ACS580-01-525A4-4
ACS580-01-720A4-4
ACS580-01-900A4-4
ACS580-01-1260A4-4
ACS580-01-1800A4-4
ACS580-01-2700A4-4
ACS580-01-3750A4-4
ACS580-01-5250A4-4
ACS580-01-7200A4-4
ACS580-01-9000A4-4
ACS580-01-12600A4-4
ACS580-01-18000A4-4
ACS580-01-27000A4-4

Effortless drive commissioning and use with control panel

Almost anyone can set up and commission the drive using the assistant control panel. You do not need to know any drive parameters as the control panel helps you to set up the essential settings quickly and get the drive into action.

**Effortless drive setup**

- The primary settings menu with embedded assistants provides a start-of-the-apple way to set up the drive.
- Each setting is clearly named by its function, such as motor, stop or start settings.

**Effortless process monitoring**

- One glance at the control panel's editable home view will show you the status of the drive and process. It offers many data visualizations including bar charts, histograms and trend graphs.
- See how the electrical terminals are configured, what is the actual status and get quick access to the related settings from the I/O menu.
- Add information e.g. to I/O signals, customize fault and warning messages or give the drive a unique name with the panel's hot editor.
- Connect the PC tool to the drive through the USB connector on the control panel.

**Effortless drive maintenance**

- Faults or warnings are quickly resolved as the help key provides context sensitive guidance and troubleshooting instructions.
- Powerful manual and automatic fault and restore functions (soft limit, data and restore).

**Control panel options**  
Assistant control panel ACS-AP-S is included as standard in the delivery unless otherwise specified.

Option code	Description	Type designation
+J452	Assistant control panel*	ACS-AP-S
+J454	Control panel with Bluetooth interface	ACS-AP-W
+J454	Blank control panel cover (no control panel delivered)	CCUM-01
3AX505000004174	Panel bus adapter (no control panel delivered)	CSBP-01
3ALA4000109878	Control panel mounting platform (flush mounted, requires also panel bus adapter on the drive)	DPMP-01
3AX505000000374	Control panel mounting platform (surface mounted, requires also panel bus adapter on the drive)	DPMP-02
3AX505000016230	Control panel mounting platform option, only for ACS580-04 modules	DPMP-03
3AX505000010763	Door mounting kit for the panel (for one drive, compatible both DPMP-02 and CSBP-01)	DPMP-EXT

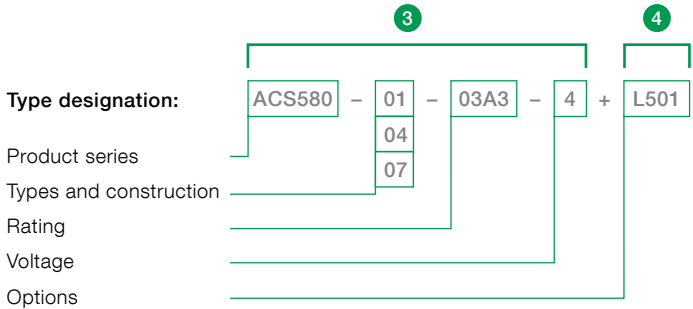
\* Also compatible with ACS580 drives.

Control panel options  
Assistant control panel ACS-AP-S is included as standard in the delivery unless otherwise specified.

Option code	Description	Type designation
+J452	Assistant control panel*	ACS-AP-S
+J454	Control panel with Bluetooth interface	ACS-AP-W
+J454	Blank control panel cover (no control panel delivered)	CCUM-01
3AX505000004174	Panel bus adapter (no control panel delivered)	CSBP-01
3ALA4000109878	Control panel mounting platform (flush mounted, requires also panel bus adapter on the drive)	DPMP-01
3AX505000000374	Control panel mounting platform (surface mounted, requires also panel bus adapter on the drive)	DPMP-02
3AX505000016230	Control panel mounting platform option, only for ACS580-04 modules	DPMP-03
3AX505000010763	Door mounting kit for the panel (for one drive, compatible both DPMP-02 and CSBP-01)	DPMP-EXT

\* Also compatible with ACS580 drives.

Pages 21, 22, 23 and 24





# Technical data

## Mains connection

<b>Voltage and power range</b>	3-phase, $U_N$ 380 to 480 V, +10%/-15% ACS580-01: from 0.75 up to 250 kW ACS580-04: from 250 up to 500 kW ACS580-07: from 75 up to 500 kW
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**Frequency** 50/60 Hz  $\pm 5\%$

**Power factor**  $\cos\varphi = 0.98$

**Efficiency (at nominal power)** 98%

## Motor connection

**Voltage** 0 to  $U_N$ , 3-phase

**Frequency** 0 to 500 Hz

**Motor control** Scalar and vector control

**Torque control** Torque step rise time:  
<10 ms with nominal torque  
Non-linearity:  
 $\pm 5\%$  with nominal torque

**Speed control** Static accuracy:  
20% of motor nominal slip  
Dynamic accuracy:  
1% seconds with 100% torque step

## Product compliance

CE

Low Voltage Directive 2006/95/EC, EN 61800-5-1: 2007  
Machinery Directive 2006/42/EC, EN 61800-5-2: 2007  
EMC Directive 2004/108/EC, EN 61800-3: 2004 + A1: 2012  
RoHS directive 2011/65/EU  
ACS580-07 (R10–R11) CE

Quality assurance system ISO 9001 and Environmental system  
ISO 14001

Waste electrical and electronic equipment directive (WEEE) 2002/96/EC

RoHS directive 2011/65/EU

EAC

## EMC according to EN 61800-3: 2004 + A1: 2012

ACS580-01 wall-mounted drives (frames R0 to R9) and ACS580-07 cabinet-built drives (frames R6 to R9) with built-in C2 category filter as standard

ACS580-04 drive modules and ACS580-07 cabinet-built drives with preconfigured built-in C3 category filter option (frames R10 and R11)

## Environmental limits

### Ambient temperature

Transport -40 to +70 °C

Storage -40 to +70 °C

Operation area  
ACS580-01: -15 to +50 °C. No frost allowed.  
R4 to R9 from +40 to +50 °C with derating  
ACS580-04: -15 to +55 °C. No frost allowed.  
R10 to R11 from +40 to +55 °C with derating  
ACS580-07: 0 to +40 °C. No frost allowed  
R6 to R11 from +40 to +50 °C with derating

### Cooling method

Air-cooled Dry clean air

### Altitude

0 to 1,000 m Without derating

1,000 to 4,000 m With derating of 1%/100 m

**Relative humidity** 5 to 95%, no condensation allowed

**Degree of protection** ACS580-01: IP21 as standard, IP55 as an optional variant (frames R0 to R9)  
ACS580-04: IP00 as standard, IP20 with option (frames R10 to R11)  
ACS580-07: Cabinet-built frames  
R6 to R9: IP21 as standard, IP42 and IP54 as options. Cabinet-built frames R10 to R11: IP42 as standard and IP54 as option

### Functional safety

Safe torque off  
(STO according EN 61800-5-2)  
IEC 61508 ed2: SIL 3, IEC 61511: SIL 3,  
IEC 62061: SIL CL 3, EN ISO 13849-1: PL e

**Contamination levels** No conductive dust allowed

**Storage** IEC 60721-3-1, Class 1C2 (chemical gases),  
Class 1S2 (solid particles)\*

**Operation** IEC 60721-3-3, Class 3C2 (chemical gases),  
Class 3S2 (solid particles)\*

**Transportation** IEC 60721-3-2, Class 2C2 (chemical gases),  
Class 2S2 (solid particles)\*

\* C = chemically active substances

S = mechanically active substances

# Dimensions

## ACS580-01

Frames IP21	Height		Width		Depth		Weight		
	H1** (mm)	H2*** (mm)	in	mm	in	mm	in	kg	lb
R0	303	303	11.9	125	4.9	210	8.3	4.5	9.9
R1	303	303	11.9	125	4.9	223	8.8	4.6	10
R2	394	394	15.5	125	4.9	227	8.9	7.5	16.6
R3	454	454	17.9	203	8	228	9	14.9	32.8
R4	600	600	23.62	203	8	258	10.16	19.0	43
R5*	732	596	29.4	203	8	295	11.6	28.5	62.4
R6	727	549	28.6	252	9.9	369	14.5	45	99.2
R7	880	601	34.6	284	11.2	370	14.6	54	119.1
R8	965	677	38	300	11.8	393	15.5	69	152.2
R9	955	680	37.6	380	15	418	16.5	97	213.9

\* Valid for the type codes ACS580-01-088A-4 and ACS580-01-106A-4

\*\* Front height of the drive with glandbox

\*\*\* Front height of the drive without glandbox



## ACS580-01+B056

Frames IP55	Height**		Width		Depth		Weight	
	mm	in	mm	in	mm	in	kg	lb
R0	303	11.9	125	4.9	222	8.74	5.1	11.16
R1	303	11.9	125	4.9	233	9.17	5.5	12.08
R2	394	15.5	125	4.9	239	9.41	7.8	17.22
R3	454	17.9	203	8	237	9.33	15.1	33.32
R4	600	23.62	203	8	265	10.16	20	44.10
R5*	732	28.8	203	8	320	12.6	29	64
R6	726	28.6	252	9.9	380	14.96	46	101.43
R7	880	34.6	284	11.2	381	15	56	123.48
R8	965	38	300	11.8	452	17.8	77	169.8
R9	955	37.6	380	15	477	18.78	103	227.1

\* Valid for the type codes ACS580-01-088A-4 and ACS580-01-106A-4

\*\* Front height of the drive with glandbox

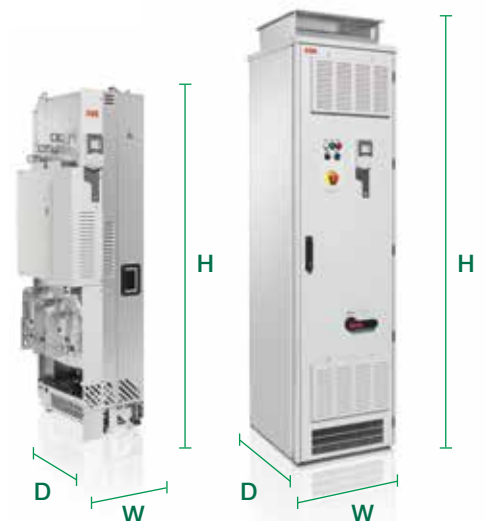


## ACS580-04

Frames IP00	Height		Width		Depth		Weight	
	mm	in	mm	in	mm	in	kg	lb
R10	1462	57.55	350	13.78	529	20.81	162	357.15
R11	1662	63.43	350	13.78	529	20.81	200	440.93

## ACS580-07

Frames IP00	Height		Width		Depth		Weight	
	mm	in	mm	in	mm	in	kg	lb
R6	2145	84.43	430	16.93	673	26.50	210	463
R7	2145	84.43	430	16.93	673	26.50	220	485
R8	2145	84.43	530	20.87	673	26.50	255	562
R9	2145	84.43	530	20.87	673	26.50	275	606
R10	2145	84.43	830	32.68	698	27.48	535	1179
R11	2145	84.43	830	32.68	698	27.48	581	1280



# Ratings, types and voltages

## Wall-mounted drives, ACS580-01 and drive modules, ACS580-04

3-phase, $U_N = 380, 400, 415 \text{ V}$								
Nominal ratings		Maximum output current	Light-overload use		Heavy-duty use		Type designation	Frame size
$P_N$ kW	$I_N$ A	$I_{\max}$ A	$P_{Ld}$ kW	$I_{Ld}$ A	$P_{Hd}$ kW	$I_{Hd}$ A		
0.75	2.6	3.2	0.75	2.5	0.55	1.8	ACS580-01-02A6-4	R0
1.1	3.3	4.7	1.1	3.1	0.75	2.6	ACS580-01-03A3-4	R0
1.5	4	5.9	1.5	3.8	1.1	3.3	ACS580-01-04A0-4	R0
2.2	5.6	7.2	2.2	5.3	1.5	4	ACS580-01-05A6-4	R0
3	7.2	10.1	3	6.8	2.2	5.6	ACS580-01-07A2-4	R1
4	9.4	13	4	8.9	3	7.2	ACS580-01-09A4-4	R1
5.5	12.6	14.1	5.5	12	4	9.4	ACS580-01-12A6-4	R1
7.5	17	22.7	7.5	16.2	5.5	12.6	ACS580-01-017A-4	R2
11	25	30.6	11	23.8	7.5	17	ACS580-01-025A-4	R2
15	32	44.3	15	30.4	11	24.6	ACS580-01-032A-4	R3
18.5	38	56.9	18.5	36.1	15	31.6	ACS580-01-038A-4	R3
22	45	67.9	22	42.8	18.5	37.7	ACS580-01-045A-4	R3
30	62	76	30	58	22	44.6	ACS580-01-062A-4	R4
37	73	104	37	68.4	30	61	ACS580-01-073A-4	R4
45	88	122	45	82.7	37	72	ACS580-01-088A-4	R5
55	106	148	55	100	45	87	ACS580-01-106A-4	R5
75	145	178	75	138	55	105	ACS580-01-145A-4	R6
90	169	247	90	161	75	145	ACS580-01-169A-4	R7
110	206	287	110	196	90	169	ACS580-01-206A-4	R7
132	246	350	132	234	110	206	ACS580-01-246A-4	R8
160	293	418	160	278	132	246 *	ACS580-01-293A-4	R8
200	363	498	200	345	160	293	ACS580-01-363A-4	R9
250	430	617	200	400	200	363 **	ACS580-01-430A-4	R9
250	505	560	250	485	200	361	ACS580-04-505A-4	R10
315	585	730	315	575	250	429	ACS580-04-585A-4	R10
355	650	730	355	634	250	477	ACS580-04-650A-4	R10
400	725	1020	400	715	315	566	ACS580-04-725A-4	R11
450	820	1020	450	810	355	625	ACS580-04-820A-4	R11
500	880	1100	500	865	400	725***	ACS580-04-880A-4	R11

### Nominal ratings

$I_N$  Rated current available continuously without overloadability at 40 °C.

$P_N$  Typical motor power in no-overload use.

### Maximum output current

$I_{\max}$  Maximum output current. Available for 2 seconds at start, then as long as allowed by drive temperature.

### Light-overload use

$I_{Ld}$  Continuous current allowing 110%  $I_{Ld}$  for 1 minute every 10 minutes at 40 °C.

$P_{Ld}$  Typical motor power in light-overload use.

### Heavy-duty use

$I_{Hd}$  Continuous current allowing 150%  $I_{Hd}$  for 1 minute every 10 minutes at 40 °C.

\* Continuous current allowing 130%  $I_{Hd}$  for 1 minute every 10 minutes at 40 °C.

\*\* Continuous current allowing 125%  $I_{Hd}$  for 1 minute every 10 minutes at 40 °C.

\*\*\* Continuous current allowing 140%  $I_{Hd}$  for 1 minute every 10 minutes at 40 °C.

$P_{Hd}$  Typical motor power in heavy-duty use.

The ratings apply for the frames R0 to R3 up to +50 °C and the frames R4 to R9 up to +40 °C in enclosed IP class 21.

The ratings apply for the frames R10 to R11 up to +40 °C in enclosed IP00/IP20.

For derating at higher altitudes, temperatures, switching frequencies or enclosure classes, see the HW manuals, document codes: 3AXD50000018826 and 3AXD50000015497.



# Ratings, types and voltages

## Wall-mounted drives, ACS580-01 and drive modules, ACS580-04

3-phase, $U_N = 440, 460, 480 \text{ V}$						
Maximum output current	Light-overload use		Heavy-duty use		Type designation	Frame size
$I_{\max}$ A	$I_{Ld}$ A	$P_{Ld}$ hp	$I_{Hd}$ A	$P_{Hd}$ hp		
2.9	2.1	1	1.6	0.75	ACS580-01-02A6-4	R0
3.8	3	1.5	2.1	1	ACS580-01-03A3-4	R0
5.4	3.4	2	3	1.5	ACS580-01-04A0-4	R0
6.1	4.8	3	3.4	2	ACS580-01-05A6-4	R0
7.2	6	3	4	3	ACS580-01-07A2-4	R1
8.6	7.6	5	4.8	3	ACS580-01-09A4-4	R1
11.4	11	7.5	7.6	5	ACS580-01-12A6-4	R1
19.8	14	10	11	7.5	ACS580-01-017A-4	R2
25.2	21	15	14	10	ACS580-01-025A-4	R2
37.8	27	20	21	15	ACS580-01-032A-4	R3
48.6	34	25	27	20	ACS580-01-038A-4	R3
61.2	40	30	34	25	ACS580-01-045A-4	R3
76	52	40	40	30	ACS580-01-062A-4	R4
104	65	50	52	40	ACS580-01-073A-4	R4
122	77	60	65	50	ACS580-01-088A-4	R5
148	96	75	77	60	ACS580-01-106A-4	R5
178	124	100	96	75	ACS580-01-145A-4	R6
247	156	125	124	100	ACS580-01-169A-4	R7
287	180	150	156	125	ACS580-01-206A-4	R7
350	240	200	180	150	ACS580-01-246A-4	R8
418	260	200	240	150	ACS580-01-293A-4	R8
542	361	300	302	250	ACS580-01-363A-4	R9
542	414	350	361	300	ACS580-01-430A-4	R9
560	483	400	361	300	ACS580-04-505A-4	R10
730	573	450	414	350	ACS580-04-585A-4	R10
730	623	500	477	400	ACS580-04-650A-4	R10
850	705	600	566	450	ACS580-04-725A-4	R11
1020	807	700	625	500	ACS580-04-820A-4	R11
1020	807	700	625	500	ACS580-04-880A-4	R11

### Maximum output current

$I_{\max}$  Maximum output current. Available for 2 seconds at start, then as long as allowed by drive temperature.

### Light-overload use

$I_{Ld}$  Continuous current allowing 110%  $I_{Ld}$  for 1 minute every 10 minutes at 40 °C.

$P_{Ld}$  Typical motor power in light-overload use.

### Heavy-duty use

$I_{Hd}$  Continuous current allowing 150%  $I_{Ld}$  for 1 minute every 10 minutes at 40 °C.

$P_{Hd}$  Typical motor power in heavy-duty use.

The ratings apply for the frames R0 to R3 up to +50 °C and the frames R4 to R9 up to +40 °C in enclosed IP class 21.

The ratings apply for the frames R10 to R11 up to +40 °C in enclosed IP00/IP20.

For derating at higher altitudes, temperatures or switching frequencies, see the HW manuals, document codes: 3AXD50000018826 and 3AXD50000015497.

# Ratings, types and voltages

## Cabinet-built drives, ACS580-07

3-phase, $U_N = 380, 400, 415 \text{ V}$								
Nominal ratings		Maximum output current	Light-overload use		Heavy-duty use		Type designation	Frame size
$P_N$ kW	$I_N$ A	$I_{max}$ A	$P_{Ld}$ kW	$I_{Ld}$ A	$P_{Hd}$ kW	$I_{Hd}$ A		
75	145	178	75	138	55	105	ACS580-07-145A-4	R6
90	169	247	90	161	75	145	ACS580-07-169A-4	R7
110	206	287	110	196	90	169	ACS580-07-206A-4	R7
132	246	350	132	234	110	206	ACS580-07-246A-4	R8
160	293	418	160	278	132	246 *	ACS580-07-293A-4	R8
200	363	498	200	345	160	293	ACS580-07-363A-4	R9
250	430	617	200	400	200	363 **	ACS580-07-430A-4	R9
250	495	560	250	485	200	361	ACS580-07-0495A-4	R10
315	575	730	315	575	250	429	ACS580-07-0575A-4	R10
355	640	730	355	634	250	477	ACS580-07-0640A-4	R10
400	715	1020	400	715	315	566	ACS580-07-0715A-4	R11
450	810	1020	450	810	355	625	ACS580-07-0810A-4	R11
500	870	1100	500	865	400	725*	ACS580-07-0870A-4	R11

3-phase, $U_N = 440, 460, 480 \text{ V}$						
Maximum output current	Light-overload use		Heavy-duty use		Type designation	Frame size
$I_{max}$ A	$I_{Ld}$ A	$P_{Ld}$ hp	$I_{Hd}$ A	$P_{Hd}$ hp		
178	124	100	96	75	ACS580-07-145A-4	R6
247	156	125	124	100	ACS580-07-169A-4	R7
287	180	150	156	125	ACS580-07-206A-4	R7
350	240	200	180	150	ACS580-07-246A-4	R8
418	260	200	240	150	ACS580-07-293A-4	R8
542	361	300	302	250	ACS580-07-363A-4	R9
542	414	350	361	300	ACS580-07-430A-4	R9
560	483	400	361	300	ACS580-07-0495A-4	R10
730	573	450	414	350	ACS580-07-0575A-4	R10
730	623	500	477	400	ACS580-07-0640A-4	R10
850	705	600	566	450	ACS580-07-0715A-4	R11
1020	807	700	625	500	ACS580-07-0810A-4	R11
1020	807	700	625	500	ACS580-07-0870A-4	R11

### Nominal ratings

$I_N$  Rated current available continuously without overloadability at 40 °C.

$P_N$  Typical motor power in no-overload use.

### Maximum output current

$I_{max}$  Maximum output current. Available for 2 seconds at start, otherwise as long as allowed by drive temperature.

### Light-overload use

$I_{Ld}$  Continuous current allowing 110%  $I_{Ld}$  for 1 minute every 10 minutes at 40 °C.

$P_{Ld}$  Typical motor power for light-overload use.

### Heavy-duty use

$I_{Hd}$  Continuous rms output current allowing 50% overload for 1 minute every 10 minutes.

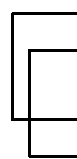
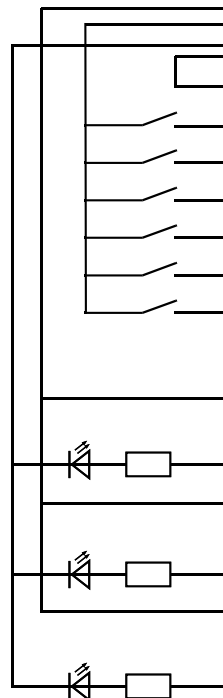
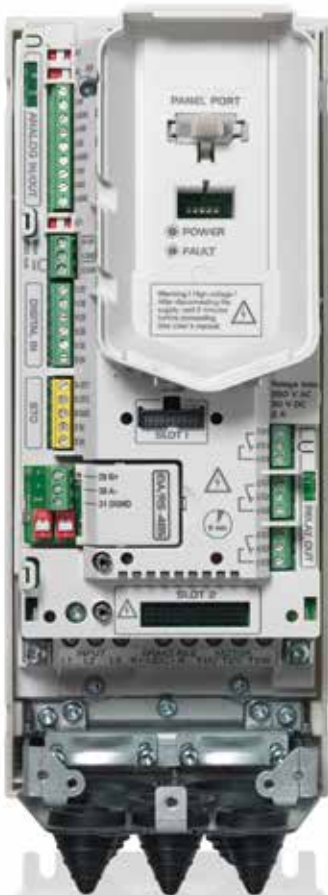
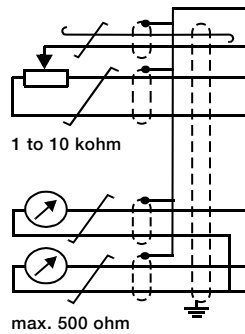
\* Continuous current allowing 140%  $I_{Hd}$  for 1 minute every 10 minutes at 40 °C.

$P_{Hd}$  Typical motor power in heavy-duty use.

# Standard interface and extensions for plug-in connectivity

The ACS580 drives offer a wide range of standard interfaces. In addition, the drive has two option slots that can be used for extensions including fieldbus adapters and input/output extension modules that allow external +24 V supply with the frames R0 to R5. For further information, please see the ACS580 user's manual.

## Default factory I/O connection diagram



Terminal	Meaning	Default macro connections
S1	AI1 U/I	Voltage/Current selection for analog input
S2	AI2 U/I	Voltage/Current selection for analog input
<b>XI Reference voltage and analog inputs and outputs</b>		
1	SCR	Signal cable shield (screen)
2	AI1	External frequency reference 1: 0 to 10 V
3	AGND	Analog input circuit common
4	+10 V	Output reference voltage 10 V DC
5	AI2	Not used
6	AGND	Analog input circuit common
7	AO1	Output frequency: 0 to 20 mA
8	AO2	Output current: 0 to 20 mA
9	AGND	Analog output circuit common
S3	AO1 I/U	Voltage/Current selection for analog output
<b>X2 &amp; X3 Aux. voltage output and programmable digital inputs</b>		
10	+24 V	Auxiliary voltage output +24 V DC
11	DGND	Auxiliary voltage output common
12	DCOM	Digital input common for all DI
13	DI1	Start/Stop: Activate to start
14	DI2	Fwd/Rev: Activate to reverse rotation direction
15	DI3	Constant speed selection
16	DI4	Constant speed selection
17	DI5	Ramp pair selection: Activate to select second pair
18	DI6	Not used
<b>X6, X7, X8 Relay outputs</b>		
19	RO1C	<b>Ready</b>
20	RO1A	250 V AC/30 V DC
21	RO1B	2 A
22	RO2C	<b>Running</b>
23	RO2A	250 V AC/30 V DC
24	RO2B	2 A
25	RO3C	<b>Fault (-1)</b>
26	RO3A	250 V AC/30 V DC
27	RO3B	2 A
<b>X5 EIA-485 Modbus RTU</b>		
29	B+	Built-in Modbus RTU fieldbus interface
30	A-	
31	DGND	
S4	TERM	Serial data link termination switch
S5	BIAS	Serial data link bias resistors switch
<b>X4 Safe torque off</b>		
34	OUT1	Safe torque off. Both circuits must be closed for the drive to start. The circuits are closed with jumper wires in the standard delivery.
35	OUT2	
36	SGND	
37	IN1	
38	IN2	
<b>X10 24 V AC/DC</b>		
40	24 V	AC/DC-in. Ext. 24 V AC/DC input to power up the control unit when the main supply is disconnected
41	24 V	AC/DC-in.

# Standard software with versatile features

## Commissioning easier than ever before

The drive's assistant control panel has a clear and intuitive user interface as well as different assistants to make the drive simple to set up and use. This saves on commissioning and learning time.

## Sophisticated process control

The ACS580 drives offer sophisticated process control in scalar and vector control modes. The drive supports a wide range of motors including induction and permanent magnet motors. Many embedded protection and other features improve performance of the motor and process.

## Flying start

Flying start is available for both scalar and vector control modes. Catching a running motor, enabled by the flying start feature, is often required in applications with long freewheeling times.

## Load profile

The load profile feature collects drive values such as current to a log. The log shows how the drive is operating and enables you to analyze and optimize the application.

## Reduce motor noise

The drive reduces motor noise by spreading the switching frequencies over a user-specified range. User can define an allowed range of used switching frequency. As a result, the drive maximizes the actual used switching frequency based on thermal measurement. The higher used switching frequency reduces motor noise at low load without limiting full current at maximum load.

## PID built-in

Built-in and stand-alone process PID makes the ACS580 a self-governing unit that requires no external logic input from the control room, but requires only an external process measurement. The sleep mode with boost functionality elevates the required level of operation momentarily eg, level or pressure of fluid, just before turning to sleep mode. This prolongs the time spent in sleep mode and saves energy.

## Pump and fan control

The pump and fan control (PFC) functionality includes auto-change and control of auxiliary pumps with contactor/soft starter control via relay outputs. In a pressure control pump system the PFC functionality of the drive is useful when

various pumps are operated in parallel mode at the same time and the flow required is variable. The functionality provides balanced and optimal operation at different loading points due to equal duty times between auxiliary motors. The PFC connects motors on-line from zero speed. One drive controls several pumps or fans in parallel and eliminates the need for an external programmable logic controller. This results in reduced stress on mains and system as well as in lower maintenance and operation costs.

## Optimize energy use

The ACS580 drives come with features that help you save and manage energy. The energy optimizer feature operates both in scalar and vector control modes, ensuring maximum torque per ampere and reducing energy drawn from the supply. You can monitor the hourly, daily and cumulative energy consumption via kWh counters. When the drive replaces other control methods (eg, direct-online control), you can follow the saved energy, CO<sub>2</sub> emissions or money, and see how fast the drive brings you a return on investment.

## Easy diagnostics for trouble-free operation

The control panel's diagnostics menu enables you to effectively analyze and resolve issues. You can quickly analyze why the drive is performing as it is; running, stopped or running at the present speed. Active faults, warnings and event logs are shown in the menu. The menu shows if there are any active limitations to the drive operation and gives instructions on how to resolve them. The Drive composer PC tool offers more detailed diagnosis and signal monitoring. The entry level PC tool is available for free via the ABB website.



# Effortless drive commissioning and use with control panel

Almost anyone can set up and commission the drive using the assistant control panel. You do not need to know any drive parameters as the control panel helps you to set up the essential settings quickly and get the drive into action.

## Effortless drive setup

- The primary settings menu with embedded assistants provides a smart and quick way to set up the drive.
- Each setting is clearly named by its function, such as motor, ramp or limit settings.

## Effortless process monitoring

- One glance at the control panel's editable home view will show you the status of the drive and process. It offers many data visualizations including bar charts, histograms and trend graphs.
- See how the electrical terminals are configured, what the actual status is, and get a quick access to the related settings from the I/O menu.
- Add information eg, to I/O signals, customize fault and warning messages or give the drive a unique name with the panel's text editor.
- Connect the PC tool to the drive through the USB connector on the control panel.

## Effortless drive maintenance

- Faults or warnings are quickly resolved as the help key provides context sensitive guidance and troubleshooting instructions.
- Powerful manual and automatic backup and restore functions (with name, date and content).

## Control panel options

Assistant control panel ACS-AP-S is included as standard in the delivery unless otherwise specified.

Option code	Description	Type designation
+J425	Assistant control panel*	ACS-AP-I
+J429	Control panel with Bluetooth interface	ACS-AP-W
+J404	Basic control panel	ACS-BP-S
+J424	Blank control panel cover (no control panel delivered)	CDUM-01
3AXD5000004419	Panel bus adapter (no control panel delivered)	CDPI-01
3AUA0000108878	Control panel mounting platform (flush mounted, requires also panel bus adapter on the drive)	DPMP-01
3AXD50000009374	Control panel mounting platform (surface mounted, requires also panel bus adapter on the drive)	DPMP-02
3AXD50000016230	Control panel mounting platform option, only for ACS580-04 modules	DPMP-03
3AXD50000010763	Door mounting kit for the panel (for one drive, contains both DPMP-02 and CDPI-01)	DPMP-EXT

\* Also compatible with ACS880 drives

## Effortless drive diagnostics

- Active inhibits view under the Diagnostics menu informs the user of the root-cause if there is an active inhibit preventing the drive from starting. There is also a patent pending for this feature.
- Limit view enables the user to detect the reason if the drive doesn't currently follow the reference or if the drive has not followed the reference for the past 60 seconds.





# PC tool for drive monitoring and process tuning capabilities

The Drive composer PC tool offers fast and harmonized setup, commissioning and monitoring for the whole all-compatible drives portfolio. The free version of the tool provides startup and maintenance capabilities and gathers all drive information such as parameter loggers, faults, backups and event lists into a support diagnostics file with a single mouse click. This provides faster fault tracking, shortens downtime and reduces operational and maintenance costs.

The Drive composer tool is connected to the drive using the mini USB connection on the assistant control panel.

## Drive composer pro offers extended functionality

Drive composer pro provides additional features such as custom parameter windows, graphical control diagrams of the drive's configuration and improved monitoring and diagnostics. The control diagrams save users from browsing long lists of parameters and help set the drive's logic quickly and easily. The tool has fast monitoring capabilities of multiple signals from several drives in the panel bus. Full backup and restore functions are also included.

## Safe configuration for unpowered drives

Cold configuration adapter CCA-01 provides a serial communication interface for unpowered ACS580 drives, among other selected drives. With the adapter, safety isolation of both serial communication and control board power supply is possible. The power supply is taken from a PC USB port.



Ordering code	Description	Type designation
3AXD5000019865	Cold configurator adapter, packed kit	CCA-01

## Remote monitoring access worldwide

The remote monitoring tool, NETA-21, gives easy access to the drive via the Internet or local Ethernet network. NETA-21 comes with a built-in web server. Compatible with standard web browsers, it ensures easy access to a web based user interface. Through the web interface, the user can configure drive parameters, monitor drive log data, load levels, run time, energy consumption, I/O data and bearing temperatures of the motor connected to the drive.

### Remote monitoring option

Ordering code	Description	Type designation
3AUA0000094517	2 x panel bus interface, 2 x 32 = max. 64 drives 2 x Ethernet interface SD memory card USB port for WLAN/3G	NETA-21



# Flexible connectivity to automation networks

A fieldbus enables communication between drives and PLC systems, I/O devices and the process. Fieldbus communication reduces wiring costs when compared with traditional hard wired input/output connections. Fieldbus systems also offer the ability to gather large amounts of data.

The general purpose drives are compatible with a wide range of fieldbus protocols. The drive comes with Modbus RTU fieldbus interface as standard. The optional fieldbus adapters can easily be mounted inside the drive.

## Drive monitoring

A set of drive parameters and/or actual signals, such as torque, speed, current, etc., can be selected for cyclic data transfer, providing fast data access.

## Drive diagnostics

Accurate and reliable diagnostic information can be obtained through the alarm, limit and fault words, giving easy interfacing with plantwide HMIs.

## Cabling

Substituting the large amount of conventional drive control cabling and wiring with a single cable reduces costs and increases system reliability and flexibility.

## Design

The use of fieldbus control reduces engineering time at installation due to the modular structure of the hardware and software and the simplicity of the connections to the drives.

## Commissioning and assembly

The modular machine configuration allows precommissioning of single machine sections and provides easy and fast assembly of the complete installation.

## Universal communication with ABB fieldbus adapters

The ACS580 supports the following fieldbus protocols:

### Fieldbus adapters

Option code	Fieldbus protocol	Adapter
+K451	DeviceNet™	FDNA-01
+K454	PROFIBUS DP, DPV0/DPV1	FPBA-01
+K457	CANopen®	FCAN-01
+K458	Modbus RTU	FSCA-01
+K462	ControlNet	FCNA-01
+K469	EtherCAT®	FECA-01
+K470	POWERLINK	FEPL-02
+K473	EtherNet/IP™, Modbus TCP, PROFINET IO	FENA-11
+K475	Two port EtherNet/IP™, Modbus TCP, PROFINET IO	FENA-21

# Input/output extension modules for increased connectivity

Standard input and output can be extended by using optional analog and digital input/output extension modules. The modules are easily installed in the extension slots located on the drive.

The CMOD options also enable connection to an external +24 V supply, which allows the control panel, control board, fieldbus and I/O to stay on when mains supply is cut off. With the external supply, drive diagnosis and fault finding can still be carried out.



## I/O options

Option code	Description	Type designation
+L501	External 24 V AC and DC 2 x RO and 1 x DO	CMOD-01
+L523	External 24 V and isolated PTC interface	CMOD-02
+L512	115/230 V digital input 6 x DI and 2 x RO	CHDI-01
+L537	ATEX certified PTC interface and external 24V	CPTC-02

# Drive construction options

The standard ACS580-04 drive module can be equipped with construction options for enhanced integration to the process.

## Drive construction options

Option code	Description	Benefit
+B051	IP20 shrouds for finger safe operation	Factory-made enclosure for the IP20 protection class
+H370	Full-size input power cable terminals	For connecting the drive to busbars or to multiple cables

# Brake options

## Brake chopper

The brake chopper is built-in as standard for the ACS580 frames up to R3. Braking control is integrated into the ACS580 drives. It not only controls braking, but it also supervises system status and detects failures such as brake resistor and resistor cable short-circuits, chopper short-circuit, and calculated resistor over-temperature.

## Brake resistor

The brake resistors are separately available for the ACS580. Resistors other than the standard option resistors may be used, provided that the specified resistance value is within specified limits and that the heat dissipation capacity of the resistor is sufficient for the drive application (see user's manual). No separate fuses in the brake circuit are required if the conditions for eg, the mains cable are protected with fuses and no mains cable/fuse overrating takes place.

# EMC – electromagnetic compatibility

Each ACS580 drive is equipped with a built-in filter to reduce high frequency emissions. **The EMC product standard (EN 61800-3) category C2 is fulfilled in wall-mounted drives and in cabinet-built drives up to the frame size R9. Category C3 is fulfilled in drive modules and cabinet-built drives (frames R10 and R11) with no external filters.**

## EMC standards

The EMC product standard (EN 61800-3) covers the specific EMC requirements stated for drives (tested with motor and motor cable) within the EU. EMC standards such as EN 55011 or EN 61000-6-3/4 are applicable to industrial and domestic equipment and systems including components inside the drive. Drive units complying with the requirements of EN 61800-3 are compliant with comparable categories in EN 55011 and EN 61000-6-3/4, but not necessarily vice versa. EN 55011 and EN 61000-6-3/4 do not specify cable length or require a motor to be connected as a load. The emission limits are comparable to EMC standards according to the table below.

## Domestic environments versus public low voltage networks

1<sup>st</sup> environment includes domestic premises. It also includes establishments directly connected without an intermediate transformer to a low voltage power supply network that supplies buildings used for domestic purposes. 2<sup>nd</sup> environment includes all establishments directly connected to public low voltage power supply networks.

## Comparison of EMC standards

EMC according to EN 61800-3 product standard	EN 61800-3 product standard	EN 55011, product family standard for industrial, scientific and medical (ISM) equipment	EN 61000-6-4, generic emission standard for industrial environments	EN 61000-6-3, generic emission standard for residential, commercial and light-industrial environment
1 <sup>st</sup> environment, unrestricted distribution	Category C1	Group 1, Class B	Not applicable	Applicable
1 <sup>st</sup> environment, restricted distribution	Category C2	Group 1, Class A	Applicable	Not applicable
2 <sup>nd</sup> environment, unrestricted distribution	Category C3	Group 2, Class A	Not applicable	Not applicable
2 <sup>nd</sup> environment, restricted distribution	Category C4	Not applicable	Not applicable	Not applicable

## EMC compliance and maximum cable length of ACS580-01/07 units\*

Type	Voltage	Frame sizes	1 <sup>st</sup> environment, restricted distribution, C2, grounded network (TN)	2 <sup>nd</sup> environment, unrestricted distribution, C3, grounded network (TN)	2 <sup>nd</sup> environment, unrestricted distribution, C3, ungrounded network (IT)
ACS580-01	380 - 480 V	R0 - R5	Standard device, cable length 100 m	Standard device, cable length 100 m	-
ACS580-01/07	380 - 480 V	R6 - R9	Standard device, cable length 150 m	Standard device, cable length 150 m	-

\* Motor cable operational functionality up to 300 m. See ACS580 hardware manuals 3AXD50000018826 and 3AXD50000015497 for frame specific information.



# Cooling and fuses

## Wall-mounted drives, ACS580-01 and drive modules, ACS580-04

### Cooling

ACS580 drives are fitted with variable speed cooling air fans. The cooling air must be free from corrosive materials and not exceed the maximum ambient temperature of 50 °C for the frames R0 to R3 and 40 °C for the frames R4 to R9 (50 °C with derating). The speed controlled fans cool the drive only when needed, which reduces overall noise level and energy consumption.

### Fuse connections

Standard fuses can be used with ABB general purpose drives. For input fuses see the table below.

### Cooling air flow and recommended input protection fuses for 380 to 415 V units

Type designation	Frame size	Cooling air flow 380 to 415 V units					Recommended input protection fuses for 380 to 415 V units***				
		Heat dissipation*		Air flow		Max. noise level**	IEC fuses		UL fuses		
		W	BTU/Hr	m³/h	ft³/min		A	Fuse type	A	Fuse type	
ACS580-01-02A6-4	R0	45	155	34	20	56	4	gG	6	UL Class T	
ACS580-01-03A3-4	R0	55	187	34	20	56	6	gG	6	UL Class T	
ACS580-01-04A0-4	R0	66	224	34	20	56	6	gG	6	UL Class T	
ACS580-01-05A6-4	R0	84	288	34	20	56	10	gG	10	UL Class T	
ACS580-01-07A2-4	R1	106	362	50	29	55	10	gG	10	UL Class T	
ACS580-01-09A4-4	R1	133	454	50	29	55	16	gG	15	UL Class T	
ACS580-01-12A6-4	R1	174	593	50	29	55	16	gG	15	UL Class T	
ACS580-01-017A-4	R2	228	777	128	75	66	25	gG	20	UL Class T	
ACS580-01-025A-4	R2	322	1100	128	75	66	32	gG	30	UL Class T	
ACS580-01-032A-4	R3	430	1469	116	68	71	40	gG	35	UL Class T	
ACS580-01-038A-4	R3	525	1791	116	68	71	50	gG	45	UL Class T	
ACS580-01-045A-4	R3	619	2114	116	68	71	63	gG	50	UL Class T	
ACS580-01-062A-4	R4	1153	3938	280	165	69	80	gG	80	UL Class T	
ACS580-01-073A-4	R4	1153	3938	280	165	69	100	gG	90	UL Class T	
ACS580-01-088A-4	R5	1156	3948	280	165	62	100	gG	110	UL Class T	
ACS580-01-106A-4	R5	1331	4546	435	256	67	125	gG	150	UL Class T	
ACS580-01-145A-4	R6	1476	5041	435	256	67	160	gG	200	UL Class T	
ACS580-01-169A-4	R7	1976	6748	450	265	67	250	gG	225	UL Class T	
ACS580-01-206A-4	R7	2346	8012	550	324	67	315	gG	300	UL Class T	
ACS580-01-246A-4	R8	3336	11393	550	324	65	355	gG	350	UL Class T	
ACS580-01-293A-4	R8	3936	13442	1150	677	65	425	gG	400	UL Class T	
ACS580-01-363A-4	R9	4836	16516	1150	677	68	500	gG	500	UL Class T	
ACS580-01-430A-4	R9	6036	20614	1150	677	68	700	gG	600	UL Class T	
ACS580-04-505A-4	R10	5600	19132	1200	707	72	***	***	***	***	
ACS580-04-585A-4	R10	6400	21888	1200	707	72	***	***	***	***	
ACS580-04-650A-4	R10	8100	27738	1200	707	72	***	***	***	***	
ACS580-04-725A-4	R11	8700	29931	1200	707	72	***	***	***	***	
ACS580-04-820A-4	R11	9800	33680	1200	707	72	***	***	***	***	
ACS580-04-880A-4	R11	10500	36126	1420	848	72	***	***	***	***	

\* Heat dissipation value is a reference for cabinet thermal design.

\*\* The maximum noise level at full fan speed. When the drive is not operating at full load and at maximum ambient temperature the noise level is lower.

\*\*\* For detailed fuse sizes and types, please see the ACS580 HW manuals, document codes: 3AXD50000018826 and 3AXD50000015497.

# Cooling and fuses

## Cabinet-built drives, ACS580-07

### Cooling air flow and recommended input protection fuses for 380 to 415 V units

Type designation	Frame size	Cooling air flow 380 to 415 V units					Recommended input protection fuses for 380 to 415 V units***			
		Heat dissipation*		Air flow		Max. noise level**	IEC fuses		UL fuses	
		W	BTU/Hr	m <sup>3</sup> /h	ft <sup>3</sup> /min	dBA	A	Fuse type	A	Fuse type
ACx580-07-0145A-4	R6	1827	1801	685	982	67	250	170M3816D	250	DFJ-250
ACx580-07-0169A-4	R7	2335	2317	700	1004	67	250	170M3816D	300	DFJ-300
ACx580-07-0206A-4	R7	2738	2716	700	1004	67	315	170M3817D	300	DFJ-300
ACx580-07-0246A-4	R8	3719	3719	800	1147	65	400	170M5408	400	170M5408
ACx580-07-0293A-4	R8	4352	4352	800	1147	65	500	170M5410	500	170M5410
ACx580-07-0363A-4	R9	5321	5314	1400	2007	68	630	170M6410	630	170M6410
ACx580-07-0430A-4	R9	6589	6579	1400	2007	68	700	170M6411	700	170M6411
ACS580-07-495A-4	R10	5602	19132	2950	1837	72	800	170M6412	***	***
ACS580-07-575A-4	R10	6409	21888	2950	1837	72	900	170M6413	***	***
ACS580-07-640A-4	R10	8122	27738	2950	1837	72	1000	170M6414	***	***
ACS580-07-715A-4	R11	8764	29931	2950	1837	72	1250	170M6416	***	***
ACS580-07-810A-4	R11	9862	33680	2950	1837	72	1250	170M6416	***	***
ACS580-07-870A-4	R11	10578	36126	3170	1978	72	1400	170M6417	***	***

\* Heat dissipation value is a reference for cabinet thermal design.

\*\* The maximum noise level at full fan speed. When the drive is not operating at full load and at maximum ambient temperature the noise level is lower.

\*\*\* For detailed fuse sizes and types, please see the ACS580 HW manuals, document codes: 3AXD50000018826 and 3AXD50000015497.

# du/dt filters

du/dt filtering suppresses inverter output voltage spikes and rapid voltage changes that stress motor insulation. Additionally, du/dt filtering reduces capacitive leakage currents and high frequency emission of the motor cable as well as high frequency losses and bearing currents in the motor. The need for du/dt filtering depends on the motor insulation. For information on

the construction of the motor insulation, consult the manufacturer. More information on the du/dt filters can be found in the ACS580 hardware manual.

## External du/dt filters for ACS580

ACS580	du/dt filter type * 3 filters included, dimensions apply to one filter.																
	Unprotected (IP00)				Protected to IP22				Protected to IP54								
	NOCH0016-60	NOCH0030-60	NOCH0070-60	NOCH0120-60*	FOCH0260-70	FOCH0320-50	FOCH0610-70	FOCH0875-70	NOCH0016-62	NOCH0030-62	NOCH0070-62	NOCH0120-62	NOCH0016-65	NOCH0030-65	NOCH0070-65	NOCH0120-65	BOCH-0880A-7
400 V																	
ACS580-01-02A6-4	x								x				x				
ACS580-01-03A3-4	x								x				x				
ACS580-01-04A0-4	x								x				x				
ACS580-01-05A6-4	x								x				x				
ACS580-01-07A2-4	x								x				x				
ACS580-01-09A4-4	x								x				x				
ACS580-01-12A6-4	x								x				x				
ACS580-01-017A-4		x								x				x			
ACS580-01-025A-4		x								x				x			
ACS580-01-032A-4			x								x				x		
ACS580-01-038A-4			x								x				x		
ACS580-01-045A-4			x								x				x		
ACS580-01-062A-4			x								x				x		
ACS580-01-073A-4				x								x				x	
ACS580-01-088A-4				x								x				x	
ACS580-01-106A-4				x								x				x	
ACS580-01-145A-4					x												
ACS580-01-169A-4					x												
ACS580-01-206A-4					x												
ACS580-01-246A-4					x												
ACS580-01-293A-4					x												
ACS580-01-363A-4						x											
ACS580-01-430A-4						x											
ACS580-04-505A-4							x										
ACS580-04-585A-4							x										
ACS580-04-650A-4							x										
ACS580-04-725A-4								x									
ACS580-04-820A-4									x								
ACS580-04-880A-4										x							

## External du/dt filters for ACS580-07

ACS580	du/dt filter type * 3 filters included, dimensions apply to one filter.		
	Protected to IP54		
	BOCH-0880A-7	COF-01	COF-02
400 V			
ACS580-07-495A-4	x		
ACS580-07-575A-4	x		
ACS580-07-640A-4	x		
ACS580-07-715A-4	x		
ACS580-07-810A-4	x		
ACS580-07-870A-4	x		
ACS580-07-0145A-4		x	x
ACS580-07-0169A-4		x	x
ACS580-07-0206A-4		x	x
ACS580-07-0246A-4		x	x
ACS580-07-0293A-4		x	x
ACS580-07-0363A-4		x	x
ACS580-07-0430A-4		x	x

## Dimensions and weights of the du/dt filters

du/dt filter	Height (mm)	Width (mm)	Depth (mm)	Weight (kg)
NOCH0016-60	195	140	115	2.4
NOCH0016-62/65	323	199	154	6
NOCH0030-60	215	165	130	4.7
NOCH0030-62/65	348	249	172	9
NOCH0070-60	261	180	150	9.5
NOCH0070-62/65	433	279	202	15.5
NOCH0120-60 <sup>3)</sup>	200	154	106	7
NOCH0120-62/65	765	308	256	45
FOCH0260-70	382	340	254	47
FOCH0320-50	662	319	293	65
FOCH0610-70	662	319	293	65
FOCH0875-70	662	319	293	65
BOCH-0880A-7	400	248	456	18
COF-01	570	296	360	23
COF-02	570	360	301	23

# ABB automation products

## AC500

ABB's powerful flagship PLC offering provides wide range of performance levels and scalability within a single simple concept where most competitors require multiple product ranges to deliver similar functionality.



## AC500-eCo

Meets the cost-effective demands of the small PLC market while offering total inter-operability with the core AC500 range. Web server, FTP server and Modbus-TCP for all Ethernet versions. A Pulse Train Out-put module is available for multi-axis positioning.



## AC500-S

A PLC based modular automation solution that makes it easier than before to mix and match standard and safety I/O modules to expertly meet your safety requirements in all functional safety applications. "Extreme conditions" version is also offered.



## AC500-XC

"Extreme conditions" modules with extended operating temperature, immunity to vibration and hazardous gases, for use at high altitudes, in humid conditions, etc. It replaces expensive cabinets with its built-in protection against dirt, water, gases and dust.



## Programmability

Automation Builder integrates the engineering and maintenance for PLC, drives, motion, HMI and robotics. It complies with the IEC 61131-3 standard offering all five IEC programming languages for PLC and drive configuration. Automation Builder supports a number of languages and comes with new libraries, FTP functions, SMTP, SNTP, smart diagnostics and debugging capabilities.



## Control panels

Our control panels offer a wide range of touchscreen graphical displays from 3.5" up to 15". They are provided with user-friendly configuration software that enables tailor made customized HMI solutions. Rich sets of graphical symbols and the relevant drivers for ABB automation products are provided. Control panels for visualization of AC500 web server applications are available.



## AC motors

ABB's low voltage AC motors are designed to save energy, reduce operating costs and enable demanding motor applications to perform reliably and without unscheduled downtime. General performance motors combine convenience and easy handling seamlessly with ABB's engineering expertise. Process performance motors provide the most comprehensive, versatile set of motors for the process industries and heavy-duty applications.



## All-compatible drives portfolio

The all-compatible drives share the same architecture; software platform, tools, user interfaces and options. Yet, there is an optimal drive from the smallest water pump to the biggest cement kiln, and everything in the between. When you have learned to use one drive it is easy use the other drives in the portfolio.



## Jokab safety products

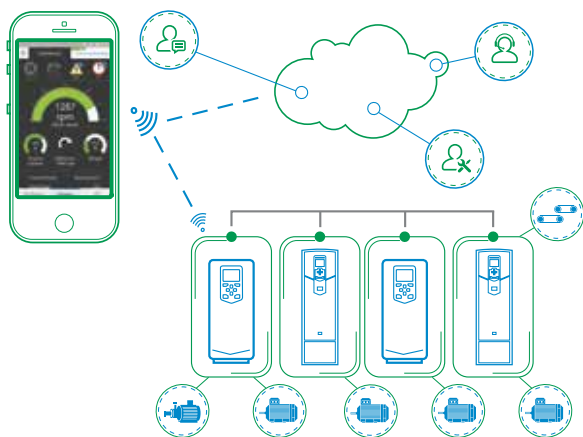
ABB Jokab Safety offers an extensive range of innovative products and solutions for machine safety systems. It is represented in standardization organisations for machine safety and works daily with the practical application of safety requirements in combination with production requirements.



# Save time, ease troubleshooting and improve drive performance with ABB smartphone apps

## Better connectivity and user experience with Drivetune

Easy and fast access to product information and support



Manage your drives and the process lines and machines they control

Easy access to cloud-based drive and process information from anywhere via online connection



Startup, commission and tune your drive and application



Simplified user guidance with instant access to drive status and configuration



Performance optimization via drive troubleshooting features and fast support



## Services and support on the go with Drivebase

Search for support documents and contacts



Maintain and service all your installed drives on one or multiple sites

Get 6 months extra warranty for free by registering your drive with the Drivebase app



Access your product and service information in the cloud from anywhere



Access drive's diagnostics data



Push notifications for critical product and service updates



## Access information anywhere

Download the apps via QR codes below or directly from the app stores

**Drivetune** for commissioning and managing drives



**Drivebase** for ensured reliability and reduced downtime on production sites



# Drives service

## Your choice, your future

### The future of your drives depends on the service you choose.

Whatever you choose, it should be a well-informed decision. No guesswork. We have the expertise and experience to help you find and implement the right service for your drive equipment. You can start by asking yourself these two critical questions:

- Why should my drive be serviced?
- What would my optimal service options be?

From here, you have our guidance and full support along the course you take, throughout the entire lifetime of your drives.

### Your choice, your business efficiency

ABB Drive Care agreement lets you focus on your core business. A selection of predefined service options matching your needs provides optimal, more reliable performance, extended drive lifetime and improved cost control. So you can reduce the risk of unplanned downtime and find it easier to budget for maintenance.

### We can help you more by knowing where you are!

Register your drive at [www.abb.com/drivereg](http://www.abb.com/drivereg) for extended warranty options and other benefits.



## Service to match your needs

Your service needs depend on your operation, life cycle of your equipment and business priorities. We have identified our customers' four most common needs and defined service options to satisfy them. What is your choice to keep your drives at peak performance?

### Is uptime your priority?

Keep your drives running with precisely planned and executed maintenance.

#### Example services include:

- ✓ Life Cycle Assessment
- ✓ Installation and Commissioning
- ✓ Spare Parts
- ✓ Preventive Maintenance
- ✓ Reconditioning
- ✓ ABB Drive Care agreement
- ✓ Drive Exchange

### Is rapid response a key consideration?

If your drives require immediate action, our global network is at your service.

#### Example services include:

- ✓ Technical Support
- ✓ On-site Repair
- ✓ Remote Support
- ✓ Response time agreements
- ✓ Training

### Need to extend your assets' lifetime?

Maximize your drive's lifetime with our services.

#### Example services include:

- ✓ Life Cycle Assessment
- ✓ Upgrades, Retrofits and Modernization
- ✓ Replacement, Disposal and Recycling

### Is performance most critical to your operation?

Get optimal performance out of your machinery and systems.

#### Example services include:

- ✓ Advanced services
- ✓ Engineering and Consulting
- ✓ Inspection and Diagnostics
- ✓ Upgrades, Retrofits and Modernization
- ✓ Workshop Repair
- ✓ Tailored services



Operational efficiency



Rapid response



Life cycle management



Performance improvement



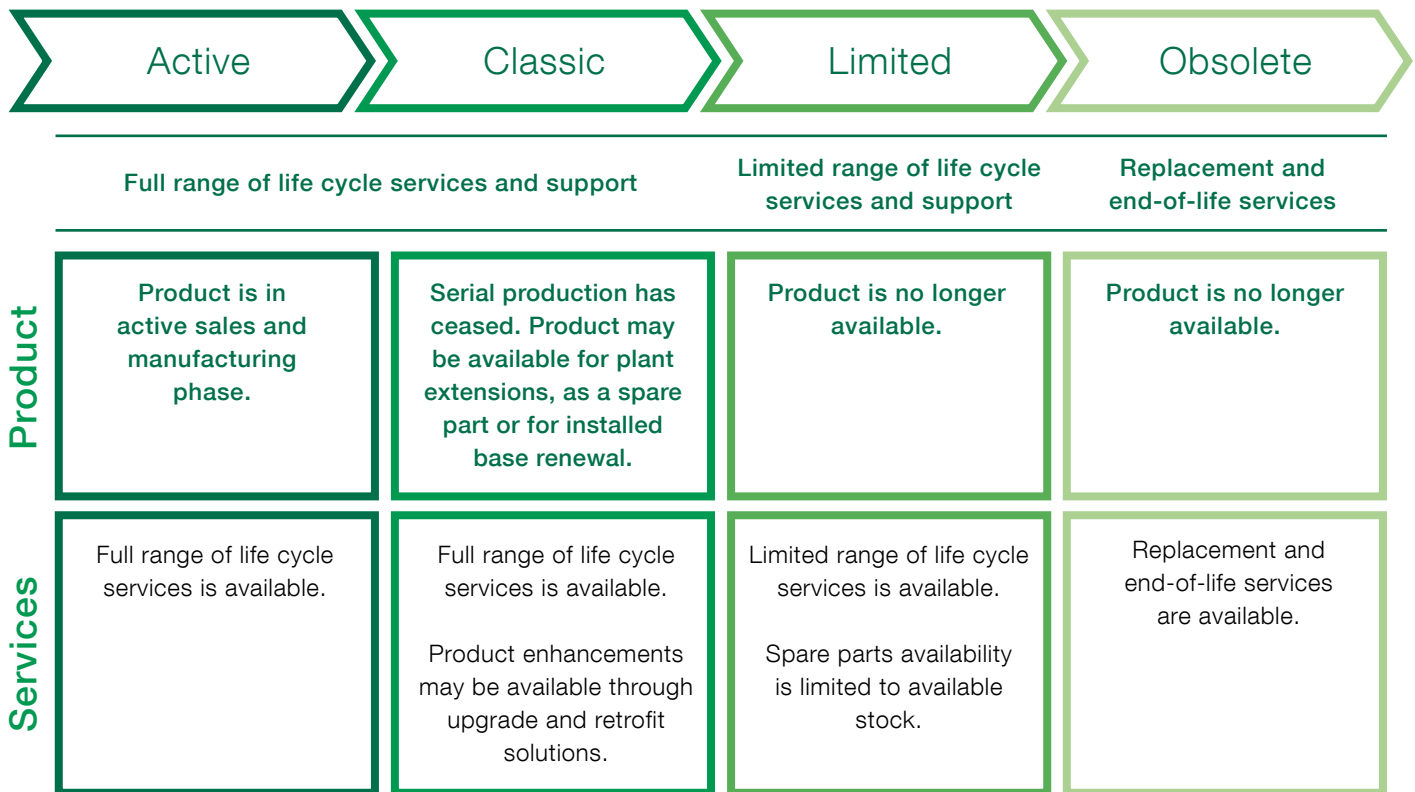
# Drives service

## A lifetime of peak performance

You're in control of every life cycle phase of your drives. At the heart of drive services is a four-phase product life cycle management model. This model defines the services recommended and available throughout drives lifespan.

Now it's easy for you to see the exact service and maintenance available for your drives.

ABB drives life cycle phases explained:



### Keeping you informed

We notify you every step of the way using life cycle status statements and announcements.

Your benefit is clear information about your drives' status and precise services available. It helps you plan the preferred service actions ahead of time and make sure that continuous support is always available.

### Step 1 Life Cycle Status Announcement

Provides early information about the upcoming life cycle phase change and how it affects the availability of services.

### Step 2 Life Cycle Status Statement

Provides information about the drive's current life cycle status, availability of product and services, life cycle plan and recommended actions.

# Contact us

[www.abb.com/ACS580](http://www.abb.com/ACS580)  
[www.abb.com/drives](http://www.abb.com/drives)  
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Online manuals for the ACS580 drives



Video playlist: ACS580 how-to videos

