Effortless efficiency
ACS580 general purpose drive

Designed to simplify drive selection, set up, operation and maintenance, the ACS580 general purpose drive conquers more applications in more industries without the head scratching complexities. The ACS580’s essential built-in features and intuitive user interfaces offers out-of-the-box, effortless efficiency.

Simple. Connected. Local.

Get started, in minutes
- Predefined primary settings menu means quick and easy set up
- A variety of control macros simplifies the electrical aspects of commissioning
- No need to know parameters or use any programming language
- Directly access all drive functions
- Motor defaults are set to match Baldor Super E motors

Get connected, without the hassle
- Optional Bluetooth assistant control panel allows you to control your drive from up to 250 ft and out of the arc flash boundary
- Supports all industrial standard protocols via optional plug-in modules
- USB port allows transfer of information between PC and drive with no additional hardware
- Free DriveComposer software to program and monitor drive performance

Get what you need, wherever you are
- ACS580 drives are made in America and stocked at a channel partner location near you
- ABB’s drive services support is available 24/7

Technical data

<table>
<thead>
<tr>
<th>Voltage and power range</th>
<th>3-phase, Un 380 to 480 V, +10%/-15% ACS580-01: from 1 to 350 hp</th>
</tr>
</thead>
<tbody>
<tr>
<td>Frequency</td>
<td>50/60 Hz ±10%</td>
</tr>
<tr>
<td>Motor control types</td>
<td>Scalar and sensorless vector AC induction Permanent magnet SynRM</td>
</tr>
<tr>
<td>Compatible motors</td>
<td>AC induction Permanent magnet SynRM</td>
</tr>
<tr>
<td>Enclosures</td>
<td>UL Type 1</td>
</tr>
<tr>
<td>Wall-mount</td>
<td>UL Type 12</td>
</tr>
<tr>
<td>Flange-mount (option)</td>
<td>up to 350 HP*</td>
</tr>
<tr>
<td>Ambient temperature</td>
<td>ACS580-01: -15 to 40 °C. No frost allowed. R1 to R9 from +40 to +50 °C with derating</td>
</tr>
<tr>
<td>Altitude</td>
<td>without derating with derating of 1%/100m</td>
</tr>
<tr>
<td>Control panel</td>
<td>Advanced (standard) Bluetooth (optional)</td>
</tr>
</tbody>
</table>

Product Compliance
UL 508C; NEMA 250-2008; CE;
Low Voltage Directive 2006/95/EC, EN 61800-5-1: 2007
RoHS directive 2011/65/EU AC5580-07 (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

*350 HP rating at 30 °C ambient
There is more to this drive.
The ACS580 is designed to benefit more applications within more industries, while providing more options with more flexibility.

Adaptive Programming now allows you to customize the drive to your application.

Increased power range (up to 350 Hp) available in a compact, wall-mounted product.

UL Type 12 drives have a reduced footprint (same as UL Type 1), providing more mounting flexibility in harsh environments. Enclosures are also smaller than competitor’s solutions.

Color coded connection terminals make the installation and wiring process quick and easy.

### Applications
- Pumps
- Fans
- Compressors
- Conveyors
- Blowers
- Extruders
- Mixers
- Centrifuges

### Industries
- Food and beverage
- Material handling
- Chemical, oil and gas
- Agriculture
- Rubber and plastics
- Sawmills
- Water handling
- Automotive

Built to last.
ACS580 drives feature coated boards to provide improved reliability in harsh environments.

Additionally, all ACS580 drives are tested in maximum temperature and with nominal loads. Tests include both performance and all protective functions.

ABB drives are the global benchmark for quality, reliability, and performance.

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Essential features inside.

- **Integrated STO, Safe Torque Off**
  Satisfies SIL 3, PLe safety level

- **Embedded Modbus RTU (RS 485)**
  Fieldbus protocol with removeable terminal for ease of connection

- **Option slots**
  I/O extension modules can be installed in option SLOT 2 in the control unit

- **External +24V AC/DC**
  Power up the control unit (frames R6-R11) with an external +24V supply

- **USB interface for PC tool connection**
  Transfer information between PC and drive with no additional hardware

- **Patented swinging choke**
  Harmonic mitigation even on partial loads

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How to videos

ACS580 Website
Additional technical information, white papers, case studies and application overviews

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