The ACS480 general purpose drives are designed to simplify drive selection, set up, and operation for many basic applications without the head scratching complexities.

Two products, many applications
As a “little brother” to the ACS580, the ACS480 includes all the essential components for typical light industry applications. It is ready to control compressors, conveyors, fans, as well as many other basic speed-controlled applications, while the ACS580 fulfills even more demanding needs.

Reliability and constant high quality
The cabinet-optimized ACS480 is designed for customers who value high quality and robustness in their applications. Its coated control boards, high operating maximum ambient temperature, and supervision and protection functions ensure smooth and reliable processes. Additionally, all the drives are tested at maximum temperature with nominal loads.

Easier than ever before
ACS480 drives have all the essential features built-in reducing commissioning and setup time. The assistant control panel with multiple languages is standard for ACS480 drives, and users can even upgrade to an optional Bluetooth control panel for wireless commissioning and monitoring. Primary settings and control macros ensure quick setup and the help button on the control panel offers instant advice in unclear situations.

Instant availability
ACS480 products are available from the central stock for immediate delivery. The product is also widely available from ABB distributors.
Technical data

<table>
<thead>
<tr>
<th>Voltage and power range</th>
<th>3-phase, 380 to 480 V, +10%/-15% 0.75 up to 22 kW, 0 up to 30 HP</th>
</tr>
</thead>
<tbody>
<tr>
<td>Frequency</td>
<td>48 to 63 Hz</td>
</tr>
<tr>
<td>Degree of protection</td>
<td>IP20</td>
</tr>
<tr>
<td>UL Type 1 with optional kit</td>
<td></td>
</tr>
<tr>
<td>Ambient conditions</td>
<td>-10 to +50 °C no derating required, no frost allowed, +50 to +60 °C with derating</td>
</tr>
</tbody>
</table>

Control and communication options

<table>
<thead>
<tr>
<th>Fieldbus adapters</th>
<th>PROFINET DP, DPV0/DPV1, DeviceNet, Two-Port Modbus/TCP, Two-Port Ethernet/IP, Two-Port PROFINET IO, CANopen, ControlNet, EtherCAT, POWERLINK</th>
</tr>
</thead>
<tbody>
<tr>
<td>PC tools</td>
<td>Drive composer tool entry, available for free via ABB website Drive composer tool pro</td>
</tr>
<tr>
<td>Control panel options</td>
<td>ACS-AP-S, assistant control panel (delivered as standard) ACS-AP-W, control panel with Bluetooth interface ACS-AP-I, industrial control panel ACS-BP-S, basic control panel RDUM-01, blank control panel with an RJ-45 connector</td>
</tr>
<tr>
<td>I/O option</td>
<td>I/O extension (BIO-01) used with a fieldbus adapter: Three digital inputs One digital output One analog input</td>
</tr>
<tr>
<td>Door mounting options</td>
<td>DPMP-01, flush door mounting kit DPMP-02, surface door mounting kit DPMP-EXT2, door mounting kit which includes DPMP-02 and RDUM-01</td>
</tr>
</tbody>
</table>

Essential features inside

- Integrated safe torque off (STO)
- Modbus RTU terminal
- USB interface for PC tool connection
- Integrated brake chopper
- Integrated EMC C2 filter

Get started, without the hassle

- Integrated PID controllers, timers, load analyzer, supervision functions, energy saving optimizer and energy saving calculator for effortless and easy operation
- Three relay outputs and ready-made PFC macro for running parallel pumps, fans, or compressors
- Common standard I/O connections and control functionalities with the ACS580 allows easy transition to the ACS480
- Connection to most common industrial automation systems via plug-in fieldbus and Ethernet adapters
- USB port for transferring information between PC and drive
- Free Drive Composer software to program and monitor drive performance

Learn it once, use it everywhere

- Common drives architecture enables a smooth transition to other all-compatible drives in the ABB portfolio, such as the ACS580 drives
- The drives share the same user interfaces, fieldbus options, and operation logic, enabling users to use the knowledge gained with the ACS480 drives

There is more to this drive

With optional Bluetooth® assistant control panel users can control the drive from up to 75 meters and out of the arc flash boundary.

Compact size together with the control panel door mounting kit make the ACS480 an optimal product for cabinet installations.

Motor control capabilities include support for asynchronous motors as well as high energy efficient permanent magnet and synchronous reluctance motors.