

ABB general purpose drives
ACS480, 0.75 to 11 kW
for essential energy efficiency



The ACS480 is part of ABB's all-compatible drives portfolio. The drive offers essential energy efficiency in a compact package to effortlessly improve processes and operations.



Some applications need only the essentials from their drives: efficiency and simplicity in a small package, delivered as effortlessly as possible. The ACS480 general purpose drive is exactly that: it brings all the essentials effortlessly together to run your application with maximized energy efficiency.

All you need – for all your basic needs

The ACS480 is an all-compatible ABB general purpose drive which is specifically designed to optimize pump, fan and compressor operations in an energy efficient and simple manner. In a compact package, you get the exact functionality you need to effortlessly and intuitively control many standard applications.

The ACS480 drive has all essential functions such as PID, pump and fan macros and timers built inside and is therefore optimized to manage common variable-torque applications via numerous integrated and preprogrammed features.

Inbuilt EMC C2 filter secures compliance with the latest European and international standards allowing the drive to be used in industrial and commercial (building) environments. To protect both people and machinery, the drive comes with key safety functions such as a TÜV-certified safe torque off (STO) as standard.

In addition, the drive is enabled for connectivity to most common automation networks and has Bluetooth capability for easy configuration of the drive and monitoring of parameters with mobile devices. With its straightforward control panel settings menu, the ACS480 is easy to start up, commission and operate.

Pure essentials for maximum energy efficiency

Energy reduction is the number one focus area for the ACS480 and the built-in energy optimizer gives easy direct access to critical energy efficiency information, helping users monitor and systematically reduce the amount of energy used in their processes for big

savings on energy bills. The new drive also supports synchronous reluctance motors for even greater efficiency and savings.

Seamless scalability

The ACS480 shares the same user interface, tools and options as other ABB all-compatible drives, thus making drive selection, installation and operation extremely easy. The new ACS480 general purpose drive logically complements the ACS580 drive series, allowing seamless scalability from the ACS480 to the ACS580 whenever more power or features may be needed.



Technical data	
Voltage and power range	3-phase, 380 to 480 V, +10%/-15% 0.75 to 11 kW Built-in braking chopper
Frequency	50 Hz ±5%
Degree of protection	IP20 as standard
Ambient conditions	-10 to +50 °C no derating required. No frost allowed. +50 to +60 °C with derating
Compliance	CE, TÜV Nord (safety functions, pending), EAC (pending)
Safety	Safe torque off according to EN/IEC 61800-5-2: IEC 61508 ed2: SIL 3, IEC 61511: SIL 3, IEC 62061: SIL CL 3, EN ISO 13849-1: PL e
EMC	According to EMC Directive according to EN 61800-3: 2004 + A1: 2012
Control connections	Two analog inputs, two analog outputs, six digital inputs, three relay outputs, EIA-485 Modbus RTU, safe torque off (STO), USB via assistant control panel
Control and communication options	
Fieldbus adapters	PROFIBUS DP, EtherNet/IP™, Modbus TCP, PROFINET IO
PC tools	Drive composer tool entry, available for free via ABB website Drive composer tool pro
Control panel options	ACS-AP-S, assistant control panel as standard (compatible with all-compatible ACS580 drives) ACS-AP-I, assistant control panel (compatible with all ABB all-compatible drives) ACS-AP-W, control panel with Bluetooth interface ACS-BP-S, basic control panel

For more information contact your local ABB representative or visit:

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