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# ABB Drives ACS550-U1-059A-2, 20 HP, 3PH, 200 VAC, Wall Mount VFD



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ABB ACS550, Variable Frequency Drive-Wall Mount, 59.4 Amps, 20HP at 240VAC, R3, Wall Mnt, NEMA 1/IP21

[Q ABB Drive Selector](#) (acs550-drive-sizing-guide)

[Datasheet for ABB ACS550 Drives](http://www.automation-mall.com/datasheets/abb_drives/ACS550-PHTC01U-EN_REVJ.pdf) (http://www.automation-mall.com/datasheets/abb\_drives/ACS550-PHTC01U-EN\_REVJ.pdf)

[User Manuals](#) (abb-drives-manuals)

## YOUR INSTANT QUOTE

Price/unit

~~\$3,326.00~~

**\$1,887.73**

**+ FREE Shipping**

[Review Shipping Policy](https://www.automation-mall.com/shipping-delivery) (https://www.automation-mall.com/shipping-delivery)

Availability

Dropship it from ABB Drives

Estimate Delivery Date

Condition

New

[Review Return Policy](https://www.automation-mall.com/returns) (https://www.automation-mall.com/returns)

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### What sets the ACS550 apart?

Everyone knows variable frequency drive (VFD) technology has been around for decades. So, what did ABB do to make the ACS550 the **best** general purpose VFD on the market?

General purpose drives like the ACS550 are designed to run a variety of variable frequency loads (ex. pumps, fans) and constant torque loads (ex. conveyors). That means you'll see the same drive technology running your centrifugal pump as you will your HVAC system.

With the same drive technology powering everything in your plant, it's essential the people working to install, service, and maintain those drive systems have the best tools available. And that means, ABB has to deliver an **exceptional user experience**.

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## So here's what ABB does:

1. *ABB tests every drive at the factory with full load. That means the ACS550 will work correctly from Day 1 at your facility.*
2. *The assistant keypad (included with every ACS550 drive), will guide you through all essential settings to get you from 0 to 60 Hz in no time.*
3. *If you need to monitor the energy efficiency of your drive, the ACS550 includes built-in counters to display energy savings in kilowatt hours, carbon dioxide emissions, or local currency.*
4. *The ACS550 is protected by a 1-year warranty. That means if a problem did sneak past the factory's quality testers, you are covered for parts, on-site labor, and even a complete drive replacement. ABB will even extend the warranty to two (2) years if you have a Factory Authorized technician commission the drive.*

With the amount of engineering and effort ABB poured into this drive, you can expect quick delivery, easy installation, trouble-free startup, and intuitive operation for every ABB ACS550 drive.

The ACS550 also has several features and add-ons available to help extend the value of the drive:

### Features

- Energy efficiency counters
- Intuitive use with assistant control panel
- Swinging choke for superior harmonic reduction
- Vector control
- Coated boards for harsh environments
- Built-in category C2 EMC filter (1st environment) as standard
- Flexible fieldbus system with built-in Modbus and numerous internally mountable fieldbus adapters

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- Brake chopper as standard in the frames R1 and R2
- FlashDrop tool for cold configuration

## Options

- Fieldbus adapters
- Panel mounting kits
- DriveWindow Light software
- Output chokes
- Brake units and resistors
- Encoder feedback module
- Relay output extension module
- Remote monitoring adapter
- Flange mounting kits
- FlashDrop tool
- Basic control panel



## Motor connection

### Voltage

3-phase, from 0 to  $U_{SUPPLY}$

### Frequency

0 to 500 Hz

### Continuous loading capability

(constant torque at a max ambient temperature of 40 °C)

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Rated output current  $I_{2N}$

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### Overload capacity

(at a max. ambient temperature of 40 °C)

At normal use  $1.1 \times I_{2N}$  for 1 minute every 10 minutes

At heavy duty use  $1.5 \times I_{2hd}$  for 1 minute every 10 minutes

Always  $1.8 \times I_{2hd}$  for 2 seconds every 60 seconds

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### Switching frequency

1, 2, 4, 8, 12 kHz. 4 kHz as default.

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## Programmable control connections

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### Two analog inputs

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#### *Voltage signal*

0 (2) to 10 V,  $R_{in} > 312 \text{ k}\Omega$  single-ended

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#### *Current signal*

0 (4) to 20 mA,  $R_{in} = 100\Omega$

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#### *Potentiometer reference value*

10 V  $\pm 2\%$  max. 10 mA,  $R < 10 \text{ k}\Omega$

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#### *Resolution*

0.001

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#### *Maximum delay*

12 to 32 ms

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#### *Accuracy*

$\pm 1\%$

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### Two analog outputs

0 (4) to 20 mA, load  $< 500 \Omega$

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#### *Accuracy*

$\pm 3\%$

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### Auxiliary voltage

24 V DC  $\pm 10\%$ , max. 250 mA

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### Six digital inputs

12 to 24 V DC with internal or external supply, PNP and NPN

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***Input impedance***

2.4 k $\Omega$

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***Maximum delay***

5 ms  $\pm$  1ms

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**Three relay outputs**

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***Maximum switching voltage***

250 V AC/30 V DC

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***Maximum switching current***

6 A/30 V DC; 1500 V A/230 V AC

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***Maximum continuous current***

2 A rms

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**Serial communication**

EIA-485, Modbus protocol

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**Control and communication options**

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**Fieldbusses**

DeviceNet TM, RDNA-01

LonWorks, RLON-01

PROFIBUS DP, RPBA-01

CANopen®, RCAN-01

ControlNet, RCNA-01

Ethernet/IP TM, RETA-01

EtherCAT®, RECA-01

Modbus TCP, RETA-01, RETA-02

PROFINET IO, RETA-02

PowerLink, REPL-01

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**Remote monitoring**

Ethernet adapter, SREA-01

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**Encoder adapter**

Encoder adapter, OTAC-01

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**Relay output extension**

Extension module, 3 relay outputs, OREL-01

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## Product compliance

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UL, cUL, CE, C-Tick and GOST R approvals, RoHS compliant

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## Environmental limits

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### Degree of protection

IP21 or IP54 ( $\leq 160$  kW)

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### Ambient temperature

-15 to +50°C. No frost allowed. From +40 to 50°C with derating

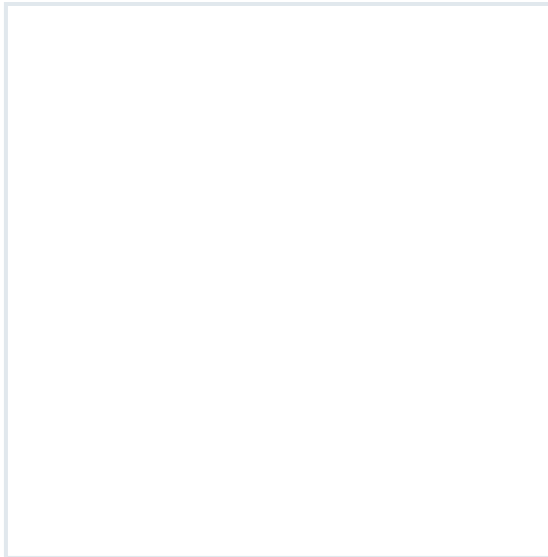
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### Relative humidity

5 to 95%, no condensation allowed

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## YOUR AUTOMATION ENGINEER



Clint Schneider

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[Contact](mailto:sales@automation-mall.com) (mailto:sales@automation-mall.com)

Ways I can help you:

- Pre-sales support
- Custom quotes & pricing
- Setup NET30 terms

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