

## ABB micro drives ACS250 600 V AC, 1 to 20 hp



ABB micro drive ACS250 with 600 V AC supply offers easy to use and compact solutions for general purpose low power applications, such as; screws, mixers, pumps, fans and conveyors. The key features include a built-in safe torque-off (STO), Modbus RTU and CANopen communication interfaces.



## Product highlights

- Easy to use, compact design
- High performance vector control
- Input voltage 500 to 600 V +/- 10%
- Built-in safe torque-off (STO) complies with EN62061 SIL level 2
- Built-in braking chopper in all types
- Built-in communication with Modbus RTU and CANopen® interfaces
- Rated for 150% overload for 60 sec as standard
- DIN rail mounting
- Pluggable control terminals
- Remote keypad available as an option

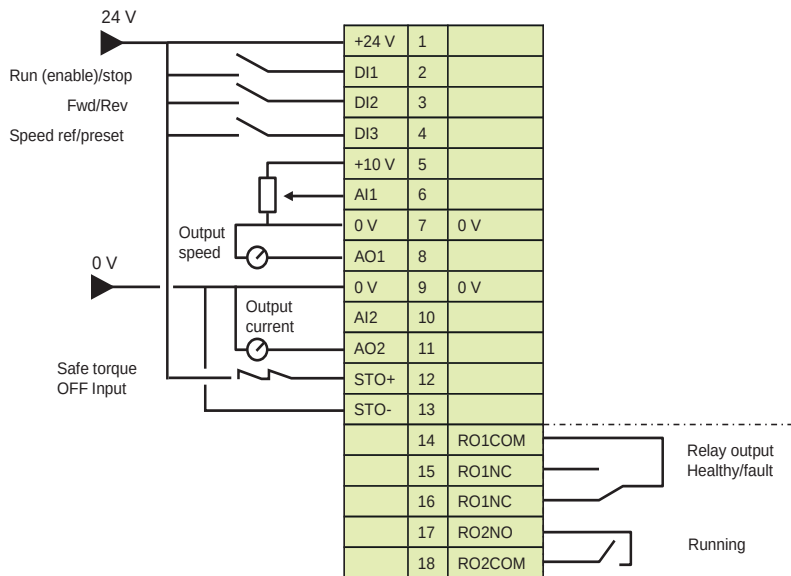
## Supporting options

- Remote keypad (RCRP-01) provides easy cabinet installations
- Parameter upload/download tool (RCCS-01) for straightforward commissioning
- Relay output card (RCRO-01)
- UL Type 4X/IP66 frames for harsh environments up to 15 hp
- Disconnect switch for UL Type 4X/IP66 frames

## Part of ABB micro drives portfolio

The ACS250 drive is part of ABB's complete micro drive range, which offers a solution for every need:

- Drives for simple to more complex machines
- Full voltage range from 110 to 600 V
- Enclosures IP20 and IP66
- Power range up to 20 hp



### Supply connection

|                              |                                |
|------------------------------|--------------------------------|
| <b>Voltage</b>               | 500 to 600 V +/- 10%           |
| <b>Power range</b>           | 1 to 20 hp (0.75 to 15 kW)     |
| <b>Frequency</b>             | 48 to 62 Hz                    |
| <b>Connections</b>           |                                |
| <b>Voltage</b>               | 3-phase from 0 to $U_{SUPPLY}$ |
| <b>Frequency</b>             | 0 to 500 Hz, 0.1 Hz resolution |
| <b>Overload capacity</b>     | 150% for 60 seconds            |
| <b>Motor control methods</b> | Vector control                 |

### Product compliance

CE, UL, cUL, C-Tick, Gost

### Environmental limits

|                             |                                     |
|-----------------------------|-------------------------------------|
| <b>Degree of protection</b> | UL Type Open/IP20/UL Type Open/IP20 |
| <b>Ambient temperature</b>  | Operating -10 to 50 °C              |
| <b>Relative humidity</b>    | 95% max (without condensation)      |

| Output ratings                  |                  |               | Type designation  | Frame size | Height | Width | Depth | Weight |
|---------------------------------|------------------|---------------|-------------------|------------|--------|-------|-------|--------|
| $P_{N,HD}$<br>kW                | $P_{N,HD}$<br>hp | $I_{2N}$<br>A |                   |            |        |       |       |        |
| 3-phase AC supply, 500 to 600 V |                  |               |                   |            |        |       |       |        |
| 0.75                            | 1                | 2.1           | ACS250-03U-02A1-6 | P2         | 221    | 112   | 185   | 1.8    |
| 1.5                             | 2                | 3.1           | ACS250-03U-03A1-6 | P2         | 221    | 112   | 185   | 1.8    |
| 2.2                             | 3                | 4.1           | ACS250-03U-04A1-6 | P2         | 221    | 112   | 185   | 1.8    |
| 4                               | 5                | 6.5           | ACS250-03U-06A5-6 | P2         | 221    | 112   | 185   | 1.8    |
| 5.5                             | 7.5              | 9             | ACS250-03U-09A0-6 | P2         | 221    | 112   | 185   | 1.8    |
| 7.5                             | 10               | 12            | ACS250-03U-12A0-6 | P3         | 261    | 131   | 205   | 3.5    |
| 11                              | 15               | 17            | ACS250-03U-17A0-6 | P3         | 261    | 131   | 205   | 3.5    |
| 15                              | 20               | 22            | ACS250-03U-22A0-6 | P3         | 261    | 131   | 205   | 3.5    |

U within the type code = EMC disconnected

For more information please contact your local ABB representative or visit:

[www.abb.com/drives](http://www.abb.com/drives)

[www.abb.com/drivespartners](http://www.abb.com/drivespartners)

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