

## ABB micro drives ACS250 IP66/NEMA 4X for harsh environments



ABB micro drive ACS250 with IP66/NEMA 4X enclosure is designed for applications such as; screws, mixers, pumps, fans and conveyors, which are installed in harsh environments containing dust, moisture and cleaning chemicals. The drive's design and ease of setup benefit a broad range of industries.



## Hygienic protection

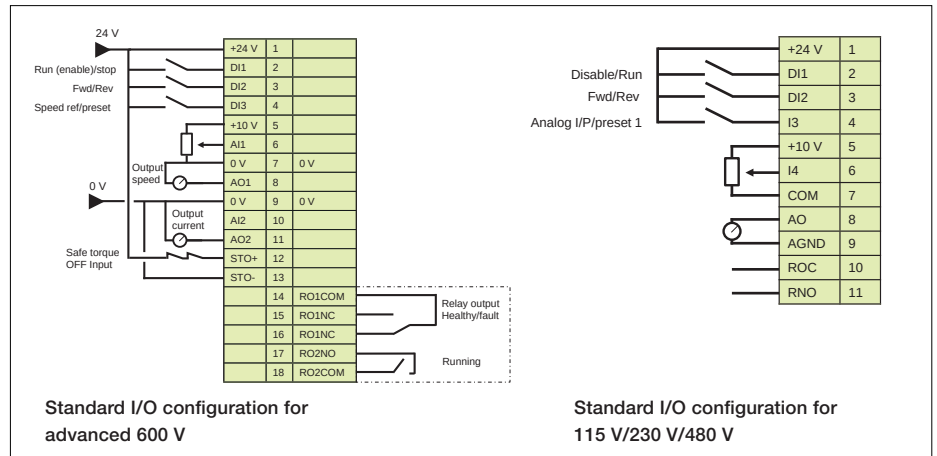
The drive was designed with bacteria resistant materials, meeting stringent hygiene requirements. The integrated keypad provides straightforward drive commissioning and maintenance in extreme environments. The drive's sealed ABS enclosure and corrosion resistant heat sink are ideal for wash-down applications.

## Key features

- Built-in macros and only the essential parameters make commissioning straightforward
- Can be mounted directly on processing equipment installed in extreme environments
- Conduit cable entry
- Intuitive keypad control
- Optional switch features speed potentiometer, FWD-0-REW and power isolator

- IP66/NEMA 4X dust and water proof design
- Designed for wash-down applications
- Specially coated corrosion resistant heat sink
- No external cooling fans to replace
- Modbus RTU fieldbus as standard

## Standard I/O configurations



| Output ratings                  |                  |               | Type designation       | Frame size | Braking<br>chopper | Height | Width | Depth | Weight |
|---------------------------------|------------------|---------------|------------------------|------------|--------------------|--------|-------|-------|--------|
| $P_{N,HD}$<br>kW                | $P_{N,HD}$<br>hp | $I_{2N}$<br>A |                        |            |                    |        |       |       |        |
| 1-phase AC supply, 110 to 120 V |                  |               |                        |            |                    |        |       |       |        |
|                                 | 0.5              | 2.3           | ACS250-01U-02A3-1+B063 | E1         | -                  | 232    | 161   | 175   | 2.8    |
|                                 | 1                | 4.3           | ACS250-01U-04A3-1+B063 | E1         | -                  | 232    | 161   | 175   | 2.8    |
|                                 | 1.5              | 5.8           | ACS250-01U-05A8-1+B063 | E2         | x                  | 257    | 188   | 187   | 4.1    |
| 1-phase AC supply, 200 to 240 V |                  |               |                        |            |                    |        |       |       |        |
| 0.37                            | 0.5              | 2.3           | ACS250-01U-02A3-2+B063 | E1         | -                  | 232    | 161   | 175   | 2.8    |
| 0.75                            | 1                | 4.3           | ACS250-01U-04A3-2+B063 | E1         | -                  | 232    | 161   | 175   | 2.8    |
| 1.5                             | 2                | 7.0           | ACS250-01U-07A0-2+B063 | E1         | -                  | 232    | 161   | 175   | 2.8    |
| 2.2                             | 3                | 10.5          | ACS250-01U-10A5-2+B063 | E2         | x                  | 257    | 188   | 187   | 4.1    |
| 3-phase AC supply, 200 to 240 V |                  |               |                        |            |                    |        |       |       |        |
| 0.37                            | 0.5              | 2.3           | ACS250-03U-02A3-2+B063 | E1         | -                  | 232    | 161   | 175   | 2.8    |
| 0.75                            | 1                | 4.3           | ACS250-03U-04A3-2+B063 | E1         | -                  | 232    | 161   | 175   | 2.8    |
| 1.5                             | 2                | 7.0           | ACS250-03U-07A0-2+B063 | E2         | x                  | 257    | 188   | 187   | 4.1    |
| 2.2                             | 3                | 10.5          | ACS250-03U-10A5-2+B063 | E2         | x                  | 257    | 188   | 187   | 4.1    |
| 4.0                             | 5                | 18.0          | ACS250-03U-18A0-2+B063 | E3         | x                  | 310    | 210.5 | 229   | 7.6    |
| 3-phase AC supply, 380 to 480 V |                  |               |                        |            |                    |        |       |       |        |
| 0.75                            | 1                | 2.2           | ACS250-03U-02A2-4+B063 | E1         | -                  | 232    | 161   | 175   | 2.8    |
| 1.5                             | 2                | 4.1           | ACS250-03U-04A1-4+B063 | E1         | -                  | 232    | 161   | 175   | 2.8    |
| 2.2                             | 3                | 5.8           | ACS250-03U-05A8-4+B063 | E2         | x                  | 257    | 188   | 187   | 4.1    |
| 4.0                             | 5                | 9.5           | ACS250-03U-09A5-4+B063 | E2         | x                  | 257    | 188   | 187   | 4.1    |
| 5.5                             | 7.5              | 14.0          | ACS250-03U-14A0-4+B063 | E3         | x                  | 310    | 210.5 | 229   | 7.6    |
| 7.5                             | 10               | 18.0          | ACS250-03U-18A0-4+B063 | E3         | x                  | 310    | 210.5 | 229   | 7.6    |
| 3-phase AC supply, 500 to 600 V |                  |               |                        |            |                    |        |       |       |        |
| 0.75                            | 1                | 1.7           | ACS250-03U-02A1-6+B063 | P2         | x                  | 257    | 188   | 239.5 | 4.8    |
| 1.5                             | 2                | 3.1           | ACS250-03U-03A1-6+B063 | P2         | x                  | 257    | 188   | 239.5 | 4.8    |
| 2.2                             | 3                | 4.1           | ACS250-03U-04A1-6+B063 | P2         | x                  | 257    | 188   | 239.5 | 4.8    |
| 4.0                             | 5                | 5.8           | ACS250-03U-06A5-6+B063 | P2         | x                  | 257    | 188   | 239.5 | 4.8    |
| 5.5                             | 7.5              | 9.0           | ACS250-03U-09A0-6+B063 | P2         | x                  | 257    | 188   | 239.5 | 4.8    |
| 7.5                             | 10               | 14.0          | ACS250-03U-12A0-6+B063 | P3         | x                  | 310    | 211   | 251.5 | 7.3    |
| 11                              | 15               | 18.0          | ACS250-03U-17A0-6+B063 | P3         | x                  | 310    | 211   | 251.5 | 7.3    |

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)

U within the type code = EMC disconnected.

B063 = IP66/UL TYPE 4X enclosure without input switch.

## 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 from 0.5 to 20 hp