

## Product note

# ABB machinery drives ACS355 IP66 for harsh and demanding conditions



A range of ABB machinery drives with IP66 protection is designed for applications exposed to dust, moisture and cleaning chemicals such as screws, mixers, pumps, fans and conveyors. Typical industries that benefit from the drive include food and beverage, textile, ceramics, pulp and paper, water and wastewater, printing and rubber and plastics just to mention few.

The drives range from 0.37 kW to 4 kW, 3-phase 230 V and 0.37 kW to 7.5 kW, 3-phase 400 V. Certified by NSF the drives are available with enclosure classes IP66/67/69K, UL Type 4X.

### Hygienic protection

The drive's hygienic design, and use of materials meeting current hygiene standards, prevents it from trapping bacteria and helps withstand frequent washing.

Other features designed for moisture and dust intensive areas include an assistant control panel housed within a protective membrane. Furthermore, the drive uses natural convection for cooling, eliminating the need for an external cooling fan.

The drive's die cast aluminium chassis is painted in white and features a glass reinforced polycarbonate cover. It has smooth, slanted surfaces to ensure water drains away. The drive's cover also features a molded gasket which fits precisely within a machined groove, thereby eliminating dirt collection. The wall mounted drive can be located close to the process and the operator.

The heat sink's cooling ribs are completely open from top to bottom, allowing easy washing and ensuring no dirt adheres to the surfaces.

### Maintenance support

The drive features an optional maintenance switch for fast shutdown and safety. Should the drive or motor need maintaining, they can be isolated from the network, ensuring the drive and motor are safe to work on.

Designed for quick installation, parameter setting and commissioning, the drive is based on an existing range of ABB machinery drives and as such it uses proven software features and hardware connections.

### Adaptable to changing needs

Along with an intelligent user interface and support of several languages, other benefits of the drive include safe torque-off function (SIL3) which can be used as emergency stop or to prevent unexpected startup. A permanent magnet motor control mode provides accurate motor control without a speed feedback sensor. Sequence programming allows simple drive control logic to be created in minutes. Pressure relief valve (as option) prevents humidity inside of the drive during temperature changes.

### Ready-made high protection drive package

The ACS355 IP66 drive is a ready-made high protection package. As such, special enclosures that are needed when adapting an IP20 drive into a high protection solution are avoided, thereby reducing engineering costs. Other components, such as a cooling fan, air filter and cable glands are also eliminated, thereby saving on wiring, installation, testing and additional documentation.

The ACS355 IP66 leads to savings in space, maintenance, engineering, material costs and time during set up and commissioning.

### Reasons for choosing ACS355 IP66



For more information please contact:

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