LOW VOLTAGE AC DRIVES

Flange mounting
ACS880 drives, 0.55 to 630 kW

Flange (push through) mounting is designed for outdoor cabinet and harsh environment installations where dust and other impurities are present. It enables simplified and cost-efficient cabinet installation by reducing the need for cooling inside the cabinet.

Optimized for harsh environments

Protection against dust and water
In flange mounting, the drive is installed from a flange onto a cabinet wall so that the heatsink is outside the cabinet, and the air flow through the drive control section and heatsink are separated. The flange and heatsink are protected against dust and low-pressure water with IP55-class protection, making the installation suitable for harsh environments.

Simplified cabinet design
As only the control section is inside the cabinet, less heat is generated within the cabinet. With the reduced need for cooling air, smaller fans or heat exchanger units can be used. Flange mounting simplifies cabinet design and helps to build robust cabinets with smaller installation footprints and lower investment costs.

Savings on air conditioning
The drive can be installed with the heatsink in a cooling air channel to direct the majority of the heat generated by the drive out of the electrical room. Investments in air-conditioning systems and their operating costs are cut, as the need for cooling is substantially reduced.

Minimized need for maintenance
Since the heat generation inside the cabinet is low, smaller air circulation inlets, outlets and associated filters can be used. Reduced air circulation results in longer filter maintenance intervals.
Technical data

**ACS880-01 wall-mounted drives**

- **Power range**: 0.55 to 250 kW
- **Voltage range**: 230 to 690 V

**ACS880-04F drive modules**

- **Power range**: 200 to 630 kW
- **Voltage range**: 380 to 500 V

**ACS880-11 wall-mounted regenerative drives**

- **Power range**: 2.2 to 110 kW
- **Voltage range**: 380 to 500 V

**ACS880-31 wall-mounted ultra-low harmonic drives**

- **Power range**: 2.2 to 110 kW
- **Voltage range**: 380 to 500 V

**Enclosure**

- **Enclosure class**
  - Flange and heatsink: IP55
  - Control section: IP20

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**Key features**

For harsh environments
- Flange and heatsink have an IP55 (NEMA 12) rating.

Optimized for cabinet assembly
- The compact ACS880 has built-in EMC filters, chokes and braking choppers to simplify cabinet design and to enable easy installation.

Reduced need for cooling air
- Improved system reliability and lower total cost through lower heat load in the cabinet
- Possibility to connect to a cooling air channel
- Possibility for back channel cooling
- Available for regenerative and ultra-low harmonic drive variants
- Reduced maintenance intervals of cabinet filters

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**Frame**

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<th>R1</th>
<th>R2</th>
<th>R3</th>
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<td>7.5-30</td>
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Measurements are in mm

1) Measurements for ACS880-01
2) Measurements for ACS880-11/31

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

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