Flange mounting
ACS880 drives, 0.55 to 1200 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.
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 710 kW
Voltage range 380 to 690 V

ACS880-04FXT drive module packages
(2 × R11 ACS880-04F modules connected in parallel)
Power range 400 to 1200 kW
Voltage range 380 to 690 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

Technical data

Frame R1 R2 R3 R4 R5 R6 R7 R8 R9 R11
Power, kW 0.55-5.5 2.2-11 4-22 7.5-30 15-45 22-75 37-110 55-160 45-110 200-710
Flange opening height 385 385 435 520 535 645 595 770 647 727 992 727 1560
Flange opening width 180 180 195 229 230 298 278 330 326 345 425 555
Flange height 459 459 509 614 618 728 672 852 722 814 1102 804 1647
Flange width 271 271 290 323 327 374 374 406 434 433 462 620
Control section depth 145 148 146 184 191 199 194 189 195 202 205 204 221
Heatsink depth 129 145 160 223 150 175 170 191 169 184 224 209 228
Total height 459 459 509 614 618 728 672 852 722 814 1102 804 1680

Measurements are in mm
1) Measurements for ACS880-01
2) Measurements for ACS880-11/31

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