

# Flange mounting ACS880, 0.55 kW to 630 kW



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## Robust and cost-effective installation for harsh environments

In flange mounting, the drive is installed from a flange onto a cabinet wall so that the heatsink is outside the cabinet. This way, the air flow through the drive control section, and the heatsink is separated. The drive can also be installed with the heatsink in a cooling air channel.

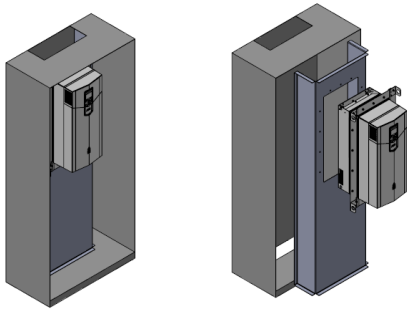
The flange and heatsink have an IP55 (NEMA 12) protection rating, which means that they are protected against dust and low-pressure water.

Flange mounting is especially useful in outdoor cabinet installations and in harsh environment installations where dust and other impurities are present. These types of installations are typical, for example, in the mining, oil and gas, rubber, and textile industries.

**ABB**

### Simplify your cabinet design for harsh environments

Flange mounting enables a simplified cabinet design, because only the control section is inside the cabinet. Compared to traditional cabinet designs, less heat is generated within the cabinet, which reduces the need for cooling air. In practice, this means that smaller heat exchanger units or fans can be used. The cabinet is also physically smaller, resulting in space savings. Thus, flange mounting helps you to build robust cabinets for harsh environments with reduced investment cost.



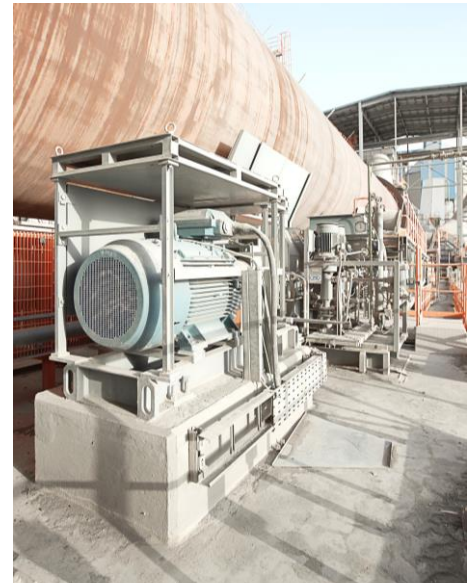
### Save on electrical room air conditioning costs

Flange mounting offers a possibility for easy connectivity to a cooling air channel. With this type of installation, the majority of the heat generated by the drive can be channelled out of the electrical room. This reduces the need for cooling in the electrical room, resulting in lower investment costs for the air conditioning system and lower operating costs.



### Minimize the need for maintenance in dusty environments

In a cabinet design that is cooled using fans, the air circulation is via air inlets and outlets on the cabinet. With flange mounting, smaller inlets, outlets and associated filters can be used, because the heat generation inside the cabinet is low. As the amount of air circulating through the filters is substantially reduced, the filters require less maintenance as well.



The whole ACS880 drive portfolio has been optimized for cabinet assembly. Its compact design minimizes the need for cabinet space. The drives have built-in EMC filters, chokes and braking choppers, simplifying the design process and making installation easy.

Frame	R1	R2	R3	R4	R5	R6	R7	R8	R9	R11
Power, kW	0.75-5.5	7.5-11	15-18.5	22-30	37-45	55-75	90-110	132-160	200-250	400-630
Flange opening height	385	385	435	535	645	595	647	727	727	1454
Flange opening width	180	180	195	230	230	298	330	346	425	555
Flange height	459	459	509	618	728	672	722	814	804	1647
Flange width	271	271	290	327	327	374	406	434	462	620
Total depth	274	293	306	340	373	364	364	386	413	448
Control section depth	145	148	146	191	199	194	195	202	204	221
Heatsink depth	129	145	160	150	175	170	169	184	209	228
Total height	459	459	509	618	728	672	722	814	804	1680

Measurements are in mm

For more information contact your local ABB representative or visit:

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