

Flange mounted drives

ACS880, 1 to 600 hp (0.55 to 630 kW)



The ACS880 portfolio of flange-mount drives have a small footprint and built-in EMC filters and chokes, simplifying the design process and making cabinet installation easy.

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 UL Type 12 (IP55) 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.

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 can also be physically smaller, resulting in space

savings. Flange mounting helps you 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.

Dimensions



Frame	R1	R2	R3	R4	R5	R6	R7	R8	R9	R11
Power, HP (500V Ld)	1-7.5	10-15	20-25	30-40	50-60	75-100	125-150	200	250-350	400-700
Power, kW	0.75-5.5	7.5-11	15-18.5	22-30	37-45	55-75	90-110	132-160	200-250	250-560
Flange opening height	15.16	15.16	17.13	21.06	25.39	23.43	25.47	28.62	28.62	61.42
Flange opening width	7.09	7.09	7.68	9.06	9.06	11.73	12.99	13.62	16.73	21.85
Flange height	18.07	18.07	20.04	24.33	28.66	26.46	28.43	32.05	31.65	64.84
Flange width	10.67	10.67	11.42	12.87	12.87	14.72	15.98	17.06	19.76	24.41
Total depth	10.75	11.55	12.02	13.38	14.69	14.30	14.32	15.17	16.26	18.80
Control section depth	5.69	5.85	5.72	7.50	7.83	7.63	7.67	7.95	8.03	8.70
Heatsink depth	5.06	5.70	6.30	5.88	6.86	6.67	6.65	7.22	8.23	8.98
Total height	18.07	18.07	20.04	24.33	28.66	26.46	28.43	32.05	31.65	68.23

All measurements are in inches



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