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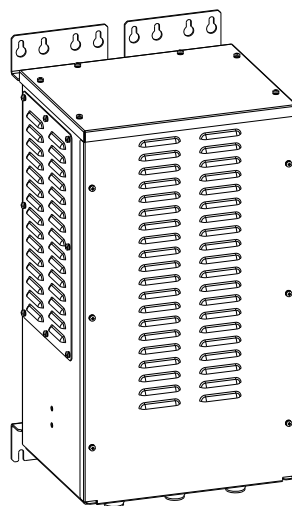
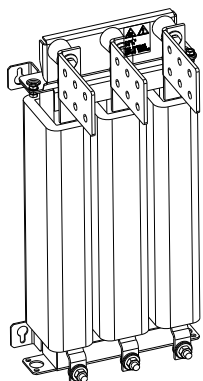
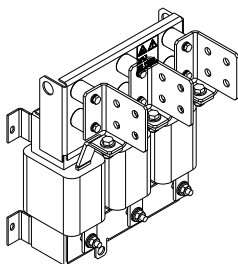
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КОМПЛЕКТУЮЩИЕ ДЛЯ ПРИВОДОВ

Техническое описание

на дроссели

FOСН



Technical data

This chapter contains the technical specifications of the du/dt filter and its installation.

Input voltage (U_1): 380 ... 500 V AC 3-phase $\pm 10\%$, 380 ... 690 V AC 3-phase $\pm 10\%$.

Ratings, weights and maximum cable sizes

Filter type	FOCH0260-70	FOCH0320-50	FOCH0610-70	FOCH0875-70	FOCH0260-72	FOCH0320-52
Order code	68490286	68612217	68550483	3AUA0000125245	3AXD50000030048	3AXD50000030047
U_N (V)	690	500	690	690	690	500
I_N (A)	289	445	720	880	289	445
L (microH)	35	22	22	15	35	22
Power loss (W)	370	520	760	630	370	520
Weight (kg, lb)	47 (104)	65 (143)	65 (143)	65	74 (163)	102 (225)
Maximum motor cable size in mm ²	3×(3×240)	3×(3×240)	3×(3×240)	3×(3×240)	3×(3×240)	3×(3×240)
Output connection size	M12	M12	M12	M12	M12	M12
Input connection size	M10	M12	M12	M12	M10	M12
Degree of protection	IP00	IP00	IP00	IP00	IP22	IP22

3AXD00000588487

Derating:

The load capacity (current and power) decreases if the installation site altitude exceeds 1000 metres (3281 ft), or if the ambient temperature exceeds 40 °C (104 °F).

Temperature derating

In the temperature range +40 °C (+104 °F) to +50 °C (+122 °F), the rated output current is decreased 1% for every additional 1 °C (1.8 °F). The output current is calculated by multiplying the current given in the rating table by the derating factor.

Example If the ambient temperature is 50 °C (+122 °F), the derating factor is $100\% - 1 \cdot \frac{\%}{\text{°C}} \cdot 10 \text{ °C} = 90\%$ or 0.90. The output current is then $0.90 \cdot I_{thmax}$. For I_{thmax} , see [Maximum values table](#) on page 12.

Altitude derating

At altitudes from 1000 to 4000 m (3281 to 13123 ft) above sea level, the derating is 1% for every 100 m (328 ft). For a more accurate derating, use the *DriveSize* PC tool. The value calculated for the drive applies also to its du/dt filter.

Maximum drive output frequency: 120 Hz

Maximum allowed average switching frequency:

3 kHz (converter units with supply voltage < 500 V and 500 V) or
2 kHz (converter units with supply voltage > 500 V)

Change the switching frequency with a drive parameter. If there is no such parameter in the drive software, apply the settings to be used with long motor cables. For example, for the ACS850 drive, set parameter 40.01 Motor noise to value Default. For the ACS880 drive, bit 13 of parameter 95.20 HW options word 1

must be switched on. The setting enables an overtemperature protection for the filter. For further information, see the appropriate firmware and hardware manuals.

Maximum cable length between the drive output and the filter: 3 m

Applicable standards and markings: EN 60204-1, EN 60529, EN 61800-3, EN 50178, UL listed in UL E211945, CSA certified in Certificate 206573, CE marking, UL approved insulation system.

Ambient conditions

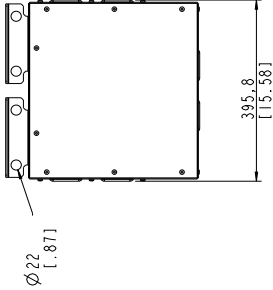
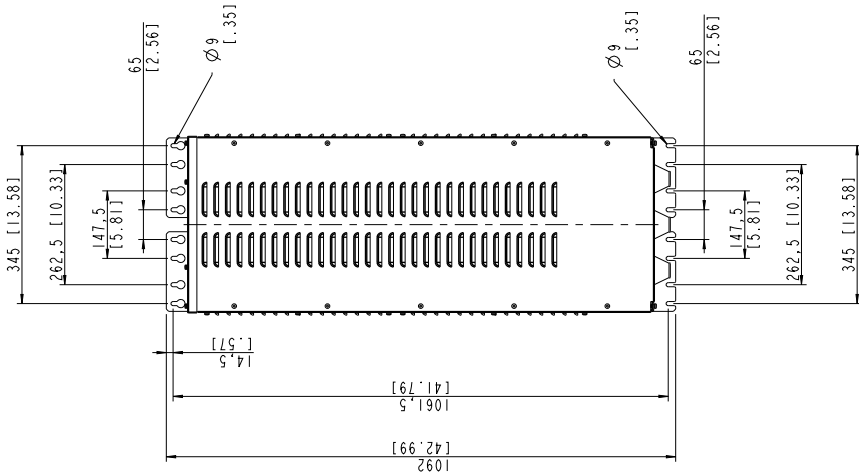
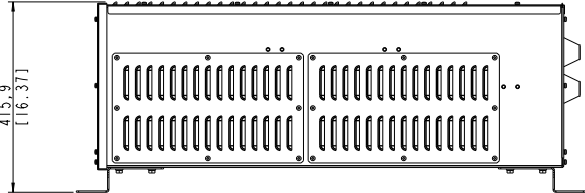
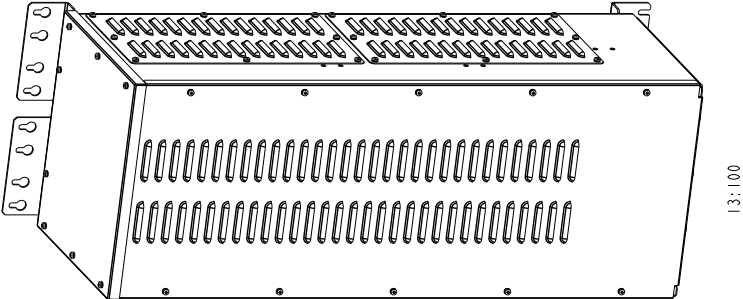
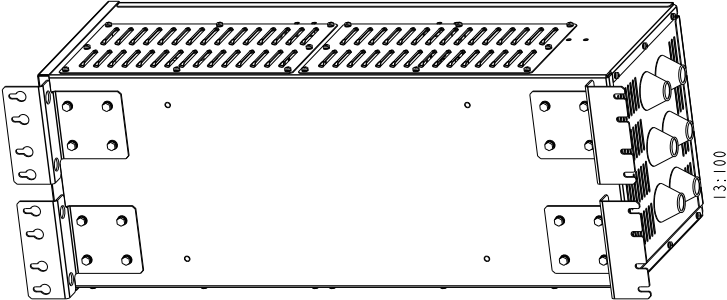
The du/dt filter is to be used in a heated, indoor, controlled environment.

	Operation installed for stationary use	Storage in the protective package	Transportation in the protective package
Installation site altitude	0 to 4000 m (13123 ft) above sea level [above 1000 m (3281 ft), see <i>Derating</i> on page 21.]	-	-
Air temperature	-15 to +50 °C (5 to 122 °F). See <i>Derating</i> on page 21.	-40 to +70 °C (-40 to +158 °F)	-40 to +70 °C (-40 to +158 °F)
Relative humidity	5 to 95%	Max. 95%	Max. 95%
	No condensation allowed. Maximum allowed relative humidity is 60% in the presence of corrosive gases.		
Contamination levels (IEC 60721-3-3, IEC 60721-3-2, IEC 60721-3-1)	No conductive dust allowed.		
	Chemical gases: Class 3C2 Solid particles: Class 3S2	Chemical gases: Class 1C2 Solid particles: Class 1S3	Chemical gases: Class 2C2 Solid particles: Class 2S2
Atmospheric pressure	70 to 106 kPa 0.7 to 1.05 atmospheres	70 to 106 kPa 0.7 to 1.05 atmospheres	60 to 106 kPa 0.6 to 1.05 atmospheres
Vibration (IEC 60068-2)	Max. 1 mm (0.04 in.) (5 to 13.2 Hz), max. 7 m/s ² (23 ft/s ²) (13.2 to 100 Hz) sinusoidal	Max. 1 mm (0.04 in.) (5 to 13.2 Hz), max. 7 m/s ² (23 ft/s ²) (13.2 to 100 Hz) sinusoidal	Max. 3.5 mm (0.14 in.) (2 to 9 Hz), max. 15 m/s ² (49 ft/s ²) (9 to 200 Hz) sinusoidal
Shock (IEC 60068-2-29)	Not allowed	Max. 100 m/s ² (330 ft./s ²), 11 ms	Max. 100 m/s ² (330 ft./s ²), 11 ms
Free fall	Not allowed	203 mm (7.99 in.)	203 mm (7.99 in.)

Materials

Input terminals (U1, V1, W1)	Aluminium
Output terminals (U2, V2, W2)	Tin-plated copper

FOCH0320-52



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