

Supplement

COMBILINE Z2

Capacitor module 00Z2G24-A0xx

Translation of the original manual - Pre-Series

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Imprint

KEB Automation KG
Suedstraße 38, D-32683 Bartrup
Germany
Tel: +49 5263 401-0 • Fax: +49 5263 401-116
E-Mail: info@keb.de • URL: <https://www.keb-automation.com>

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1 Product description

These instructions describe the Z2 capacitor module of the KEB sine wave filters.

It contains

- only supplementary information.
- **Only valid in conjunction with the COMBILINE Z2 output filter installation instructions.**



COMBILINE Z2 output filter

(🌐) <https://www.keb-automation.com/000S>

Document: ma_dr_z2-output-filter-inst_20184032_en



1.1 Type code

The following table describes the type code for KEB capacitor module:

00Z2G24	-	x	x	x	x		Meaning
				L	⊥	01	Seq. number
			┌	—	—	0	Simple design
			L	—	—	2	Double version
		┌	—	—	—	0	Standard version
		┌	—	—	—	1	Rear panel screw connection
		L	—	—	—	A	Alternative design
L	—	—	—	—	—	—	Capacitor module

2 Technical data

2.1 Environmental conditions

Operating temperature	-10...45 °C
Construction/protection type (EN 60529)	IP00
Environment (IEC 664-1)	Degree of contamination 2
Climatic category	3K3

Tab. 1: Environmental conditions

2.2 Electrical data

Rated voltage	400 V
Rated voltage UL	480 V

Tab. 2: Electrical data of the product line

	Max. current at max. frequency	Max. frequency	Capacity in delta ($\pm 10\%$)	Design type	Cable cross-section in mm ²	Cable cross-section in AWG
00Z2G24-A001	80 A	1600 Hz	3 x 8.5 μ F	G	10 mm ²	AWG 8
00Z2G24-A002	150 A	1600 Hz	3 x 18.5 μ F	G	25 mm ²	AWG 4
00Z2G24-A011	80 A	1600 Hz	3 x 10 μ F	G	10 mm ²	AWG 8
00Z2G24-A012	150 A	1600 Hz	3 x 20 μ F	G	25 mm ²	AWG 4
00Z2G24-A014	420 A	800 Hz	3 x 132 μ F	H	2 x 95 mm ²	2 x AWG 3/0
00Z2G24-A041	115 A	800 Hz	3 x 33 μ F	G	25 mm ²	AWG 4
00Z2G24-A042	160 A	800 Hz	3 x 41.5 μ F	G	35 mm ²	AWG 2
00Z2G24-A043	345 A	800 Hz	3 x 99 μ F	H	25 + 95 mm ²	AWG 4 + 3/0
00Z2G24-A052	160 A	800 Hz	3 x 43 μ F	G	35 mm ²	AWG 2
00Z2G24-A062	230 A	800 Hz	3 x 66 μ F	G	2 x 35 mm ²	2 x AWG 2

The technical specifications are designed for standard motors with a maximum rated voltage of 400V.

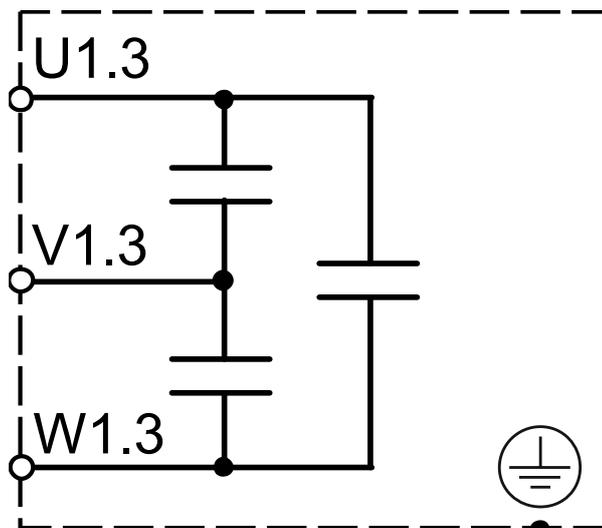


Fig. 1: Schematic diagram 00Z2G24-A0xx design G

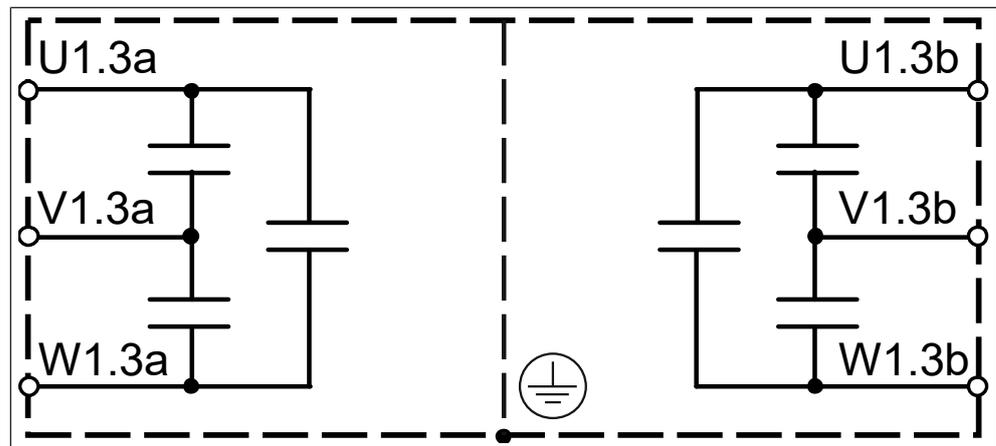


Fig. 2: Schematic diagram _00Z2G24A0xx design H

2.3 Mechanical data

2.3.1 Weight

	Weight in kg	Weight in lb
00Z2G24-A001	3.7 kg	8.16 lb
00Z2G24-A002	6.0 kg	13.23 lb
00Z2G24-A011	3.9 kg	8.6 lb
00Z2G24-A012	6.2 kg	13.67 lb
00Z2G24-A014	14.4 kg	31.75 lb
00Z2G24-A041	4.4 kg	9.7 lb
00Z2G24-A042	6.5 kg	14.33 lb
00Z2G24-A043	11.7 kg	25.79 lb
00Z2G24-A052	6.7 kg	14.77 lb
00Z2G24-A062	7.2 kg	15.87 lb

2.3.2 Dimensions

All dimensions in mm. Tolerances according to ISO 8015.

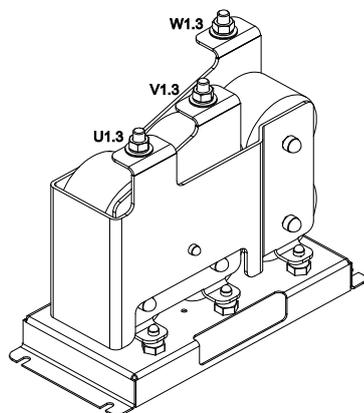


Fig. 3: 3D view 00Z2G24A0xx design G

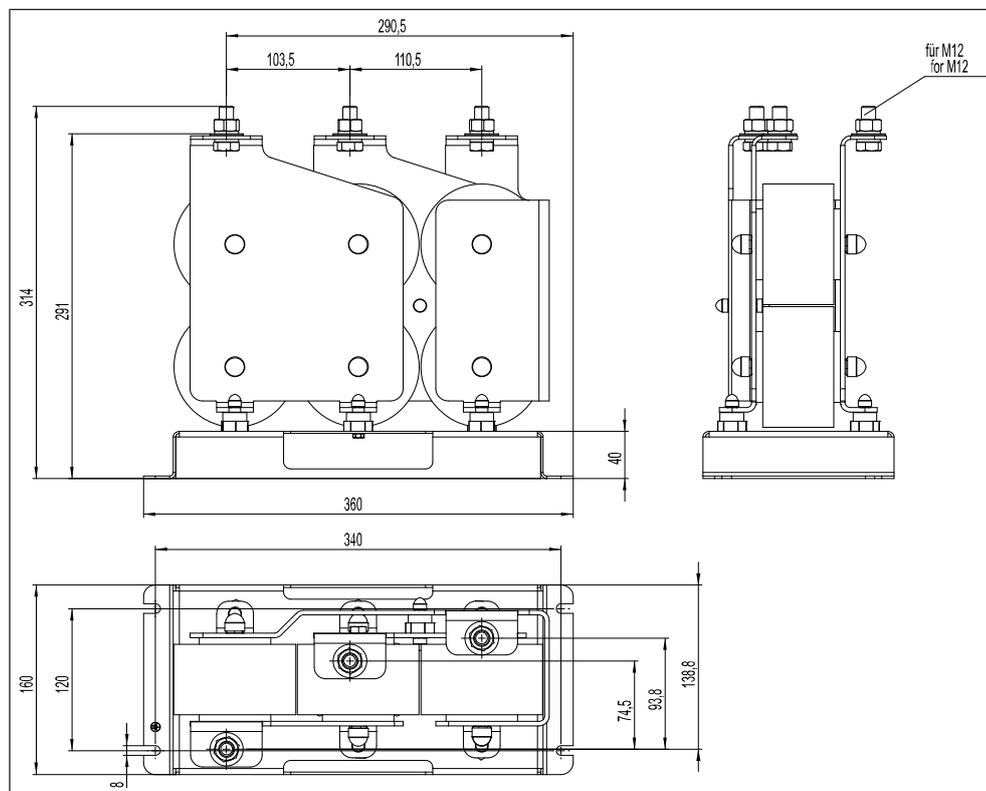


Fig. 4: Dimension 00Z2G24-A0xx design G

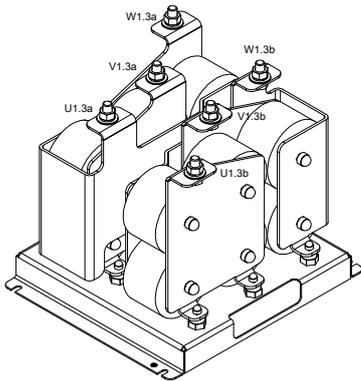


Fig. 5: 3D view 00Z2G24A0xx design H

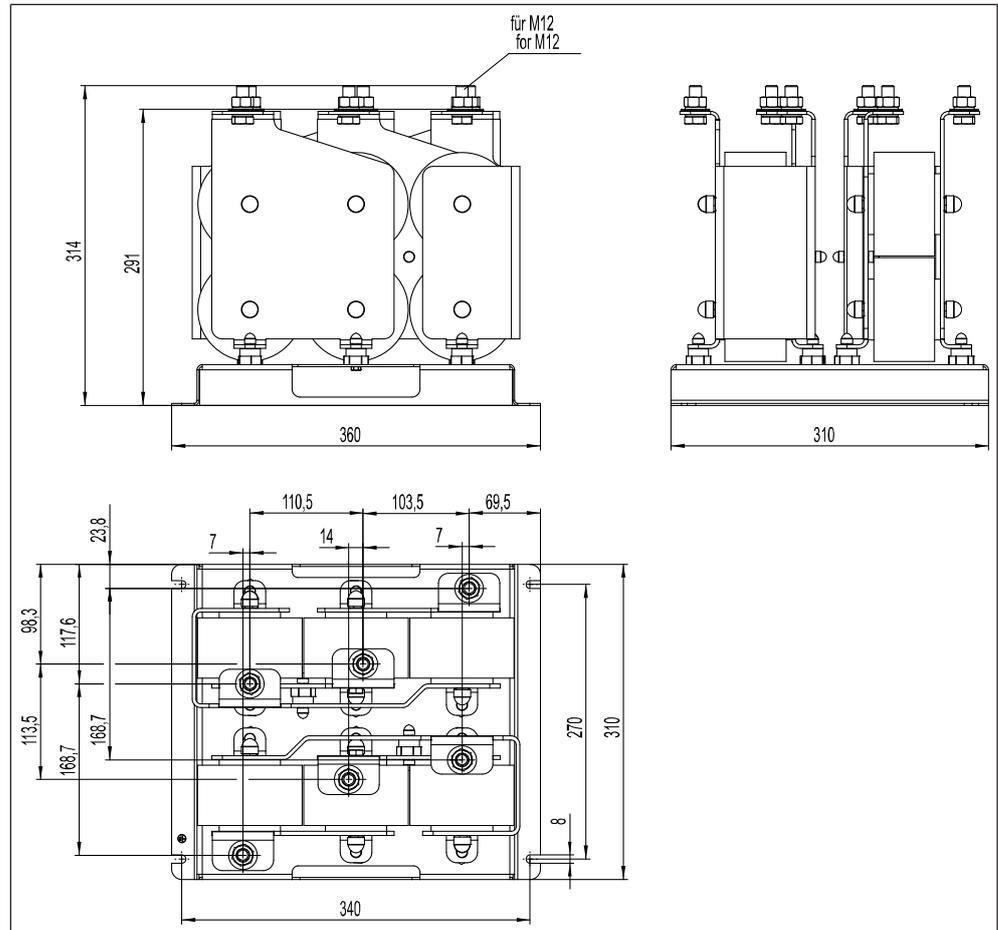


Fig. 6: Dimension 00Z2G24-A0xx design H

3 Assembly

3.1 Installation instructions

KEB capacitor assemblies are designed for installation in an enclosure. Please note the following during installation:

- Observe installation distances in accordance with the instructions for use.
- Installation is carried out in an upright position.
- To prevent heat build-up, do not place the condenser assembly above the throttle.
- If no contact protection is installed, affix appropriate hazard warning signs.
- The dielectric strength of the coating is 600 V.

3.2 Fixing material

Capacitor module	Number	Fixing material	Tightening torque
00Z2G24-Axxx	4 pcs	Screw M8 - 8.8 Flat washer ISO 7092-8-200 HV	8 Nm 70 lbin

4 Installation

4.1 Terminal blocks

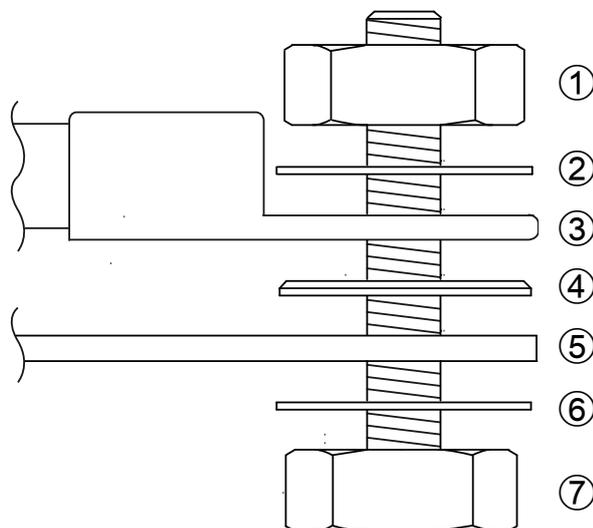


Fig. 7: Fastening screw for connecting cables

① Nut	② Washer
③ Ring cable lug	④ Cupal washer (copper side facing upwards)
⑤ Aluminium sheet	⑥ Washer
⑦ Screw	

NOTICE! Assembly of the Cupal washer:

NOTICE! Aluminium side to aluminium sheet! Copper side to cable lug!

Capacitor module	Connection	Befestigungsmaterial	Tightening torque
00Z2G24-A0xx	U1.3 V1.3 W1.3	Screw M12 - 8.8 Flat washer ISO 7092-8-200 HV	25 Nm 221 lb-ft Lock the screws!
00Z2G24-A014 00Z2G24-A043	U1.3a V1.3a W1.3a U1.3b V1.3b W1.3b	Screw M12 - 8.8 Flat washer ISO 7092-8-200 HV If the cable cross-sections differ, connect the smaller cross-section to terminals a!	25 Nm 221 lb-ft Lock the screws!
00Z2G24-Axxx	PE	Screw M8 - 8.8 Flat washer ISO 7092-8-200 HV	8 Nm 70 lbin



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KEB Automation KG • Suedstraße 38 • D-32683 Barntrup • Tel: +49 5263 401-0 • E-Mail: info@keb.de