

Fiche produit Motralec Ziehl Abegg F DM M - fiche technique | Motralec

■ **DEMANDE DE PRIX RAPIDE** : <https://www.motralec.com/demandeContact>

Frequency inverters www.motralec.com / service-commercial@motralec.com / 01.39.97.65.10 Control technology Main catalogue

Frequency inverters

3~ Fcontrol Basic 5-Step, Speed controller



The 3~ Fcontrol frequency inverters with all-pole effective sine filter are available in the "Basic" version with integrated 5-step switch as speed controllers.

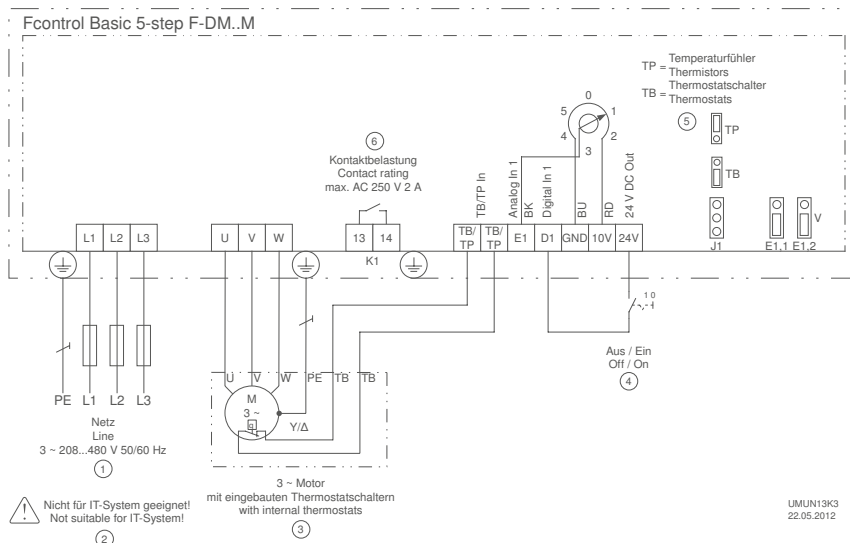
The speed setting is made by setting manually directly in the unit. This makes the devices perfectly suitable for replacing transformer control units by the modern frequency inverters. The frequency inverters control asynchronous motors (external rotor motors, IEC standard motors) gently, requirement-based and energy saving.

Advantages achieved by Fcontrol frequency inverters are:

- High energy saving
- Operation without shielded motor cables
- The cable length is not limited by the Fcontrol
- Operation without electromagnetic motor noises (ideal for noise sensitive areas)
- No danger to motors (these must not be suitable for frequency inverters) because they are supplied with sinusoidal voltage according to the mains voltage.

The 3~ Fcontrol Basic 5-Step inverters are especially suitable for the following applications: General ventilation tasks, agriculture.

Connection diagram



- ① Mains 3~ 208...480 V 50/60 Hz
- ② Not suitable for IT system!
- ③ 3~ motor with built-in thermostats
- ④ Off / On
- ⑤ TP = thermistor; TB = thermostat
- ⑥ Contact load max. AC 250 V 2 A

Interference emission according to EN 61000-6-3 (domestic)
Interference immunity according to EN 61000-6-2 (industrial)

Equipment / properties

Integrated, all-pole effective sine filter

Phase to phase and phase to PE conductor. Thus sinusoidal output voltage. Frequency inverter typical measures such as shielded motor cables are not necessary.

Simple operation and setting

Desired speeds are set by the 5-step switch

1 digital input

D1 – 24 V: Enable function On/Off

1 potential-free fault indication contact

The contact drops out in the event of a fault. Max. load 250 V, 2A

Integrated motor protection function

Connection possibility for thermostat "TB" or thermistor "TP"

Fcontrol Basic 5-step										
3~ 208...480V 50/60Hz										
Type	Article no.	Rated voltage	Rated current	Rated temperature	Max. line fuse	Max. heat dissipation	Maximum ambient temperature	Protection class	Weight	Dimensions (W x H x D)
		V	A	°C	A	W	°C		kg	mm
F-DM2.5M	308255	400	2.5	40	6	50	55	IP54	2.80	240 x 284 x 132
F-DM5M	308256		5	55	10	90	55		5.50	250 x 302 x 212
F-DM8M	308257		8	40	10	140	55		6.40	250 x 302 x 212
F-DM10M	308258		10	55	16	200	55		6.90	250 x 302 x 212
F-DM16M	308304		16	40	20	360	55		7.10	250 x 302 x 212

Devices with a rated temperature below 55 °C can be used up to 55 °C with a reduction in performance.

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Ventilateur Ziehl Abegg F DM M



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