

Fiche produit Motralec Ziehl Abegg FXDM A - fiche technique | Motralec

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







Frequency inverters [www.motralec.com](http://www.motralec.com) / [service-commercial@motralec.com](mailto:service-commercial@motralec.com) / 01.39.97.65.10 Control technology Main catalogue

# Frequency inverters

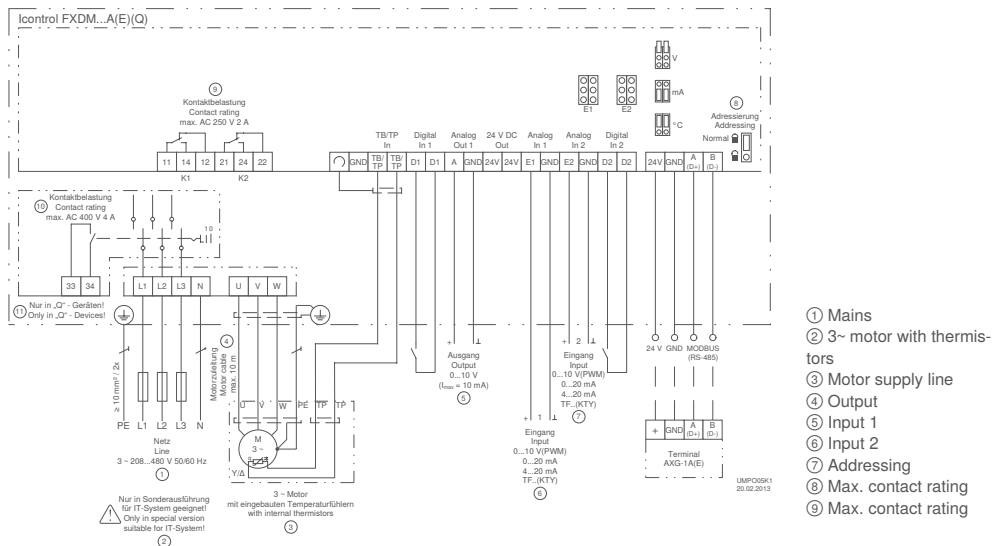
3~ Icontrol, universal controller with display



The Icontrol frequency inverters are provided preferably for the requirement-based and energy saving speed control of internal rotor motors (IEC standard motors). All ZIEHL-ABEGG sensors can be combined with the universal frequency inverters. The actual value measured at the sensor is compared with the setpoint. This results in activation of the connected fan. It can be controlled to air flow or differential pressure especially for application in air conditioning. Simple start-up is possible with the selectable operating modes available in the device. Processes in other application areas can also be controlled. The frequency inverters can be used flexibly. Versions with integrated main switch are available optionally.

-  Setting of the desired speed through device or by external default, e.g. 0...10 V
-  Connecting pressure sensors (refrigeration), e.g. type MBG.. sensors, measuring range 0...30 bar, 0...50 bar
-  Connection of thermistors, e.g. sensors type TF.. e.g. active sensor type MTG..
-  Connecting differential pressure sensors (air conditioning), e.g. type MPG.. sensors, measuring range 0...6000 Pa, acquisition of volume flows up to 65000 m³/h
-  Connecting air velocity sensors, e.g. type MAL.. sensors, measuring range 0...1 m/s, 0...10 m/s
-  Connecting additional sensors, e.g. combination sensors, CO<sub>2</sub>, sensor signal 0...10 V / 0...20 mA / 4...20 mA

Connection diagram



## Standard conformity

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

## Equipment/characteristics:

### Multifunctional display with plain text:

Various menu languages can be selected

### Simple commissioning through operating modes:

Typical operating modes, e.g. for air-conditioning, refrigeration or ventilation technology can be selected.

### Easy to program:

Typical settings can be made: e.g., default a minimum rotational speed, limit the maximum rotational speed, inverting and limits. Setting, e.g. for 2-stage mode

### 2 analogue inputs for sensors or set-point signals:

Analogue input E1 and E2: Setting through operating modes or manually programmable, e.g. 0-10 V, 0-20 mA, 4-20 mA  
 Analogue input E2: programmable, e.g. comparison to Sensor 1, difference Sensor 1, average calculation, setpoint input, setpoint adjustment (e.g. dependent on outdoor temperature)

### 2 digital inputs D1 and D2:

Programmable, e.g. enable, switchover setpoint 1 or 2, switchover control or manual mode, switchover E1 or E2, invert control function, output limitation, display of external fault, reset, reverse the rotary direction

### 1 analogue output A1:

Setting through operating modes or manually programmable, e.g. e.g. output signal proportional control, output signal proportional input signal, invertible, 10 V fixed voltage, group control

### 2 digital outputs (relays) K1 and K2:

Setting through operating modes or manual programming, e.g. operating status, limits, external fault on digital input, enabling external devices, e.g. heating, dampers, group control of fans, etc.

### Integrated motor protection function:

Connection facility for PTC thermistors or alternatively thermal contacts (TB or TP).

### Interface RS485 MODBUS RTU:

Integration into bus system

### Settings protection:

Enable settings protection from unauthorised access, restore implemented settings

### Event memory:

Query events that have occurred, operating times, etc.

## Optional equipment

The Icontrol frequency inverters are also available with an integrated main switch.

### Type designation FXDM...AQ

The integrated main switch has the switch positions 0 and I (On/Off). In position 0 the switch can be locked with a padlock. An integrated auxiliary contact can be used to indicate the switch position. This enables you to recognise whether the switch has been actuated, for example, when a fault indication relay drops out.

### Add-on modules for frequency inverters

- IO add-on module type Z-Modul-B, Article No. 380052  
 If the integrated inputs and outputs are not sufficient, other inputs and outputs can be created with the Z-Modul-B. These are also programmable:
  - 1 analog input
  - 1 analog output
  - 3 digital inputs
  - 2 digital outputs (relays)
- LON® Add-on module type Z-Modul-L, Article No. 380086  
 For integration into a bus system LON® by a two-wire

Information

Motor protection

Fcontrol, Icontrol

UNIcon

Acontrol, Ucontrol, Dcontrol

Transformer

System components

Appendix

# Frequency inverter

## 3~ Icontrol, universal controller with display

Icontrol without main switch											
3~ 208...480V 50/60Hz											
Type	Article no.	Rated voltage	Rated current	Rated power	Rated temperature	Max. line fuse	Max. heat dissipation	Maximum ambient temperature	Protection class	Weight	Dimensions (W x H x D)
		V	A	kW	°C	A	W	°C		kg	mm
<b>FXDM2.6A</b>	<b>308063</b>	400	2.6	1.1	40	6	45	55	IP54	3.20	240 x 284 x 115
<b>FXDM4.2A</b>	<b>308148</b>		4.2	1.5	40	10	70	55		6.40	250 x 302 x 195.5
<b>FXDM5A</b>	<b>308149</b>		5	2.2	40	10	80	55		6.40	250 x 302 x 195.5
<b>FXDM7.5A</b>	<b>308150</b>		7.5	3	40	10	125	55		7.30	250 x 302 x 195.5
<b>FXDM8.5A</b>	<b>308151</b>		8.5	4	40	10	150	55		7.30	250 x 302 x 195.5
<b>FXDM12A</b>	<b>308152</b>		12	5.5	40	16	210	55		7.50	250 x 302 x 195.5
<b>FXDM17A</b>	<b>308153</b>		17	7.5	40	20	300	55		7.50	250 x 302 x 195.5
<b>FXDM25A</b>	<b>308112</b>		25	11	40	35	480	55		12.50	280 x 355 x 239
<b>FXDM32A</b>	<b>308078</b>		32	15	50	35	750	55		24.50	386 x 525 x 283
<b>FXDM39A</b>	<b>308080</b>		39	18.5	55	50	900	55		26.30	386 x 525 x 283
<b>FXDM46A</b>	<b>308088</b>		46	22	50	50	1050	55		26.30	386 x 525 x 283
<b>FXDM62A</b>	<b>308092</b>		62	30	40	63	1250	55		26.30	386 x 525 x 283

Devices with a rated temperature below 55 °C can be used up to 55 °C with a reduction in performance  
 rated power = power rating of the internal rotor motor. The motor rated current is decisive for the assignment of the frequency inverter.



# Frequency inverter

## 3~ Icontrol, universal controller with display

Icontrol with main switch											
3~ 208...480V 50/60Hz											
Type	Article no.	Rated voltage	Rated current	Rated power	Rated temperature	Max. line fuse	Max. heat dissipation	Maximum ambient temperature	Protection class	Weight	Dimensions (W x H x D)
		V	A	kW	°C	A	W	°C		kg	mm
<b>FXDM2.6AQ</b>	<b>308161</b>	400	2.6	1.1	40	6	45	55	IP54	3.40	240 x 284 x 149
<b>FXDM4.2AQ</b>	<b>308162</b>		4.2	1.5	40	10	70	55		6.60	250 x 302 x 229.5
<b>FXDM5AQ</b>	<b>308163</b>		5	2.2	40	10	80	55		6.60	250 x 302 x 229.5
<b>FXDM7.5AQ</b>	<b>308164</b>		7.5	3	40	10	125	55		7.50	250 x 302 x 229.5
<b>FXDM8.5AQ</b>	<b>308165</b>		8.5	4	40	10	150	55		7.50	250 x 302 x 229.5
<b>FXDM12AQ</b>	<b>308166</b>		12	5.5	40	16	210	55		7.70	250 x 302 x 229.5
<b>FXDM17AQ</b>	<b>308167</b>		17	7.5	40	20	300	55		7.70	250 x 302 x 229.5
<b>FXDM25AQ</b>	<b>308168</b>		25	11	40	35	480	55		12.80	280 x 355 x 273
<b>FXDM32AQ</b>	<b>308169</b>		32	15	50	35	750	55		25.30	386 x 525 x 317
<b>FXDM39AQ</b>	<b>308170</b>		39	18.5	55	50	900	55		27.10	386 x 525 x 317
<b>FXDM46AQ</b>	<b>308171</b>		46	22	50	50	1050	55		27.10	386 x 525 x 317
<b>FXDM62AQ</b>	<b>308172</b>		62	30	40	63	1250	55		27.10	386 x 525 x 317

Devices with a rated temperature below 55 °C can be used up to 55 °C with a reduction in performance  
 rated power = power rating of the internal rotor motor. The motor rated current is decisive for the assignment of the frequency inverter.

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Appendix

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## Besoin d'un prix ou d'un conseil technique ?

Ventilateur Ziehl Abegg FXDM



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- Devis rapide et conseil technique par nos spécialistes
- Plus de 200 000 références et 30 marques distribuées
- Vente, réparation, bobinage et SAV en atelier
- Livraison partout en France, accompagnement avant et après-vente

Voir la gamme Ziehl Abegg sur notre site :

[www.motralec.com/.../ziehl-abegg](http://www.motralec.com/.../ziehl-abegg)

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