

Fiche produit Motralec Ziehl Abegg Electronic Voltage Controllers PXDM - fiche technique | Motralec

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Electronic voltage controllers www.motralec.com / service-commercial@motralec.com / 01.39.97.65.10

Electronic voltage controllers

3~ Ucontrol, universal controller with display



Most ZIEHL-ABEGG external rotor motors are voltage controllable. For simple and cost-effective speed control of these motors or fans, electronic voltage controllers can be supplied.

For the various applications in refrigeration, air-conditioning and general ventilation technology we supply universal devices from the Ucontrol product family.

These universal control devices also provide an option to control based on temperature, pressure (for example refrigerant pressure in cooling equipment), differential pressure in ventilation systems, or other physical factors.

The Ucontrol universal devices are ideal for following applications: refrigeration, air conditioning, agriculture, general air supply and ventilation jobs, clean room technology. By selecting pre-programmed operating modes, fast commissioning for typical applications in the stated sectors is possible.

Input for sensors or speed settings through



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

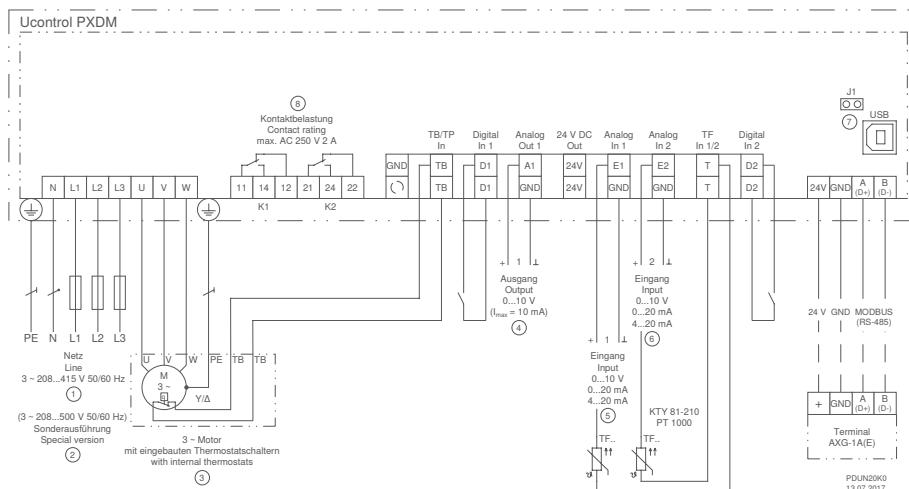


Connecting air velocity sensors, e.g. type MAL.. sensors, measuring range 0...1 m/s, 0...10 m/s



Connecting additional sensors, e.g. combination sensors, CO₂, sensor signal 0...10 V / 0...20 mA / 4...20 mA

Connection diagram



- ① Line
- ② Special version
- ③ 3~ motor with built-in thermostats
- ④ Output
- ⑤ Input
- ⑥ Jumper for boot loader
- ⑦ Contact load

Standard conformity

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

Equipment/properties

LC multi-function display with plain text display:

Different menu languages can be selected

Simple start-up by operating modes:

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

Simple programmability:

Typical settings can be made easily: e.g. minimum speed setting, limitation of the maximum speed, inversions and limits. Setting, e.g. for 2-step mode

2 analog inputs for sensors or setting signals:

analog input E1 and E2: Setting by operating modes or manually programmable, e.g. 0-10 V, 0-20 mA, 4-20 mA
 analog input E2: programmable, e.g. comparison with sensor 1, difference to sensor 1, average value formation, setpoint setting, setpoint adaptation (e.g. outdoor temperature-dependent)

2 digital inputs D1 und 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

1 analog output A1:

Setting by operating modes or manually programmable, e.g. output signal proportional to modulation, output signal proportional to input signal, invertible, 10 V constant voltage, group control

2 digital outputs (relays) K1 and K2:

Setting by operating modes or manually programmable, e.g. operating indication, fault indication, limits, external fault at digital input, activation of external devices, e.g. heating, shutters, group control, fans, etc.

Integrated motor protection function:

Connection possibility for PTC thermistors or alternatively thermostats (TB or TP).

Interface RS485 MODBUS RTU:

Integration into bus system

Interface USB:

For e.g. software update, communication with PC

Set protection:

Activation set protection against unauthorised access, restoration of made settings

Event memory:

Querying of occurred events, operating times, etc.

Optional equipment

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**

Information

Motor protection

Fcontrol, lcontrol

UNicon

Acontrol, Ucontrol, Dcontrol

Transformer

System components

Appendix

Ucontrol, universal controller with display

3~ 208...415V 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
PXDM6A	304594	400	6	40	10	30	55	IP54	2.25	240 x 284 x 115
PXDM10A	304595		10	45	16	50	55		2.75	240 x 284 x 115
PXDM12A	304596		12	40	16	75	55		3.65	270 x 323 x 146
PXDM15A	304597		15	40	20	100	55		4.95	270 x 323 x 146
PXDM20A	304598		20	45	25	200	55		5.50	250 x 302 x 195.5
PXDM25A	304599		25	45	35	270	55		11.10	280 x 355 x 239
PXDM35A	304600		35	50	50	440	55		11.15	280 x 355 x 239
PXDM50A	304639		50	40	63	170	55		20.00	386 x 525 x 283
PXDM80A	304640		80	40	100	270	55		21.00	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.

Ucontrol, universal controller for increased ambient temperature with display

3~ 208...415V 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
PXDM6AZ	304607	400	6	50	10	25	55	IP54	2.25	240 x 284 x 115
PXDM10AZ	304608		10	50	16	45	55		2.75	240 x 284 x 115
PXDM12AZ	304609		12	50	16	70	55		3.65	270 x 323 x 146
PXDM15AZ	304610		15	50	20	95	55		4.95	270 x 323 x 146
PXDM20AZ	304611		20	50	25	190	55		5.50	250 x 302 x 195.5
PXDM25AZ	304612		25	50	35	260	55		11.10	280 x 355 x 239
PXDM35AZ	304613		35	55	50	430	55		11.15	280 x 355 x 239
PXDM50AZ	304645		50	50	63	160	55		18.60	386 x 525 x 283
PXDM80AZ	304646		80	50	100	255	55		19.60	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.

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

Controllers Ziehl Abegg ELECTRONIC VOLTAGE CONTROLLERS PXDM



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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

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