



Frequency inverter VECTOR basic 370 for decentralized mounting. Set-point adjustments by keypad



Frequency inverter VECTOR basic 370 for decentralized mounting with integrated analog set-point potentiometer



Frequency inverter VECTOR basic 370 for decentralized mounting with integrated emergency stop button



Frequency inverter VECTOR *basic*

MSF-Vathauer Antriebstechnik GmbH & Co KG
Am Hessentuch 6-8
32758 Detmold

Tel: +49 5231 - 66193 und 63030
Fax: +49 5231 - 66856

info@msf-technik.de
www.msf-technik.de



Frequency inverter VECTOR *basic*

The decentralized frequency inverter

The installation

The installation of the frequency converter is done by a device mounted on the mounting support. By means of prepared mounting holes the unit is attached directly to the machine. The drive can be mounted in any position, due to internal cooling. The high degree of protection IP44 ensures reliable protection of electronics against dirt and moisture and enables a wide range of applications.

The mains and motor connection

Attention was paid to a fast and safe connection of the power supply of 230Vac using cable glands on internal PUSH IN spring-loaded terminals. This shortens the connection time and can be performed without special tools. The motor cable is also connected to PUSH IN spring-loaded terminals. The strain relief is realized by this. Through the device's standard and optimized filters it is possible to connect, WITHOUT shielded motor cables up to a max. 1m length, each asynchronous motor.

This not only saves labor, but also costs for the motor cables. Each standard cable can be used here. The built-in motor protection feature protects your motor from overheating. Here, both a PTO and a PTC can be used..

The device settings

The device setting is enabled through a built-in enclosure 2-button control concept. By the built-in 7-segment LED display, all device settings are displayed.

Advantage of this operating concept is simple and safe operability and readability of the display, even with hidden and inaccessible installation of the device in use.

All necessary device parameters can in preset value ranges adapted individually to the requirements and are stored in the device. The motor speed is also set by the 2-button control concept.

The resulting set motor speed can be stored in the device. If the power fails, the motor speed is reproducible available.

The preset device settings in the unit ensure immediate operation after connecting the power supply and motor.

Restart-stop

The integrated function of the restart-stop prevents a restart after loss of AC voltage by an example, emergency stop switch. Upon resumption of power supply the frequency converter must be by the power button switched on again by the operator. Thus, this device meets the required machinery directive at no extra charges.

Options:

1. An optional integrated setpoint potentiometer is also available on demand. In this case the setpoint is adjustable by a rotation potentiometer instead of push-button.
2. If a shielded motorcable is in usage, an optional EMC-Set is available on demand. The shield is placed in a cable clamp and fixed.

The casing

The frequency converter developed for this rugged plastic casing is designed for quick and easy installation. The built-in controls allow the setting of device parameters and motor speeds on site.

Technical Data and Specifications

Type	Vector basic
Output power	0,85 kVA
Max. motor power	0,37 kW
Rated voltage	230 V 50/60 Hz
Rated current	2,2 A
Output voltage	3 x 230 V
Output frequency	0 – 99 Hz
Input- Output filter	Internal
Protection degree	IP 44
Ambient temperature	0 – 40 °C
Connection Line In and motorcable	PUSH-IN terminals
Casing	Plastic
Dimension (HxWxD)	220 x 108 x 66mm
Part-no VECTOR basic	10 100001 0314
Part-no VECTOR basic with rotation setpoint potentiometer	10 100001 0315
Part-no VECTOR basic with emergency stop button	10 100001 0318
Part-no EMC-Set	10 100001 0316

Advantages of VECTOR basic

- Un-Shielded motor cable until 1m length
- Easy and quick parameterization
- Compact design
- Simple connection by PUSH-IN terminals
- Optional integrated rotation setpoint potentiometer, emergency stop button, or EMC-set