

REOVIB MFS 268 IP20

IP 20, Frequency-control with automatic detection of the resonant frequency



Unique Selling Point

- REO frequency units are able to control a vibratory conveyor independently of the mains input frequency
- Automatic search of the resonant frequency of the vibratory conveyor system (with additional vibration amplitude sensor) and option of regulating vibration amplitude – Able to regulate the vibration amplitude to maintain a constant feed rate irrespective of load or changes in the mechanical system
- Can be supplied with field bus interfaces: ProfiNet, EtherNet/IP, EtherCAT, CAN-Bus, Profibus, DeviceNet and RS232
- Optional versions available with UL/CSA accreditation
- Conveyor frequencies adjustable between 5...300 Hz
- Mains voltage compensation with constant vibration amplitude
- All settings can be made using the integrated display
- Sinusoidal output current
- Can be used on 110 V or 240 V autom. Detection
- User settings can be stored
- Fill level/overflow control
- Versions available in various protection classes and with various connection options
- MFS 269 is available with AC output signal for use with permanent-magnet armature.

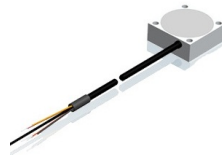
Description

Frequency converters in the REOVIB MFS 268 series for vibratory conveyor technology offer the option of operating the vibratory conveyor at an optimal vibration frequency for the material - completely independently of the frequency of the electrical mains supply.

It is moreover possible, thanks to the system patented by REO, to determine the resonant frequency of the vibratory system automatically and to regulate the vibration amplitude to constant values. In addition, various sensor and valve logic links can be programmed. Devices can optionally be equipped with field bus interfaces, and are also available as versions with UL/CSA certification.

Devices in the REOVIB MFS 268 series are available with a max. output current of 3A, 6A, 8A and 16 A as IP20 versions for installation in switch cabinets.

Suitable sensor:



REOVIB SW in IP54 design with free leads e.g. SW 10

Technical Data

- Output voltage : 0 - 100 / 0 - 205 V
- Output Current : max 3 / 6 / 8 / 16 A
- Input voltage auto detect : 110 / 230 V

ID numbers

Description	Standard unit ID#	UL listed ID#
MFS 268 3A IP20	621605	621607
MFS 268 6A IP20	621612	621614
MFS 268 8A IP20	621624	621621
MFS 268 16A IP20	621109	621117

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Technical data

Mains input	110 / 230V
Mains frequency	50 / 60 Hz +/- 3 Hz
Output voltage	0...100 V / 0...205 V
Output current	max. 3 A / 6 A / 8 A / 16 A
Vibration frequency	5...150 Hz (Optional 300 Hz)
Setpoint value	Display, Potentiometer, 0...10V, 0...20 mA
Status signal	Changeover relay 250 V, 1A
Ext. Enable	24 V DC, Switch
Valve output	24 V, 150 mA (Option)
Sensor supply	24 V DC
Setting Umin / Umax	LED-Display
Soft start	Adjustable 0...5 sec.
Fill level/overflow control	PNP, 24 V DC
Coarse/fine control	x
Vibration amplitude regulation	x
Resonant frequency search	x
Selectable timer function	x
Sensor time out monitor	x
Mains voltage compensation	x
Field bus interfaces	EtherNet/IP, EtherCat, DeviceNet, RS232, CAN-Bus, Profibus-DP, DeviceNet
Standard Conformity	UL (Option), CE, RoHS
Protection class	IP20

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Available with numerous fieldbus interfaces (also with UL option):



REOVIB MFS 268 IP20
CAN bus interface (CAN)
[Config. file CAN Bus \(eds\)](#)



REOVIB MFS 268 IP20
DeviceNet interface (DN)
[Config. file DeviceNet \(eds\)](#)



REOVIB MFS 268 IP20
EtherCAT interface (EC)
[Config. file EtherCat-V01 \(xml\)](#)
[Config. file EtherCat-V02 \(xml\)](#)



REOVIB MFS 268 IP20
ProfiNet interface (PN)
[Config. file Profinet-V01 \(gsdml\)](#)
[Config. file Profinet-V02 \(gsdml\)](#)



REOVIB MFS 268 IP20
Profibus interface (DP)
[Config. file Profibus \(gsd\)](#)



REOVIB MFS 268 IP20
Ethernet/IP interface (EIP)
[Config. file EthernetIP \(eds\)](#)



REOVIB MFS 268 IP20
RS232 interface (RS)

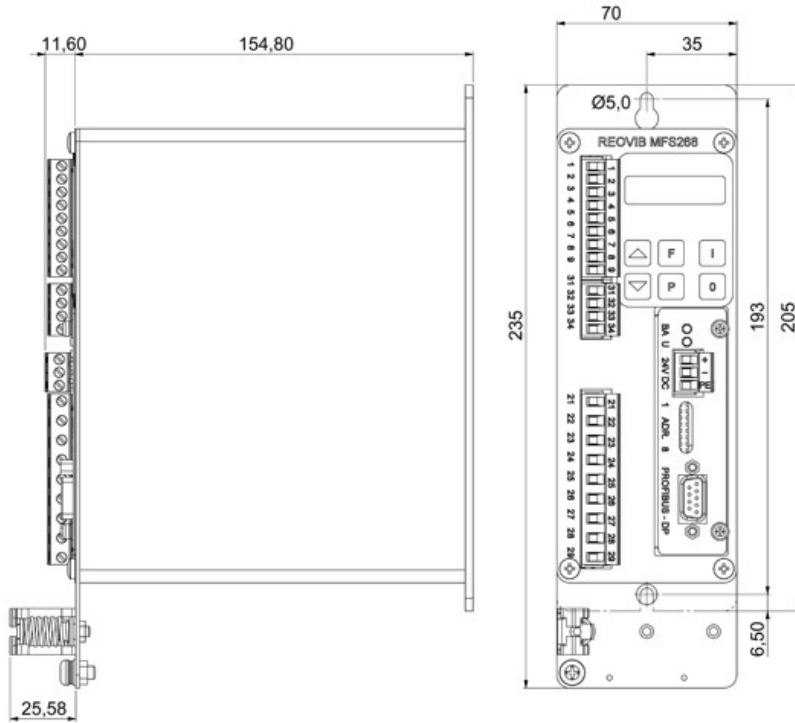
ID numbers

Description	Standard unit with interface ID#				UL listed with interface ID#		
	3A	6A	8A	16A	3A	6A	8A
MFS 268 DN IP20	621812	621822	621832	621842	621862	621872	621882
MFS 268 DP IP20	621811	621821	621831	621841	621861	621871	621881
MFS 268 RS IP20	621818	621828	621838	621848	621868	621878	621888
MFS 268 CAN IP20	621813	621823	621833	621843	621863	621873	621883
MFS 268 EC IP20	621814	621824	621834	621844	621864	621874	621884
MFS 268 EIP IP20	621815	621825	621835	621845	621865	621875	621885
MFS 268 PN IP20	621817	621827	621837	621847	621867	621877	621887

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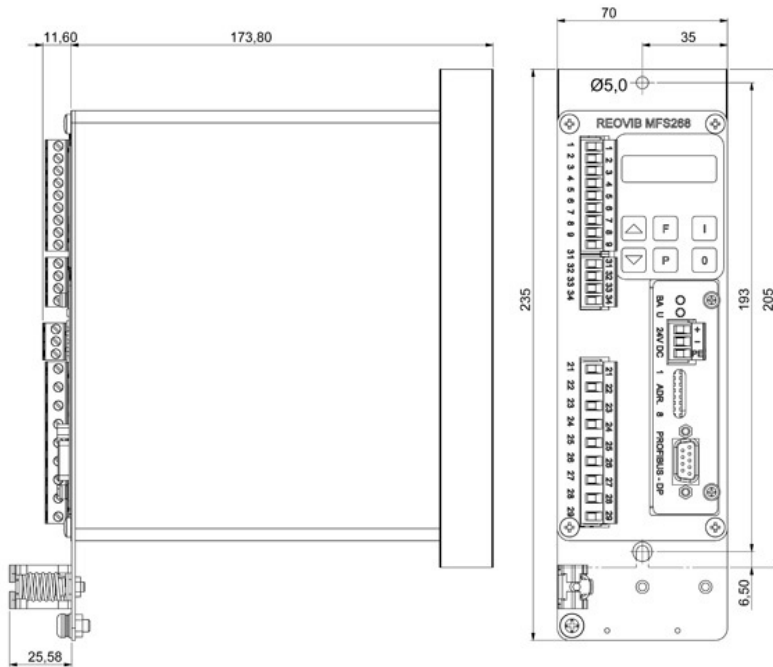
Dimension drawing IP 20 - 3A



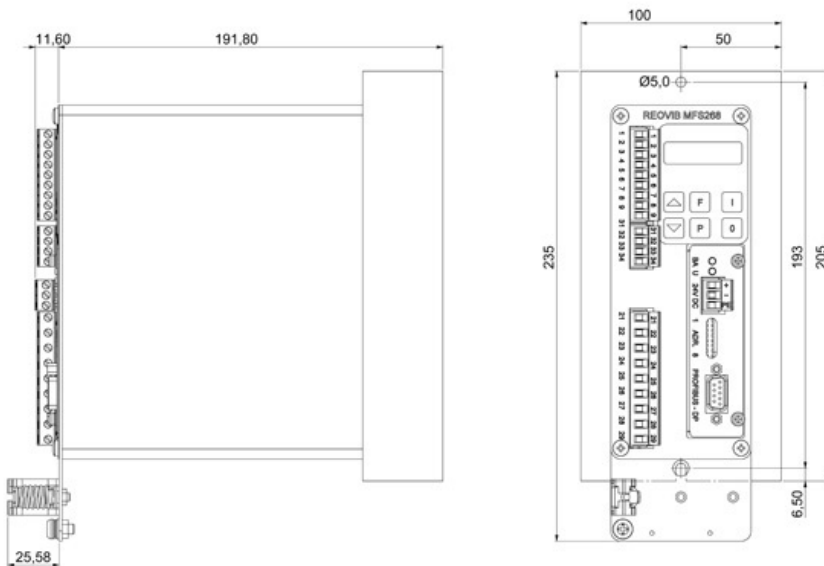
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IP 20, Frequency-control with automatic detection of the resonant frequency

Dimension drawing IP 20 - 6A



Dimension drawing IP 20 - 8A



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IP 20, Frequency-control with automatic detection of the resonant frequency

Dimension drawing IP 20 - 16A

