



Frequency converters

Frequency converters

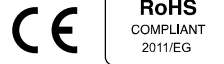
REOVIB MFS series

Frequency converters for vibratory conveyors

REOVIB MFS frequency converters for vibratory conveyors generate a drive voltage and frequency that is independent of the mains input frequency. Any frequency may be selected to ensure that the vibratory conveyor performs perfectly.

REOVIB MFS device are available as a module for mounting in a switch cabinet IP20 or as a housing design in IP54 for mounting directly on the vibrating machine

The devices utilise digital technology and are operated via a LED or LCD display and buttons. All settings can be made externally, without the housing having to be opened. Thanks to technology patented by REO, it is possible with REOVIB MFS 168 and REOVIB MFS 268 frequency converters to perform an automatic search for and to track the resonant frequency of the vibratory conveyor system. This reduces the assembly time considerably and also ensures that conveyors provide optimum performance at all times.



Advantages

- Inexpensive frequency-control devices with the vital functionality
- Frequency-control device for controlling a vibratory conveyor independently of the mains input frequency
- Conveyor frequencies adjustable between 35...140 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 mains, auto sensing.
- User settings can be stored
- With fill level/overflow control
- Versions available in various protection classes and with various connection options



REOVIB MFS 158 IP54

REOVIB MFS 158 series

Frequency converters in the **REOVIB MFS 158 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 mains input frequency. In addition, various sensor and valve logic links can be programmed.

Devices in the **REOVIB MFS 158 series** are available with a max. output current of 4A, as IP20 versions for installation in control cabinets, and as IP54 standalone versions.

The IP54 housings are available with various connection options:

- Input cable/output socket
- Complete cable connection solution for mains, output and control connections



REOVIB MFS 158 IP20

Technical data

	MFS 158
Mains input	110 / 230V Auto Detect
Mains frequency	50 / 60 Hz +/- 3 Hz
Output voltage	20...100 V / 40...210 V
Output current	max. 4 A
Vibration frequency	35...140 Hz
Setpoint value	Display, Potentiometer, 0...10V, 0...20 mA
Status signal	24 V DC
Ext. Enable	24 V DC, Switch
Sensor supply	24 V DC
Setting Umin / Umax	Display
Soft start	Adjustable 0...5 Sec.
With fill level/overflow control	PNP, 24 V DC
Mains voltage compensation	X
Standards Conformity	CE, RoHS
Protection class	IP20 / IP54
Our experts suggest the following AC-Magnets:	WI 111, WI 121, WI 321, WI 421, WI 621, WI 211, WE 131

REOVIB MFS 168

Frequency Controllers



RoHS
COMPLIANT
2011/EG

Patented
system

Advantages

- Frequency-control devices for controlling a vibratory conveyor independently of mains input frequency
- Automatic detection of the resonant frequency of the vibratory conveyor system (with additional vibration amplitude sensor) and option to regulate the vibration amplitude – Constant feed rates can be achieved independently of load or changes in the mechanical system
- Conveyor frequencies adjustable between 35...140 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 mains autom. Detectionion
- User settings can be stored
- With fill level/overflow control
- Versions available in various protection classes and with various connection options



REOVIB MFS 168 IP54

REOVIB MFS 168 series

Frequency controllers in the **REOVIB MFS 168** range for vibratory conveyor technology offer the option of operating the vibratory conveyor at an optimal vibration frequency for the material - independently of the mains input frequency.

It is also possible, thanks to the system patented by REO, to determine the resonant frequency of the vibratory system automatically and to regulate the vibration amplitude accordingly.

In addition, various sensor and valve logic links can be programmed.

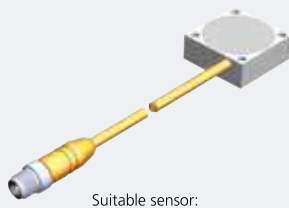
Devices in the **REOVIB MFS 168 series** are available with a max. output current of 3A, 6A and 8A and as IP20 versions for installation in control cabinets or as IP54 standalone units.

The IP54 housings are available with various connection options:

- Input cable/output socket
- Complete cable connection solution for mains, output and control connections



REOVIB MFS 168 IP20



Suitable sensor:
REOVIB SW as an IP54 design

Technical data

	MFS 168
Mains input	110 / 230V Auto Detect
Mains frequency	50 / 60 Hz +/- 3 Hz
Output voltage	0...100 V / 0...205 V
Output current	max. 3 A / 6 A / 8 A
Vibration frequency	30...140 Hz
Setpoint value	Display, Potentiometer, 0...10V, 0...20 mA
Status signal	Changeover relay 250 V, 1A
Ext. Enable	24 V DC, Switch
Sensor supply	24 V DC
Setting Umin / Umax	Display
Soft start	Adjustable 0...5 Sec.
Fill level/overflow control	PNP, 24 V DC (Option)
Coarse/fine control	X (Option)
Vibration amplitude regulation	X (Option)
Resonant frequency search	X (Option)
Mains voltage compensation	X
Standards Conformity	CE, RoHS
Protection class	IP20 / IP54
Our experts suggest the following AC-Magnets:	WI 111, WI 121, WI 321, WI 421, WI 621, WI 211, WE 131

REOVIB Frequency Controllers MFS 168

REOVIB MFS 268

Frequency Controllers



Advantages

- 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 feedrate irrespective of load or changes in the mechanical system
- Can be supplied with field bus interfaces: ProfiBus, CAN-Bus, DeviceNet, EtherCAT, ProfiNet.
- 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.



REOVIB MFS 268 LCD IP 54

REOVIB MFS 268 series

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, as IP20 versions for installation in switch cabinets, and also as IP54 case designs.

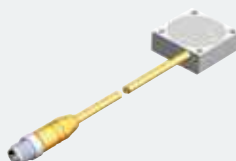
The IP54 housing can be supplied with various connection options:

- Input cable/output cable
- Input cable/output socket
- Complete cable connection solution for mains, output and control connections

REOVIB MFS 268-LCD are fitted with an LCD display. The full-text display in various languages makes programming and adjustment easy and intuitive. Important status indications and settings can easily be input and retrieved.



REOVIB MFS 268 IP54 with heat sink, 6A)



Suitable sensor: REOVIB SW as IP54 design



REOVIB MFS 268 IP20 CAN bus slave interface



REOVIB MFS 268 IP20 DeviceNet slave interface



REOVIB MFS 268 IP20 EtherCAT slave interface



REOVIB MFS 268 IP20 RS 232 interface



Optional UL-certified



Typical applications

- Conveyor & assembly automation
- Conveyor technology
- Sieving technology
- Filling and packaging technology



REOVIB MFS 268 IP20 with Profibus DP field bus interface

Technical data

	MFS 268	MFS 268-LCD
Mains input	110 / 230V	110 / 230V Auto Detect
Mains frequency	50 / 60 Hz +/- 3 Hz	50 / 60 Hz +/- 3 Hz
Output voltage	0...100 V / 0...205 V	0...100 V / 0...205 V
Output current	max. 3 A / 6 A / 8 A	max. 3 A / 6 A / 8 A
Vibration frequency	5...150 Hz (Optional 300 Hz)	5...150 Hz (Optional 300 Hz)
Setpoint value	Display, Potentiometer, 0...10V, 0...20 mA	Display, Potentiometer, 0...10V, 0...20 mA
Status signal	Changeover relay 250 V, 1A	Changeover relay 250 V, 1A
Ext. Enable	24 V DC, Switch	24 V DC, Switch
Valve output	24 V, 150 mA (Option)	24 V, 150 mA (Option)
Sensor supply	24 V DC	24 V DC
Setting Umin / Umax	LED-Display	LCD-Display
Soft start	Adjustable 0...5 sec.	Adjustable 0...5 sec.
Fill level/overflow control	PNP, 24 V DC	PNP, 24 V DC
Coarse/fine control	x	x
Vibration amplitude regulation	x	x
Resonant frequency search	x	x
Selectable timer function	x	x
Sensor time out monitor	x	x
Mains voltage compensation	x	x
Field bus interfaces	RS232, Profibus-DP, CAN-Bus, DeviceNet, EtherCAT (Option)	RS232, Profibus-DP, CAN-Bus, DeviceNet, EtherCAT (Option)
Standard Conformity	UL (Option), CE, RoHS	UL (Option), CE, RoHS
Protection class	IP20 / IP54	IP54
Our experts suggest the following AC-Magnets:	WI 111, WI 121, WI 321, WI 421, WI 621, WI 211, WE 131	

REOVIB Frequency Controllers MFS 268

REOVIB MFS 268 HP

Frequency Controllers



RoHS
COMPLIANT
2011/EG

Advantages

- Independent of the mains input frequency
- Able to automatically determine the resonant frequency of the vibratory conveyor system (with additional vibration amplitude sensor) and regulate the vibration amplitude and maintain a constant feedrate irrespective of load or changes in the mechanical system
- Field bus interfaces: ProfiBus, CAN-Bus, DeviceNet, EtherCAT, ProfiNet. (Optional)
- Available with UL/CSA approval (Optional)
- 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 230 V or 400 V mains input
- User settings can be stored
- Fill level/overflow control
- Versions available in various protection classes and connector options
- MFS 269 HP is available with AC output signal for use with permanent-magnet armature.



REOVIB MFS 268 HP IP20
(Version 230 V-
12/16 A)

REOVIB MFS 268 HP series

REOVIB MFS 268 HP

High-power version of the REOVIB MFS 268 frequency-control device, can be used for mains voltages of 400 V with max.

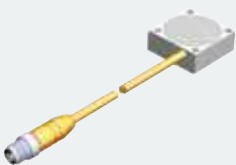
8 or 16A output current and for mains voltages of 230 V with max.

12, 16, 32A output current.

Available as IP20 versions for installation in control cabinets and also as IP54 standalone units for 230 V and 12/16A.

We are also delighted to offer you a suitable control cabinet system with client specific requirements.

Special designs of the REOVIB MFS 268 HP can also be implemented if required.



Suitable sensor:
REOVIB SW as IP54 design



REOVIB MFS 268 HP IP 20
(230 V - 32 A or 400 V - 16 A design)



REOVIB MFS 268 HP
(special design)



REOVIB MFS 268 HP
(As a complete control cabinet system)



*Optional UL-zertifiziert



Typical applications

- Conveyor & assembly automation
- Conveyor technology
- Sieving technology
- Filling & packaging technology



REOVIB MFS 268 HP IP54
(230 V - 12/16 A design)

Technical data

	MFS 268 HP		
Mains input	115/230 V Auto Detect	115/230 V Auto Detect	230/400 V Auto Detect
Mains frequency	50 / 60 Hz +/- 3 Hz	50 / 60 Hz +/- 3 Hz	50 / 60 Hz +/- 3 Hz
Output voltage	0...100/0...205 V	0...100/0...205 V	0...205/0...360 V
Output current	max 12/16 A	max. 32 A	max. 8/16 A
Vibration frequency	5...150 Hz	5...150 Hz (Optional 300 Hz)	5...150 Hz (Optional 300 Hz)
Setpoint value	Display, Potentiometer , 0...10V, 0...20 mA	Display, Potentiometer , 0...10V, 0...20 mA	Display, Potentiometer , 0...10V, 0...20 mA
Status signal	250 V changeover relay, 1A	250 V changeover relay, 1A	250 V changeover relay, 1A
Ext. Enable	24 V DC, Switch	24 V DC, Switch	24 V DC, Switch
Valve output	24 V, 150 mA (IP 54)	-	-
Sensor supply	24 V DC	24 V DC	24 V DC
Setting Umin / Umax	Display	Display	Display
Soft starting	Adjustable 0...5 Sek.	Adjustable 0...5 Sek.	Adjustable 0...5 Sek.
Material flow control	PNP, 24 V DC	PNP, 24 V DC	PNP, 24 V DC
Coarse/fine control	X	X	X
Vibration amplitude regulation	X	X	X
Resonant frequency search	X	X	X
Selectable timer function	x	x	x
Sensor time out monitor	x	x	x
Mains voltage compensation	X	X	X
Field bus interfaces	RS232, Profibus-DP, CAN-Bus, DeviceNet, EtherCAT (Option)	RS232, Profibus-DP, CAN-Bus, DeviceNet, EtherCAT (Option)	RS232, Profibus-DP, CAN-Bus, DeviceNet, EtherCAT (Option)
Standards conformity	CE, RoHS, UL/CSA (Option)	CE, RoHS	CE, RoHS
Protection class	IP20/IP54	IP20	IP20
Our experts suggest the following AC-Magnets:	WI 111, WI 121, WI 321, WI 421, WI 621, WI 211, WE 131		

REOVIB Frequency Controllers MFS 268 HP