

Static Adjustable Frequency Converter Series NFI/NFU Static Adjustable Frequency Control Series SRF

Applications

The frequency control of the series SRF and the frequency converters of the series NFI and NFU are used for speed regulation of electric vibrators.

Special applications require frequencies which cannot be achieved with normal multipole vibrators at line frequency. These frequency converters are characterized by their robust and straight-forward design.

Design and Functioning Principle

Low-loss power electronics permit the operation at input voltages with high tolerances. The frequency converters generate three-phase voltages with variable frequencies of 0 Hz to 500 Hz., thus making it possible to easily adjust the speed. The permissible temperature range is 0°C to +40°C.

All required parameters such as starting and stopping time, run-up ramp, maximum motor and pulse frequency, slip compensation and U/F characteristic are predefined by **NetterVibration**.

Optionally a brake resistor can be used for time-critical applications or large vibrators which permits a rapid braking / deceleration within a few revolutions after switching off the supply voltage in order to avoid unwanted resonance vibrations.

Type*	Supply Voltage	Max. Motor Power Input [kW]	Motor Current [A]	Dimensions (W x H x D) [mm]
SRF 1-007/4,8	1 ~ 200 ... 240 V 50/60 Hz	0,75	4,8	300 x 400 x 200
SRF 1-011/6,9		1,10	6,9	300 x 400 x 200
SRF 1-022/11		2,20	11,0	400 x 500 x 250
SRF 2-007/2,3		0,75	2,3	400 x 500 x 250
SRF 2-015/4,1		1,50	4,1	
SRF 2-022/5,5		2,20	5,5	
SRF 2-040/9,5		4,00	9,5	
SRF 2-055/14,3		5,50	14,3	
SRF 2-075/17		7,50	17,0	
SRF 2-110/27,7		11,00	27,7	
SRF 2-150/33		15,00	33,0	

* Technical data apply also to NFI

Type	Supply Voltage	Max. Motor-Power Input [kW]	Motor-Current [A]	Dimensions (W x H x D) [mm]
NFU 1-004/3,3	1 ~ 200 ... 240 V 50/60 Hz	0,4	3,3	210 x 240 x 163
NFU 1-007/4,8		0,75	4,8	215 x 297 x 192
NFU 1-011/6,9		1,1	6,9	
NFU 1-015/8		1,5	8,0	
NFU 1-022/11		2,2	11,0	
NFU 2-004/1,5		0,4	1,5	400 x 500 x 250
NFU 2-007/2,3		0,75	2,3	
NFU 2-011/3		1,1	3,0	
NFU 2-015/4,1		1,5	4,1	
NFU 2-022/5,5		2,2	5,5	
NFU 2-040/9,5		4,0	9,5	



SRF frequency controls are mounted in a switch cabinet with protection type IP 54.



NFI frequency converters are mounted in an IP 2x housing for installation in a customer existing switch cabinet. The performance data correspond to those of the series SRF.



NFU frequency converters with motor output in the IP 54 housing for wall-mounting are equipped with an on-off switch, direction switch and set point potentiometer.

Netter Braking Devices Series BZ



Type	Supply Voltage	Max. Nominal Power [kW]	Dimensions (W x H x D) [mm]
BZ 30	1 ~ 230 V /	5 / 5,5	55 x 68 x 110
BZ 70	3 ~ 400 V	10 / 11	158 x 185 x 110
BZ 200	50/60 Hz	26 / 28	145 x 270 x 180

The max. nominal power serves only as a guide for selection.
Please consult us, we will help you with your layout!

Applications

Series BZ braking devices are used to bring the running NEG to a standstill as quickly as possible.

It is often necessary to be able to switch off vibrating tables and conveyors without them running on, in order to avoid the symptoms of resonance.

A special feature of these devices is a very high braking efficiency with compact unit size.

Design and functioning principle

Upon activation of the brake the load-resistant power electronics changes the direction of the electric rotational field, thus bringing the NEG to an immediate standstill. The momentarily high braking currents are easily tolerated by the NEG. The permissible temperature range lies between 0°C and +40°C.

These braking devices are only suitable for constant mains frequencies of 50 Hz or 60 Hz. Operation together with a frequency converter is not permitted.