NetterVibration

Operating instructions for frequency controls of the SRF series

May 2025
No. 2243E

These operating instructions apply to: ***Netter****Vibrotron*® SRF
Static, adjustable frequency controls

Serving industry with vibration

Netter GmbH
Fritz-Lenges-Str. 3
55252 Mainz-Kastel

Contents

Scope of delivery

Please refer to the delivery note for the scope of delivery.

Check the packaging for possible transport damage. In the event of damage to the packaging, check the contents for completeness and possible damage. Inform the carrier in the case of damage.

Designation

The frequency controls of the SRF series are hereafter referred to as "SRF".

Version of document

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1 General information

Use and storage

Before installing the SRF read these instructions carefully. It is the basis for any action when dealing with the SRF, and may be used for training purposes. The instructions should be subsequently stored at the operation site.

Target group

The target group for these instructions is technical staff, who have basic knowledge of electrics and mechanics.

Only complying technical staff may work on the SRF.

The SRF may only be installed, put into operation, maintained, troubleshot and disassembled by persons authorised by the operator.

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Limitation of liability

All technical information, data and instructions for installation, operation and maintenance in these instructions are based on the latest information available at the time of printing and take our past experience to the best of our knowledge into account.

No claims can be derived from the information, illustrations and descriptions in these operating instructions.

The manufacturer does not assume liability for damages resulting from:

- failure to observe the instructions,
- improper use,
- unauthorised repairs,
- technical modifications,
- use of non-permissible spare parts.

Translations are made to the best of our knowledge.

Netter*Vibration* does not assume liability for translation errors, even if the translation was made by us or on our behalf. Only the original German text remains binding.

Directives/ standards observed

The frequency controls of the SRF series comply with the following directives and regulations:

- Electromagnetic Compatibility Directive 2014/30/EU
- Electromagnetic Compatibility Regulations 2016 (UK)
- Low Voltage Directive 2014/35/EU
- Electrical Equipment (Safety) Regulations 2016 (UK)

In particular, the standards DIN EN 60204-1 and EN 60529 have been observed.

The rules and regulations of the local associations for electrical engineering apply (e.g. IEC, VDE, OEVE, SEV, etc.).

Instruction and warning symbols

The following instruction and warning symbols are used in these instructions:

Personal injuries

⚠ DANGER	
	indicates an immediate danger. Disregard of this notice will result in death or severe personal injuries.

⚠ WARNING	
	indicates a potential danger. Disregard of this notice can result in death or severe personal injuries.

⚠ CAUTION	
	indicates a potentially dangerous situation. Disregard of this notice can result in minor or moderate personal injuries.

Material damages

NOTICE
indicates potential material damage. Disregard of this notice can result in material damage.

Notes

IMPORTANT
indicates actions, methods or notes that are not relative to safety, e.g. useful information and tips.

	**Environmentally safe disposal** indicates the obligation of environmentally safe disposal.

2 Safety

Intended use

The SRF units are suitable for operating electric external vibrators from ***Netter****Vibration*. They must only be used with these types of vibrators.

Any other use is considered improper.

Qualification of qualified personnel

Installation, commissioning, maintenance and troubleshooting of the SRF may only be performed by authorised qualified personnel, who have basic knowledge of electrics and mechanics.

All handling of the SRF is the responsibility of the operator.

Warning sticker

There are warning stickers inside the SRF.

Warning sticker on electrical parts which are live, even when the main switch is switched off:

	**DANGER** **Danger to life due to electrical voltage!**

High voltage

⚠ DANGER

Risk of electric shock due to high voltage

Live parts can cause severe injuries or even death.

- The electrical installation may only be carried out by authorized qualified personnel.
- The cabinet doors must not be opened when energised.
- All work on the system may only be carried out in a volt-free state.
- Observe the permissible protection class and protective grounding. The SRF may only be operated with the correct connection of the protective conductor.
- Perform all work only with insulated tools suitable for the application.

Safety rules

⚠ DANGER

Electric shock

An electric shock will result in serious injury or even death. The SRF must be free of voltage during assembly, start-up, maintenance and troubleshooting.

Observe the following five safety rules:

1. Disconnect the SRF from the mains supply.
2. Secure the SRF against re-activation.
3. Establish that the SRF has no voltage.
4. Earth and short-circuit the power supply of the SRF.
5. Cover adjacent live parts or fence them off.

Heavy parts

⚠ WARNING

Risk of injury while handling heavy parts

Risk of serious injury due to weight during transport and installation of the SRF.

- ➢ Only qualified personnel may transport and install the SRF.
- ➢ Use suitable load handling devices and slinging equipment.
- ➢ Wear suitable personal protective equipment.

Note for operator

IMPORTANT

The operator has to watch over the condition of the system very carefully. Compliance with the protective measures is a requirement. If damage or faults are present on the system, they must be correctly and immediately rectified.

Note for operating staff

IMPORTANT

The operating staff may only operate the facility, i.e. the operating staff have no authority to open the switch cabinet and to work on the system parts. In case of technical problems, the maintenance staff should be consulted.

Unauthorised modification

IMPORTANT

Improper operation or changes in the electrical or mechanical presetting of the components can lead to consequential damage which is not only very expensive but also leads to long machine downtimes. The consequences are to be borne by the polluter. The warranty expires.

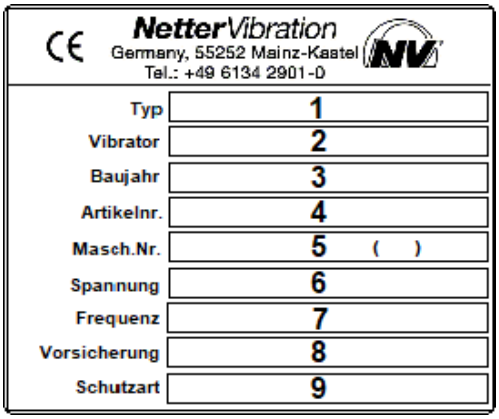
3 Technical data

Permissible operating controls

Controls of the SRF 1 series	
Series	SRF 1-007/4,8, SRF 1-011/6,9, SRF 1-022/11
Supply	1~ 200 to 240 V ±5 %
Mains frequency	50 to 60 Hz ±2 %
Preliminary fuse	10 A (SRF 1-007/4,8 and SRF 1-011/6,9), 16 A (SRF 1-022/11)
Output voltage	Max. 3~ V (according to supply voltage)
Output frequency	0 ... up to the maximum frequency (depending on the vibrator type)
Continuous nominal current	4.80 A (SRF 1-007/4,8) 6.90 A (SRF 1-011/6,9) 11.00 A (SRF 1-022/11)
Motor nominal power	0.75 kW (SRF 1-007/4,8) 1.10 kW (SRF 1-011/6,9) 2.20 kW (SRF 1-022/11)
Ambient temperature	0 to +40 °C during operation
Humidity	The relative humidity should not exceed 80 %
Duty cycle	Approx. 10 % (depending on the configuration of the system)
Safety	Earthing and short-circuit proof
Type of protection	IP 54
Dimensions (W x H x D)	300 x 400 x 200 mm (SRF 1-007/4,8 and SRF 1-011/6,9) 400 x 500 x 250 mm (SRF 1-022/11)

Controls of the SRF 2 series	
Series	SRF 2-007/2,3, SRF 2-015/4,1, SRF 2-022/5,5, SRF 2-040/9,5, SRF 2-055/14,3, SRF 2-075/17, SRF 2-110/27,7, SRF 2-150/33
Supply	3~ 380 to 500 V ±5 % 3 phases, N + PE
Main frequency	50 to 60 Hz ±2 %
Preliminary fuse	16 A (SRF 2-007/2,3 to SRF 2-040/9,5) 32 A (SRF 2-055/14,3 to SRF 2-150/33)
Output voltage	Max. 3~ V (according to supply voltage)
Output frequency	0 ... up to the maximum frequency (depending on the vibrator type)
Continuous nominal current	2.30 A (SRF 2-007/2,3) 4.10 A (SRF 2-015/4,1) 5.50 A (SRF 2-022/5,5) 9.50 A (SRF 2-040/9,5) 14.70 A (SRF 2-055/14,3) 17.00 A (SRF 2-075/17) 27.70 A (SRF 2-110/27,7) 33.00 A (SRF 2-150/33)
Motor nominal power	0.75 kW (SRF 2-007/2,3) 1.50 kW (SRF 2-015/4,1) 2.20 kW (SRF 2-022/5,5) 4.00 kW (SRF 2-040/9,5) 5.50 kW (SRF 2-055/14,3) 7.50 kW (SRF 2-075/17) 11.00 kW (SRF 2-110/27,7) 15.00 kW (SRF 2-150/33)
Ambient temperature	0 to +40 °C during operation
Humidity	The relative humidity should not exceed 80 %
Duty cycle	Approx. 10 % (depending on the configuration of the system)
Safety	Earthing and short-circuit proof
Type of protection	IP 54
Dimensions (W x H x D)	400 x 500 x 250 mm (SRF 2-007/2,3 to SRF 2-040/9,5) 600 x 600 x 300 mm (SRF 2-055/14,3 to SRF 2-150/33)

Type plate



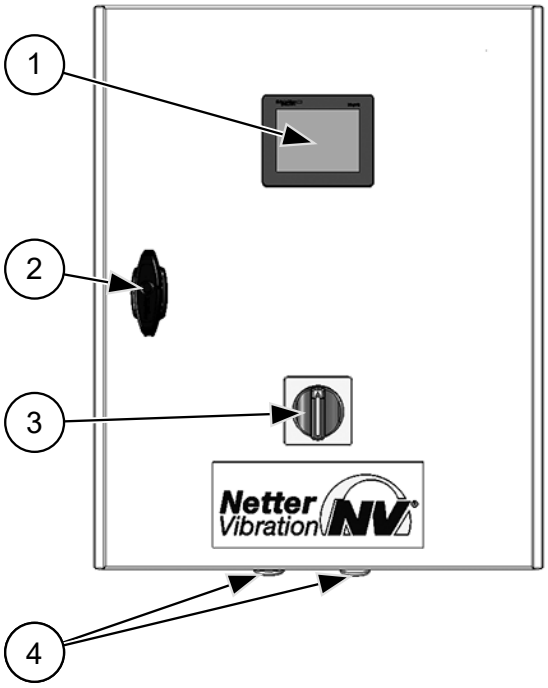
1 Type designation
2 Type of vibrator
3 Year of manufacture
4 Item number
5 Machine number
6 Voltage
7 Frequency
8 Preliminary fuse
9 Degree of protection

The values can be found on the type plate. The type plate is situated inside the housing of the SRF.

The mains voltage and the mains frequency must correspond to the nominal voltage stated on the type plate and the nominal frequency. ±5 % voltage deviation or ±2 % frequency deviation is allowed.

4 Design and function

Design



The SRF has the following control elements:

No.	Control element	Function
1	Touch panel	Setting and display of operating parameters.
2	Rotary handle	Open or close the control cabinet door.
3	Main switch	| switches the SRF on, O switches the SRF off.
4	Cable gland	For connecting external electric vibrators.

Function

The SRF units are used for controlling electric external vibrators of the NEG series.

Certain applications require operating frequencies that cannot be achieved with standard multi-pole electric external vibrators running at mains frequency.

High-efficiency power electronics enable operation with input voltage tolerances over a wide range.

The SRF units generate a stable three-phase output voltage with frequencies from 0.5 to 100 Hz, enabling rotational speeds from 30 to 6000 rpm for a two-pole NEG vibrator. This allows precise and straightforward speed adjustment.

The fully equipped SRF are designed for wall mounting.

5 Transport and storage

Observe the safety instructions in chap. Safety, starting on page 5.

Conditions of transport

When transporting the SRF, ensure that the SRF is not subjected to strong impacts or vibrations that could damage the SRF.

Please note the following instructions:

- The type plate is in the SRF.
- Lifting tools are of the usual kind such as a pulley or a crane. When moving loads, use suitable steel cables or hoisting slings which are sufficiently dimensioned for these weights.
- The switch cabinet must be handled with care during transport.

Packaging

The SRF are packed and ready for assembly. Accessories and add-on parts are delivered unmounted, unless otherwise agreed upon.

The packaging protects the SRF from transport damage. The packaging material has been selected from an environmentally safe and technically disposable point of view and is therefore recyclable.

The return of packaging to the material cycle conserves raw materials and reduces the amount of waste.

Storage

- Store the SRF in a dry and clean environment.
- The permissible storage temperature is between +5 °C and +40 °C.
- The permissible relative humidity is max. 60 %.
- The storage time is max. 2 years.
- Do not store the system outdoors. The electrical components are not protected against corrosion.

6 Installation

Observe the safety instructions in chap. Safety, starting on page 5.

Regulations

Installation work as well as operation of the system are to be carried out taking the valid accident prevention regulations into account.

The operator is responsible for the proper condition of the system.

Procedure

When installing the SRF, carry out the following steps in succession:

1. Fasten the SRF at its operation site.
2. Install the supply lines carefully. Protect the cables from high temperatures, lubricants, and sharp edges to prevent abrasion.
3. Connect the supply lines corresponding to the electric circuit diagram.

Accessory parts

Accessories that ensure proper operation and safety must have the appropriate degree of protection for the specific application.

7 Start-up and operation

Observe the safety instructions in chap. Safety, starting on page 5.

Permissible operating conditions

Please refer to chap. Technical data, page 7 for permissible operating conditions.

Regulations

Installation work as well as operation of the system are to be carried out taking the valid accident prevention regulations into account.

The operator is responsible for the proper condition of the system.

Measures

Carry out the following measures before start-up:

1. Check the mains voltage and the feed-in.
2. Check that the system is in perfect electrical condition.
3. Check that all protective measures on the system have been observed.
4. Check the earthing.
5. Check that the cables are undamaged and laid according to the known regulations and standards.
6. Release mechanical blocks (e.g. transport clamps, brakes, etc.).
7. Eliminate possible errors.

Switching on the system

The main switch must first be unlocked before switching on.

When the power supply is connected, the SRF is energized by turning on the main switch.

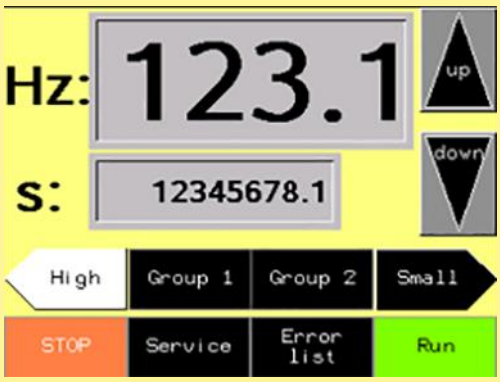
The boot process of the SRF is initiated. Once the boot process is complete, functions are executed (depending on the start parameters), and all system components may be energized. This is not critical for the machine, but all safety measures should be active (e.g., all covers are closed, etc.).

Startup screen

After the completion of the boot process (booting/loading), the startup screen is displayed.

Panel image Frequency/ Time

After the startup screen, the “Frequency/Time” panel image is displayed.



Optional display

Display	
Frequency:	[Hz]
Vibration time:	[s]
Function keys	**Description**
Up	Manual frequency adjustment
Down	Manual frequency adjustment
High (optional)	Change rotation direction, high torque
Group (optional)	Select Group 1 or Group 2
Small (optional)	Change rotation direction, low torque
Stop	Stop
Service	Customer password Netter password
Error list	Error panel is displayed
Run	Time is running

Changing the desired frequency

Tap the “Up” or “Down” buttons to set the desired frequency. The frequency value can also be set via the frequency (Hz) field.The frequency value can be adjusted either during or before the vibration process. The set frequency will be displayed in the frequency field.

Changing the desired vibration time

Tap the time field to set the desired vibration duration. If no time function is required, set the time to 0.

Starting the vibrators

Tap the “Start” button to initiate the vibrators.

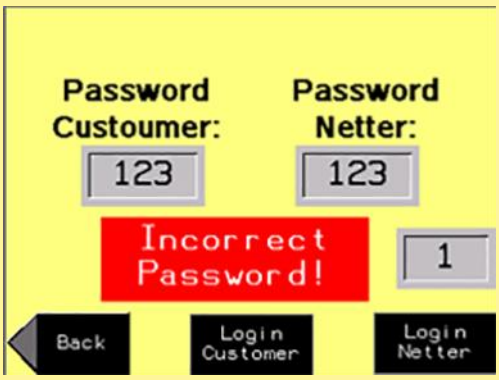
Stopping the vibrators

- Manually: Tap the “Stop” field
- Automatically: After the pre-set time has elapsed

Panel image Error

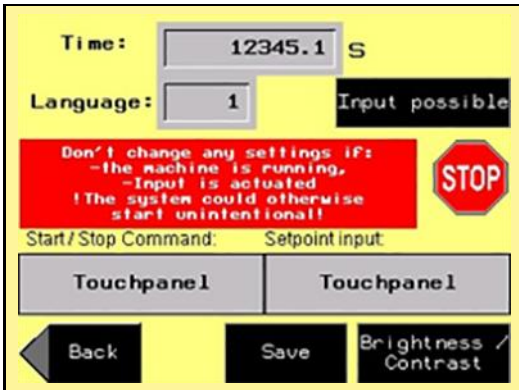
Display	
Error number	0 - 73
Error message	Error number and message
Function Keys	**Description**
Back	Display of the Frequency/Time panel image
Cancel Error	Error message will be cleared

Panel image Password



Display	
Password Customer	Enter customer password
Password Netter	Enter Netter password
Incorrect Password	Display in case of incorrect password
Function keys	**Description**
Back	Display of the Frequency/Time panel image
Login Customer	11880 Customer menu panel image is displayed
Login Netter	Service area ***Netter****Vibration*

Panel image Customer menu



Display	
Time:	Target time [s]
Language:	Language selection
Function keys	**Description**
Input possible	Frequency/Time panel image enabled or locked
Touchpanel	Select Start/Stop command
Touchpanel	Select setpoint input
Back	The password panel image is displayed
Save	Data is being saved to the frequency converter
Brightness/ Contrast	The brightness/contrast panel image is displayed

By tapping on the time field, the keyboard panel image will be displayed.

Important: Your selection must be saved to the frequency converter using the “Save Data” button.

Start/Stop commands:

To change the Start/Stop command, tap the “Touchpanel” button under the Start/Stop command line. The available control types are:

- Touch panel
- Start locked
- Start/Stop ELTAKO
- Start Dead man's switch
- Start = DI2 / Stop = DI1

The external control must be done via a potential-free contact.

Setpoint inputs:

To change the setpoint input, tap the “Touchpanel” button under the setpoint input line. The available setpoint inputs are:

- Touch panel
- Analogue Input AI1 “Potentiometer”
- Analogue Input AI2 “Voltage 0 - 10 V DC“
- Analogue Input AI3 “Current 4 - 20 mA”

Important: Changes may only be made if:
– The system is in “Stop” mode
– No input is assigned (FALSE)
Otherwise, the system may start unintentionally!

Description Start/Stop commands

If an external control is selected, the Start and Stop buttons on the touch panel are locked.

Touch panel

The Start/Stop command can only be issued via the touch panel.

Start lock

Input DI1 = FALSE (0)	The Start button on the touch panel cannot be pressed
Input DI1 = TRUE (1)	The Start button on the touch panel can be pressed

Start/Stop ELTAKO

Input DI1 = Impuls TRUE (1)	Starts the vibrators
Input DI1 = Impulse TRUE (1)	Stops the vibrators

To start or stop the vibration, simply send a pulse to the corresponding contact (DI1).

Start dead man's switch

Input DI1 = TRUE (1)	Starts the vibrators; vibrators run
Input DI1 = FALSE (0)	Stops the vibrators; vibrators stop

The vibration time function is not available in this control mode.

Start = DI2 / Stop = DI1

Input DI1 = Impulse FALSE (0)	Stops the vibrators
Input DI2 = Impulse TRUE (1)	Starts the vibrators

Description setpoint inputs

If an external setpoint input is selected, the frequency display on the touch panel shows the current actual frequency of the vibrators. If the vibrators are off, 0 Hz is displayed.

Touch panel

The frequency setpoint can only be set via the touch panel.

Analog input AI1 / “Potentiometer”

The setpoint is defined via input AI1 (setpoint potentiometer).

Analog input AI2 / “Voltage 0 - 10 V DC”

The setpoint is defined via input AI2 (0 - 10 V).

Analog Input AI3 / “Current 4 - 20 mA”

The setpoint is defined via input AI3 (4 - 20 mA).

Panel image Brightness/ Contrast

Display	
Brightness:	Arrow keys
Contrast:	Arrow keys
Function keys	**Description**
Arrow keys	Increase/decrease brightness or contrast
Back	The customer menu panel image is displayed

Panel image Keypad

Tapping on input fields displays the keypad panel image.

Display	
0	Input value (cursor)
Min 0 – Max. 0	Minimum and maximum values are displayed
Functions key	**Description**
Esc	Exit input field
Arrow key delete	Delete one digit to the left
Arrow key left	Digit jump back
Arrow key right	Digit jump forward
Clr	Clear input field
Enter	Confirm input

8 Maintenance and servicing

Observe the safety instructions in chap. Safety, starting on page 5.

Expertise and regulations

Maintenance and servicing of the vibrators may only be performed by regularly trained, authorised and qualified personnel. Work on the electrical system may only be carried out by a qualified electrician.

The qualified personnel has to work exclusively with tools suitable for the application.

In the case of unauthorised intervention in the SRF there is no longer any warranty claim.

Before all maintenance and servicing work the SRF must be safely disconnected from the electrical mains. The procedure is as follows:

1. Switch off SRF.
2. Secure against unintentional switching on.
3. Determine that SRF are voltage free.
4. Earth and short-circuit.
5. Cover and fence off neighbouring live parts.

Maintenance plan

Maintenance of the SRF must be carried out as follows:

Interval	Action
Monthly	Check cables.
Every 6 month	Check proper condition of connecting cables and plugs.
At least every 4 years	Check proper condition of electrical systems and stationary electrical equipment.

Implementation by Netter

Maintenance, repair and general overhaul of the SRF may alternatively be performed by ***Netter****Vibration*.

9 Troubleshooting

Observe the safety instructions in chap. Safety, starting on page 5.

Expertise and regulations

Electrical faults may only be processed by a qualified electrician. Work on the SRF may only be carried out by authorised persons.

In the case of unauthorised intervention in the SRF there is no longer any warranty claim. Interventions of any kind are to be agreed upon with ***Netter****Vibration*.

Trouble-shooting

There are two categories of malfunction causes:

Cause of malfunction	Remedy
Operator error	Carefully read the operating manual, and contact ***Netter****Vibration* if needed.
Electrical or mechanical faults	Check electrical wiring. Verify electrical and mechanical connections. Ensure compliance with the electrical circuit diagrams (see the enclosed circuit diagrams).
	In case of a malfunction of the frequency converter, refer to the list of error messages on the following page.
	In case of vibrator malfunctions, refer to the vibrator's operating instructions.
Blown fuse	Replace with a fuse of the same type and current rating.
Repeated tripping of the fuse	Check the circuit of this fuse according to the circuit diagram.

Error messages

Error number	Error code	Description
0	No error	No error
1	Reserved	Reserved
2	[EEF1]	Error EEPROM HMI
3	[CFF]	Configuration fault
4	[CFI]	Configuration fault via serial link
5	[SLF1]	Modbus fault
6	[ILF]	Internal fault
7	[CnF]	Communication fault
8	[EPF1]	External fault over LI
9	[OCF]	Overcurrent
10	[CrF1]	Capacitor load circuit
11	[SPF]	Speed feedback fault
12	[AnF]	Speed deviation
13	[LFF2]	AI2 loss of 4 - 20 mA
14	[PtF1]	PTC 1 fault
15	[OtF1]	PTC 1 overheated
16	[OHF]	Drive converter overheated
17	[OLF]	Motor overload
18	[ObF]	Overvoltage during deceleration
19	[OSF]	Overvoltage
20	[OPF1]	Loss of motor phase
21	[PHF]	Line phase failure
22	[USF]	Undervoltage
23	[SCF1]	Motor short-circuit
24	[SOF]	Overspeed
25	[tnF]	Motor measurement
26	[InF1]	Incorrect converter type
27	[InF2]	Incorrect power card
28	[InF3]	Serial connection
29	[InF4]	Manufacturing defect
30	[EEF2]	Error EEPROM HMI
31	[SCF2]	Impedance short circuit
32	[SCF3]	Ground fault
33	[OPF2]	Loss of motor phases
34	[COF]	CANopen error
35	[bLF]	Brake control
36	Reserved	Reserved

Error number	Error code	Description
37	[InF7]	Initialization error hardware
38	[EPF2]	External communication error
39	[APF]	Application error
40	[InF8]	Internal SPGS supply
41	[brF]	Brake feedback
42	[SLF2]	Powersuite communication error
43	[ECF]	Mechanical connection encoder
44	[SSF]	Current limit torque
45	[SLF3]	Hlm communication error
46	[PrF]	Error PWR
47	[PtF2]	Error PTC 2
48	[OtF2]	PTC 2 overheated
49	[PtFL]	LI6 = PTC sensor
50	[OtFL]	LI6 = PTC overheated
51	[InF9]	Internal current measurement
52	[InFA]	Short circuit in internal power supply
53	[InFb]	Internal PTC sensor
54	[tJF]	IGBT overheated
55	[SCF4]	IGBT short circuit
56	[SCF5]	Lad DC Bus short circuit
57	[SrF]	Torque timeout
58	[FCF1]	Motor protection
59	[FCF2]	Motor protection
60	[InFC]	Internal time measurement
61	[AI2F]	Input AI2
62	[EnF]	Encoder
63	[CrF2]	Thyr. soft charging
64	[LCF]	Main contactor
65	[bUF]	Short circuit in brake unit
66	Reserved	Reserved
67	[HdF]	IGBT desaturation
68	[InF6]	Internal option
69	[InFE]	Microprocessor error
70	[bOF]	Overload brake resistor
71	[LFF3]	AI3 loss 4 - 20 mA
72	[LFF4]	AI4 loss 4 - 20 mA
73	[HCF]	Card pairing

10 Spare parts and accessories

Ordering of spare parts

Please provide the following details when ordering spare parts:

- type of SRF
- description and position of spare part
- required amount

Spare part list

A list of the parts used can be found in the spare part list of the SRF.

Requirements for exchange

Spare parts for the vibration drives must be mounted by an authorised specialist. Spare parts especially made for the customer require separate training.

The spare parts for the SRF and for the electrical installation must be installed by an authorised electrician. This specialist must be familiar with the protective measures.

Defective parts must be replaced by parts of the same type.

If you need to replace components of the SRF that contain a programme, then contact ***Netter****Vibration*.

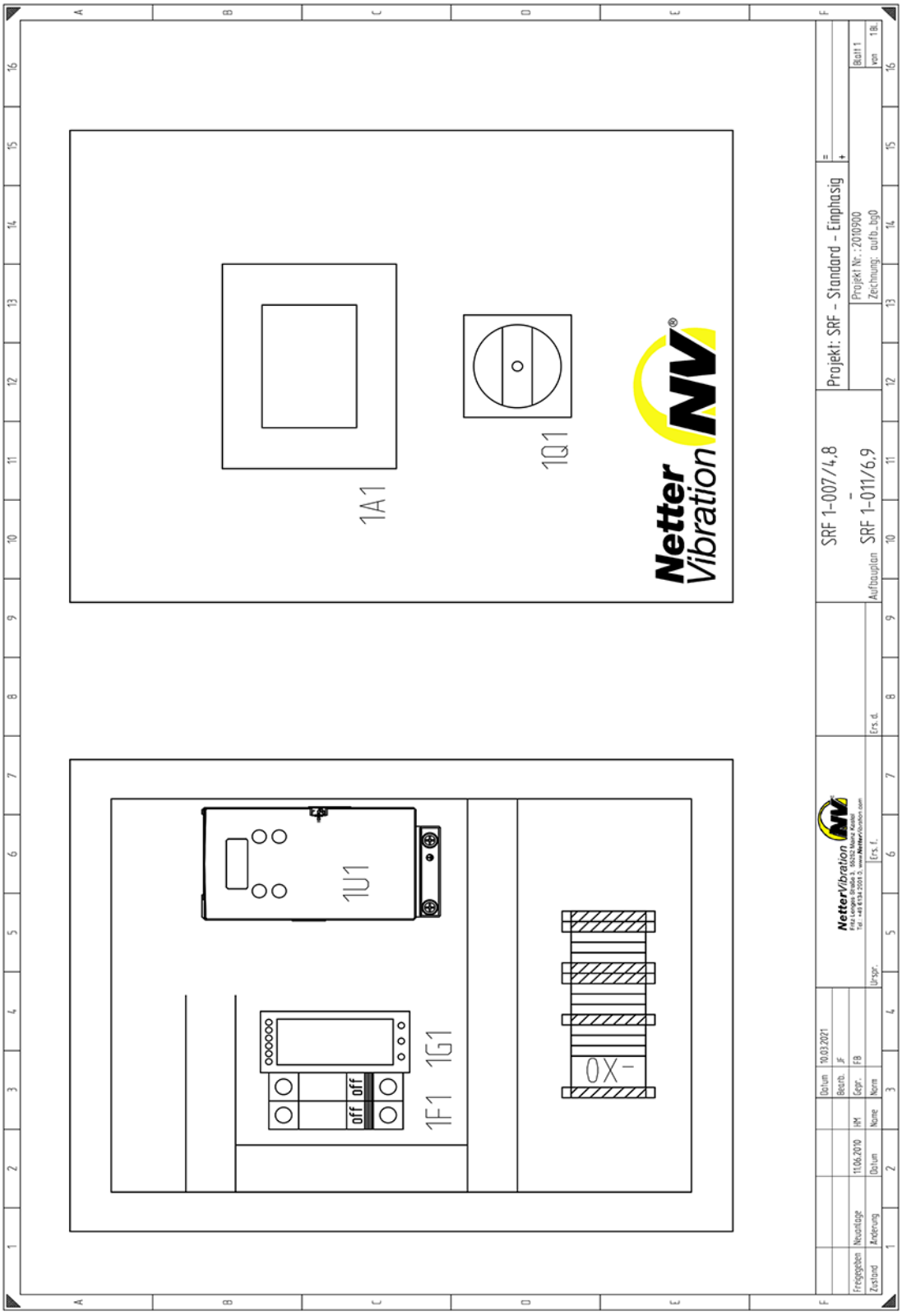
11 Disposal

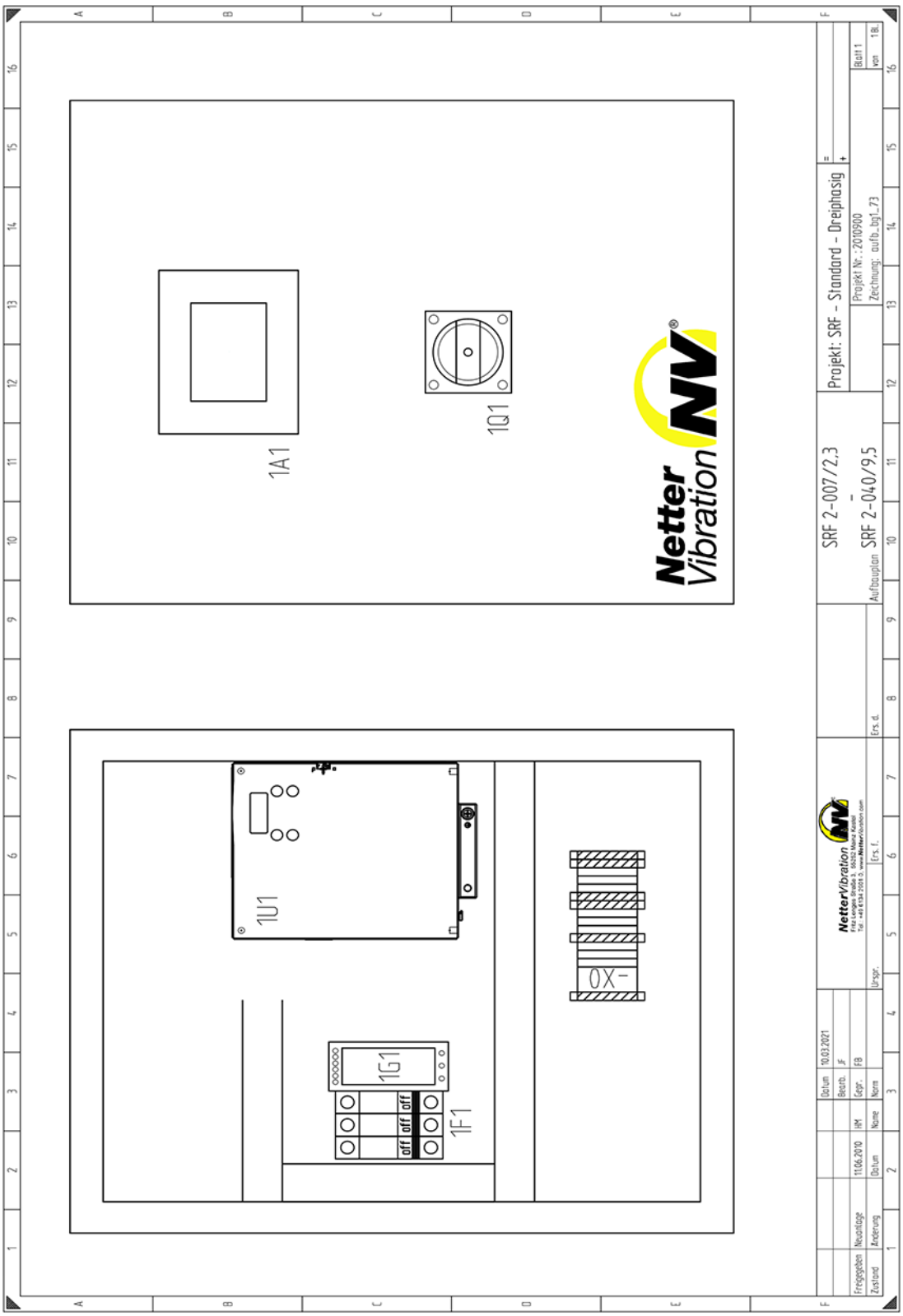
Disposal

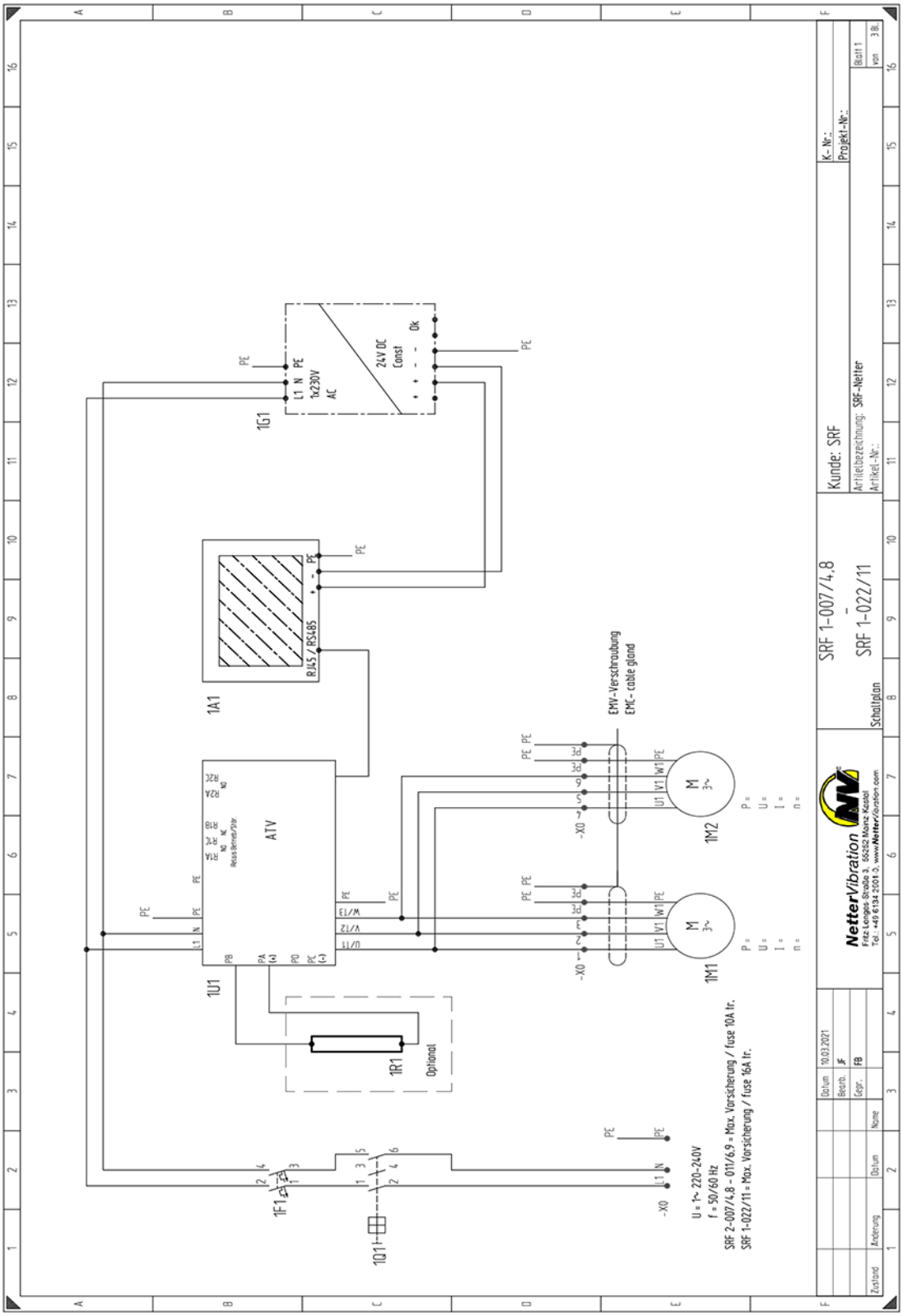
	All parts of the SRF must be disposed of properly according to the material specifications.
	Do not dispose the electrical and electronic components of the SRF in the normal household waste, but in a special collection point for the environmentally friendly disposal of electrical equipment. Observe the national regulations for disposal.

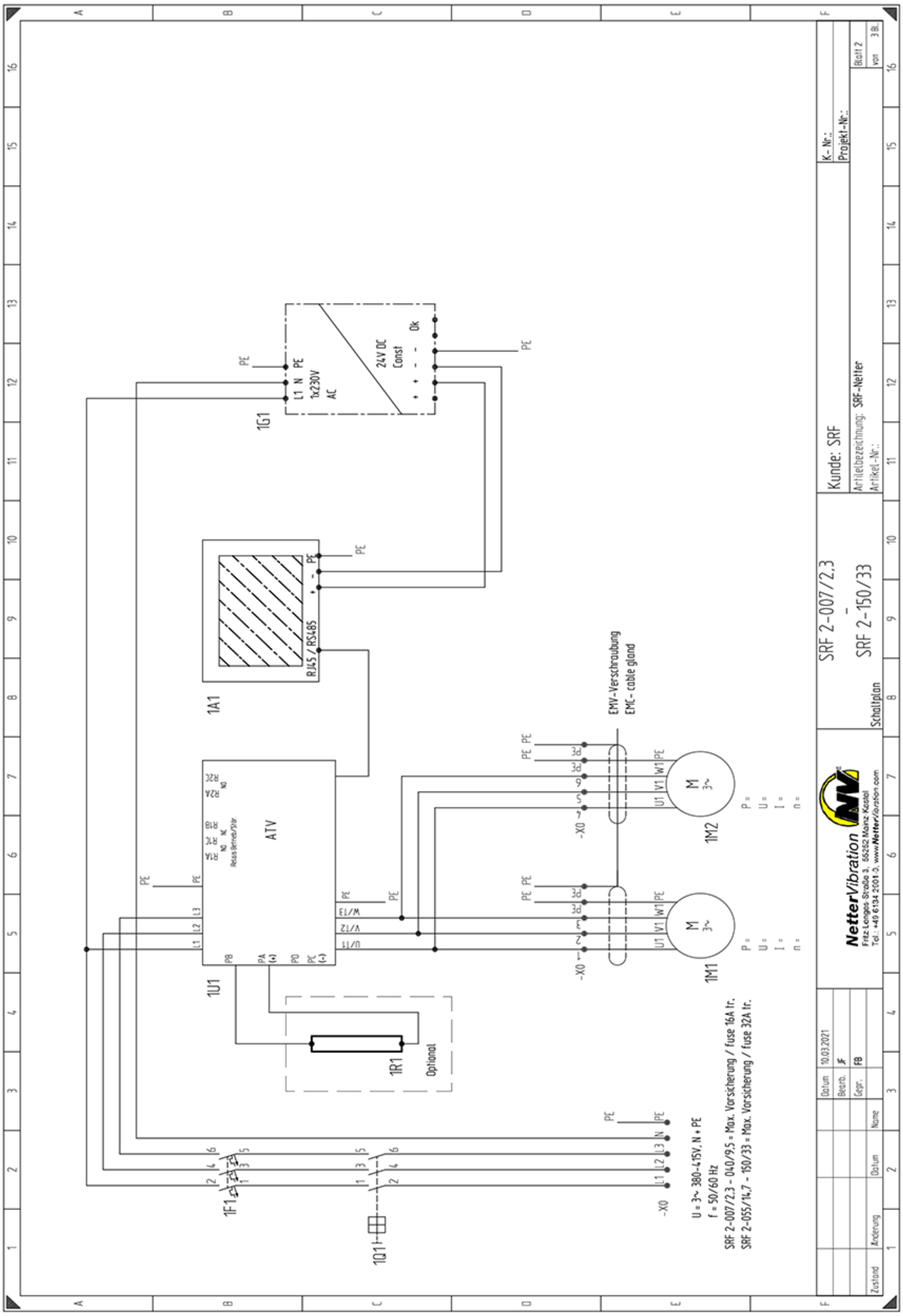
12 Annex

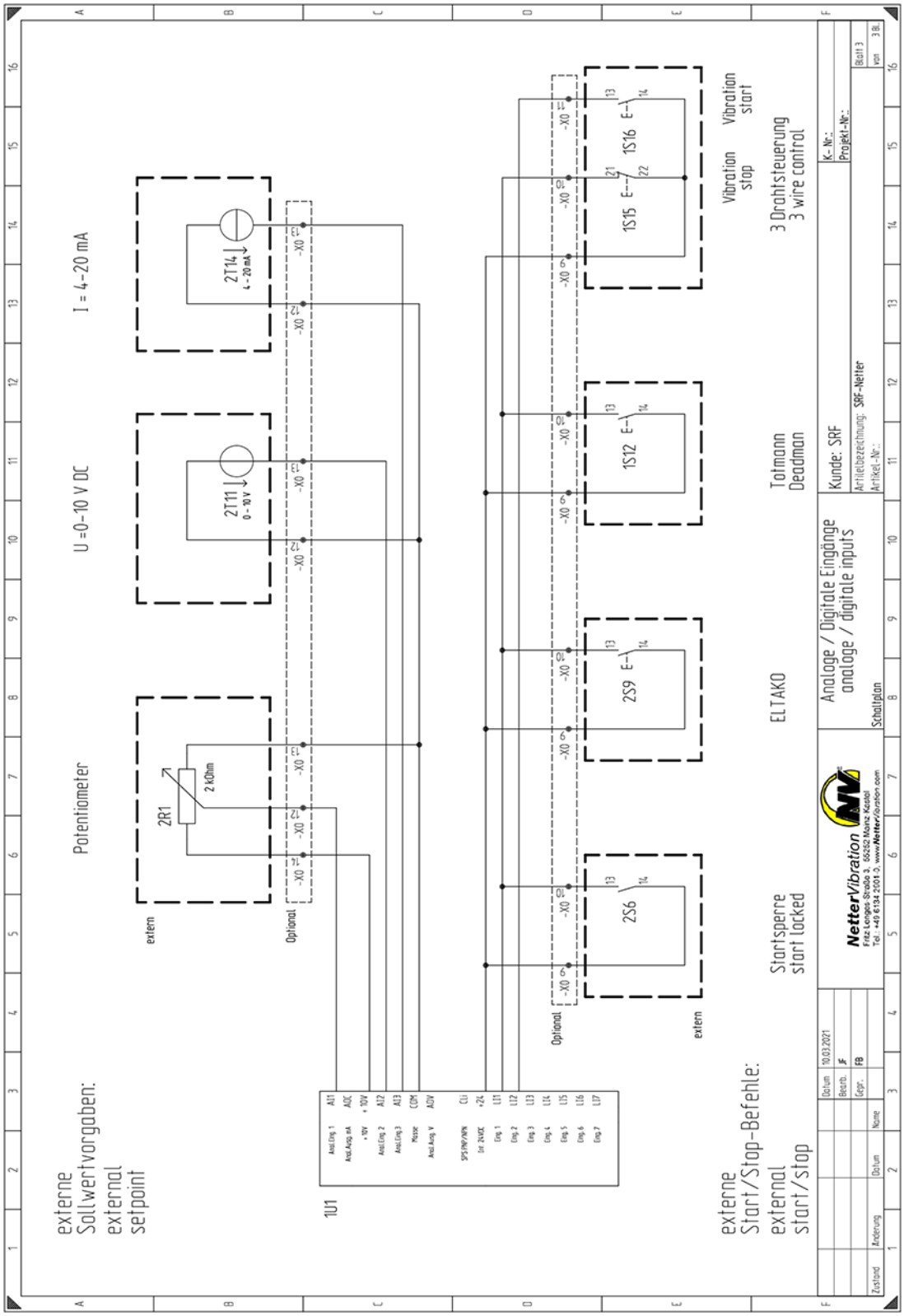
Circuit diagrams




1A1
1Q1
Netter Vibration
1U1
1G1
1F1
off off off
0X-
Projekt: SRF - Standard - Dreiphasig
SRF 2-007/2.3
-
SRF 2-040/9.5
Aufbauplan
Projekt Nr.: 2010900
Zeichnung: aufb_bg1_73
Blatt 1
von 1
NetterVibration
10.03.2021
11.06.2010


1G1
24V DC
Const
L1 N PE
1x230V
AC
1A1
RJ45 / RS485
1U1
ATV
1R1
Optional
EMV-Verschraubung
EMC- cable gland
1M1
1M2
-X0
1F1
1Q11
U = 1~ 220-240V
f = 50/60 Hz
SRF 2-007/4.8 = 011/6.9 = Max. Vorsicherung / fuse 10A fr.
SRF 1-022/11 = Max. Vorsicherung / fuse 16A fr.
SRF 1-007/4.8
-
SRF 1-022/11
Schaltplan
Kunde: SRF
Artikelbezeichnung: SRF-Netter
Artikel-Nr.:
K.-Nr.:
Projekt-Nr.:
NetterVibration
Fritz-Lenges-Straße 3, 66552 Mainz-Kastel
Tel.: +49 6134 2001-0, www.NetterVibration.com
Datum 10.03.2021
Bearb. JF
Gepr. FB
Norm
Datum
Änderung
Zustand


1G1
L1 N PE
1x230V
AC
24V DC
Const
Ok
1A1
RJ45 / RS485
1U1
ATV
1R1
Optional
EMV-Verschraubung
EMC- cable gland
1M1
1M2
1F1
1Q1
-X0
U = 3~ 380-415V, N + PE
f = 50/60 Hz
SRF 2-007/2,3 - 040/9,5 = Max. Vorsicherung / fuse 16A tr.
SRF 2-055/14,7 - 150/33 = Max. Vorsicherung / fuse 32A tr.
SRF 2-007/2,3
-
SRF 2-150/33
Kunde: SRF
Artikelbezeichnung: SRF-Netter
Schaltplan
Datum 10.03.2021
NetterVibration


externe
Sollwertvorgaben:
external
setpoint
Potentiometer
U =0-10 V DC
I = 4-20 mA
2R1
2 kOhm
2T11
0 - 10 V
2T14
4 - 20 mA
extern
Optional
1U1
externe
Start/Stop-Befehle:
external
start/stop
Startsperre
start locked
ELTAKO
Totmann
Deadman
3 Drahtsteuerung
3 wire control
Vibration
stop
Vibration
start
2S6
2S9
1S12
1S15
1S16
Analoge / Digitale Eingänge
analoge / digitale inputs
Kunde: SRF
Artikelbezeichnung: SRF-Netter
Schaltplan
NetterVibration
Fritz-Lenges-Straße 3, 66352 Mainz-Kastel
Tel.: +49 6134 2901-0, www.NetterVibration.com

Declaration of Conformity

The Declaration of Conformity can be found at: www.***Netter****Vibration*.com