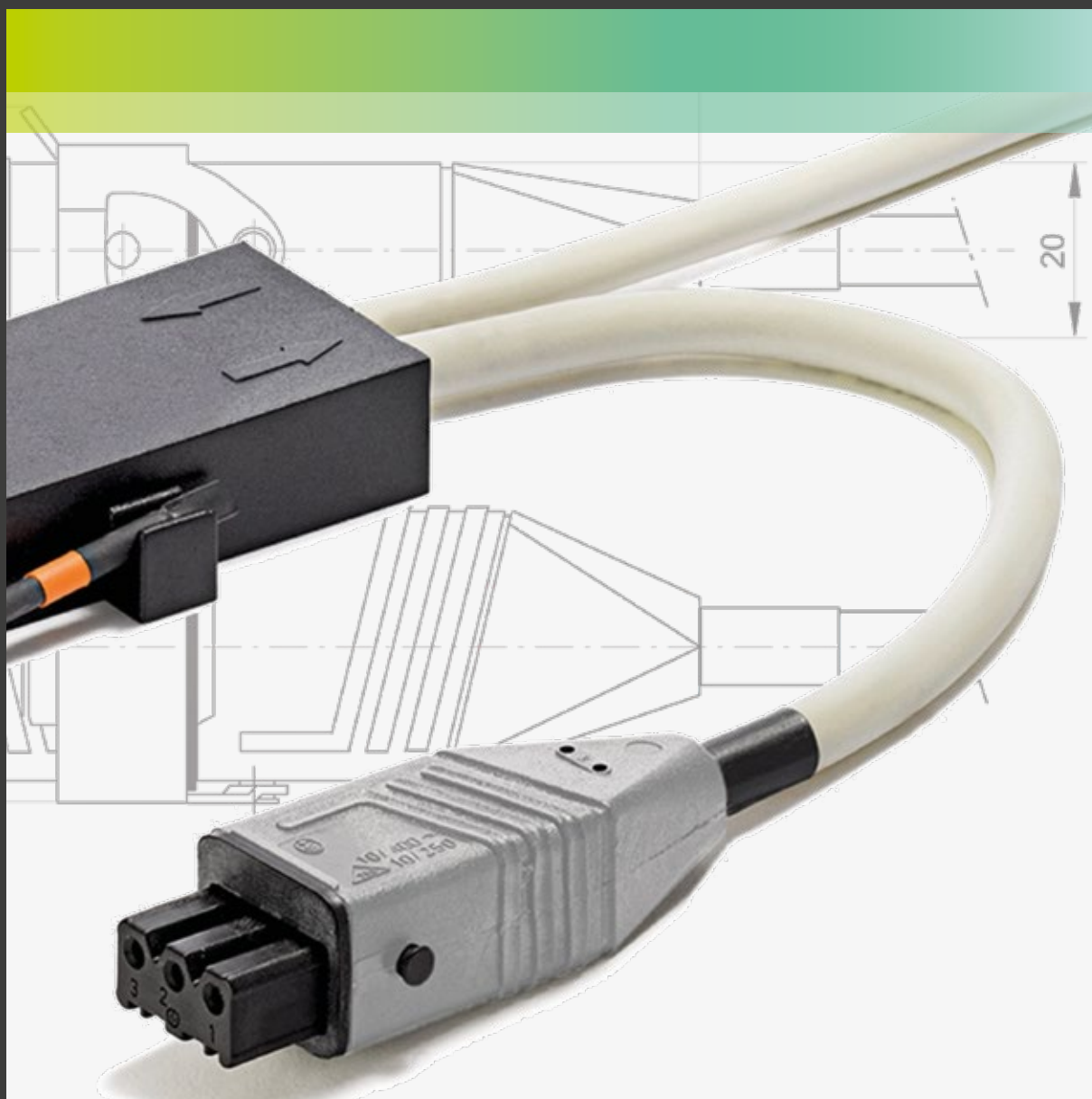


# Tech Guide

## Connection technique






# Connection technique

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 The information and values given refer to our products in their standard version according to the brochure and intended use/application.



# Connection diagrams

## Drive for external venetian blinds

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## STAS4-3E

### Technical data

<b>Power supply</b>	<b>Number of end switches</b>
230 V AC	3

**!** Installation and maintenance work may be performed by trained professionals only.  
 The electrical power must be cut off in order to work on the system.

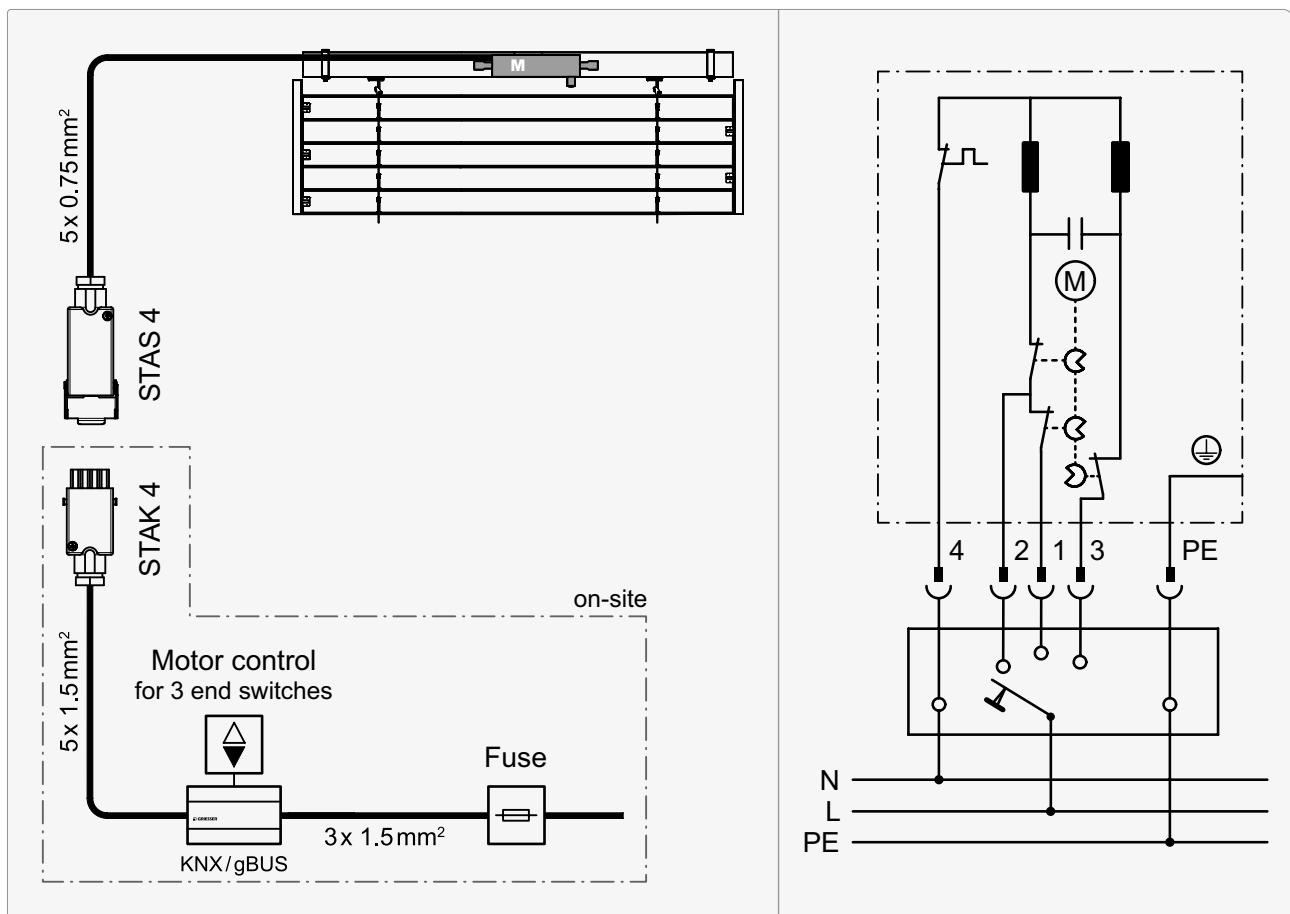
The operating commands must be locked mechanically or electrically and have a changeover time of min. 500 ms.

Motors must not be switched in parallel.

Local operation as per technical supplement for motor control unit.

**Caution! Incorrectly connecting the motor can cause damage!**

### Connection diagramm



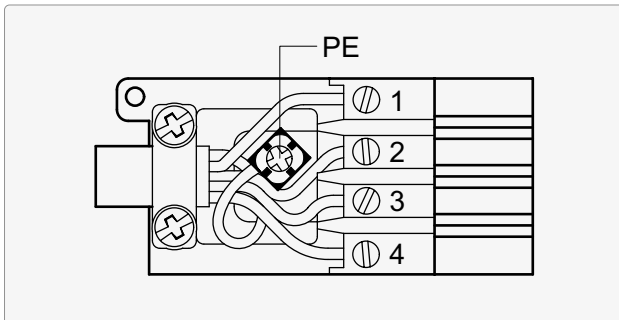
↓ STAS4-3E



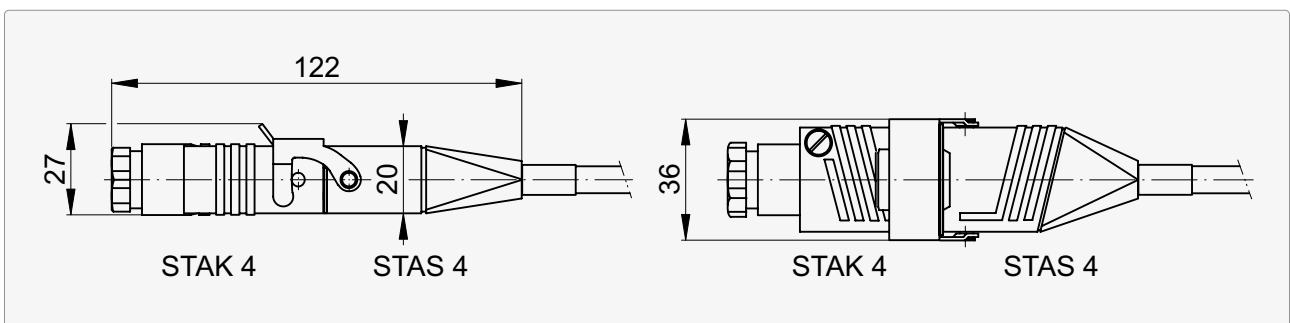


▶▶ STAS4-3E

Plug STAK 4



1	▼	Down 1	gray
2	▼	Down 2	black
3	△	Up	brown
4	N	Neutral connector	blue
PE	⊕	Protective connector	yellow/green





## STAS3-2E

### Technical data

<b>Power supply</b>	<b>Number of end switches</b>
230 V AC	2

**!** Installation and maintenance work may be performed by trained professionals only.  
 The electrical power must be cut off in order to work on the system.

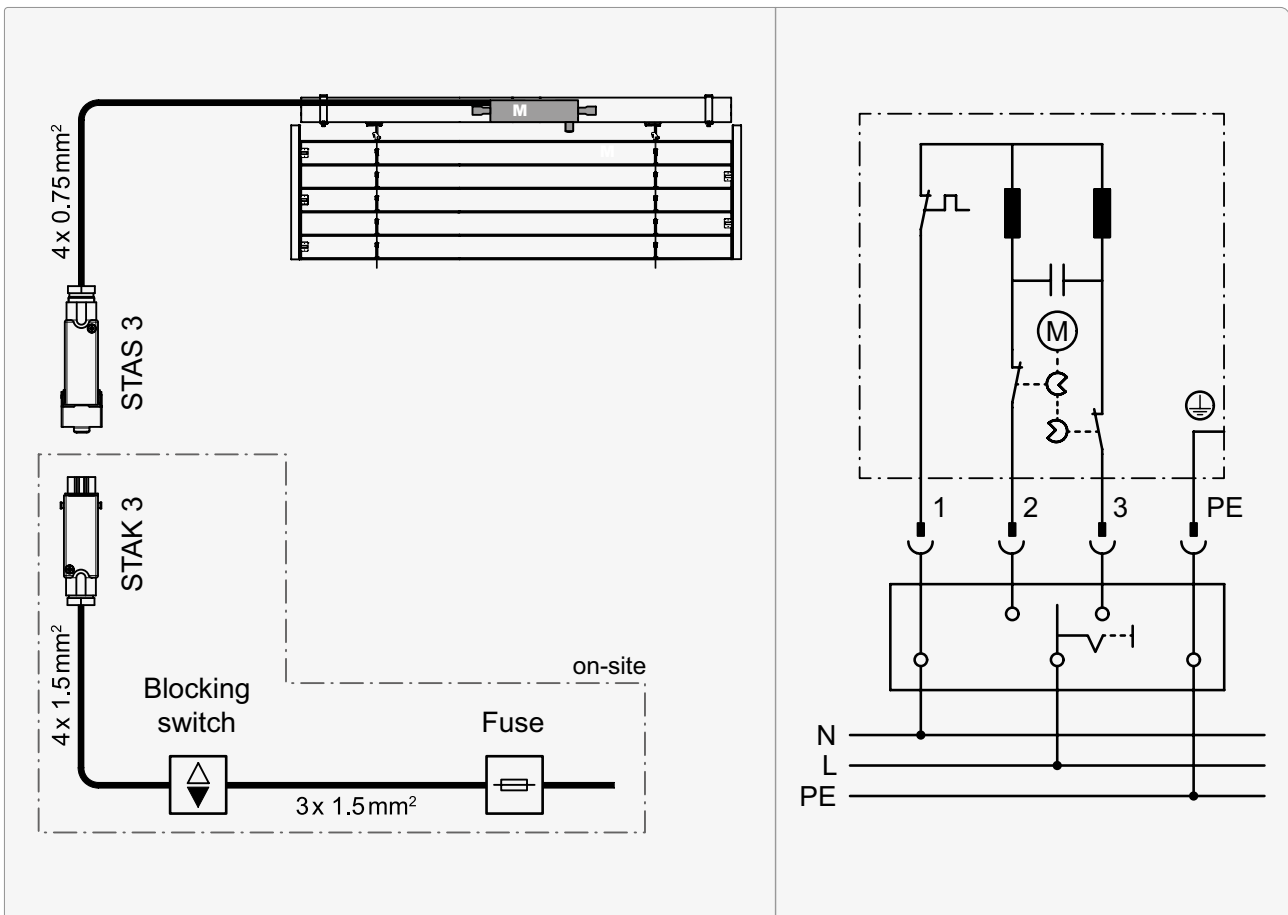
The operating commands must be locked mechanically or electrically and have a changeover time of min. 500 ms.

Motors must not be switched in parallel.

The snap holders must be mutually locking.

**Caution! Incorrectly connecting the motor can cause damage!**

### Connection diagramm



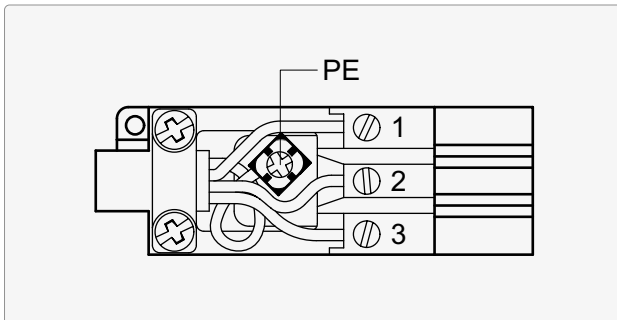
↓ STAS3-2E



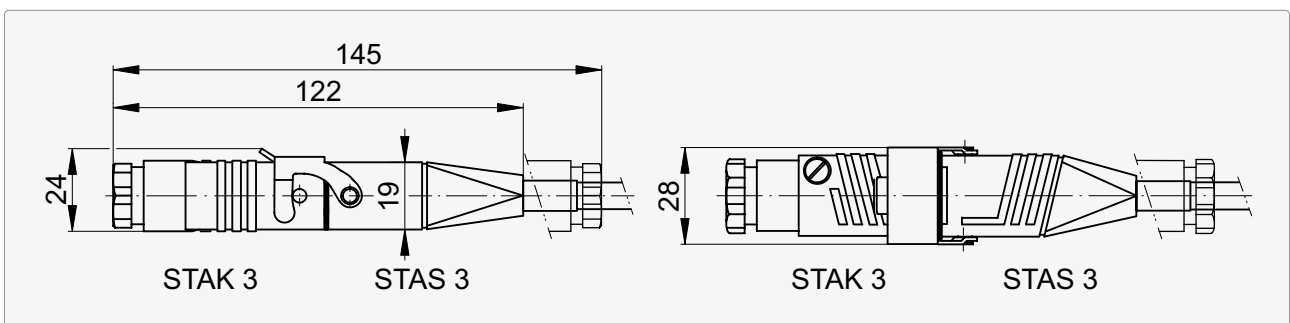


▶▶ STAS3-2E

Plug STAK 3



1	N	Neutral connector	blue
2	△	Up	brown
3	▼	Down	black
PE	⊕	Protective connector	yellow/green





## STAS4-3E Comfort



### Technical data

<b>Power supply</b>	<b>Number of end switches</b>
230 V AC	3

**!** Installation and maintenance work may be performed by trained professionals only. The electrical power must be cut off in order to work on the system.

The operating commands must be locked mechanically or electrically and have a changeover time of min. 500 ms.

No more than two comfort motors should be connected in parallel to the same motor control.

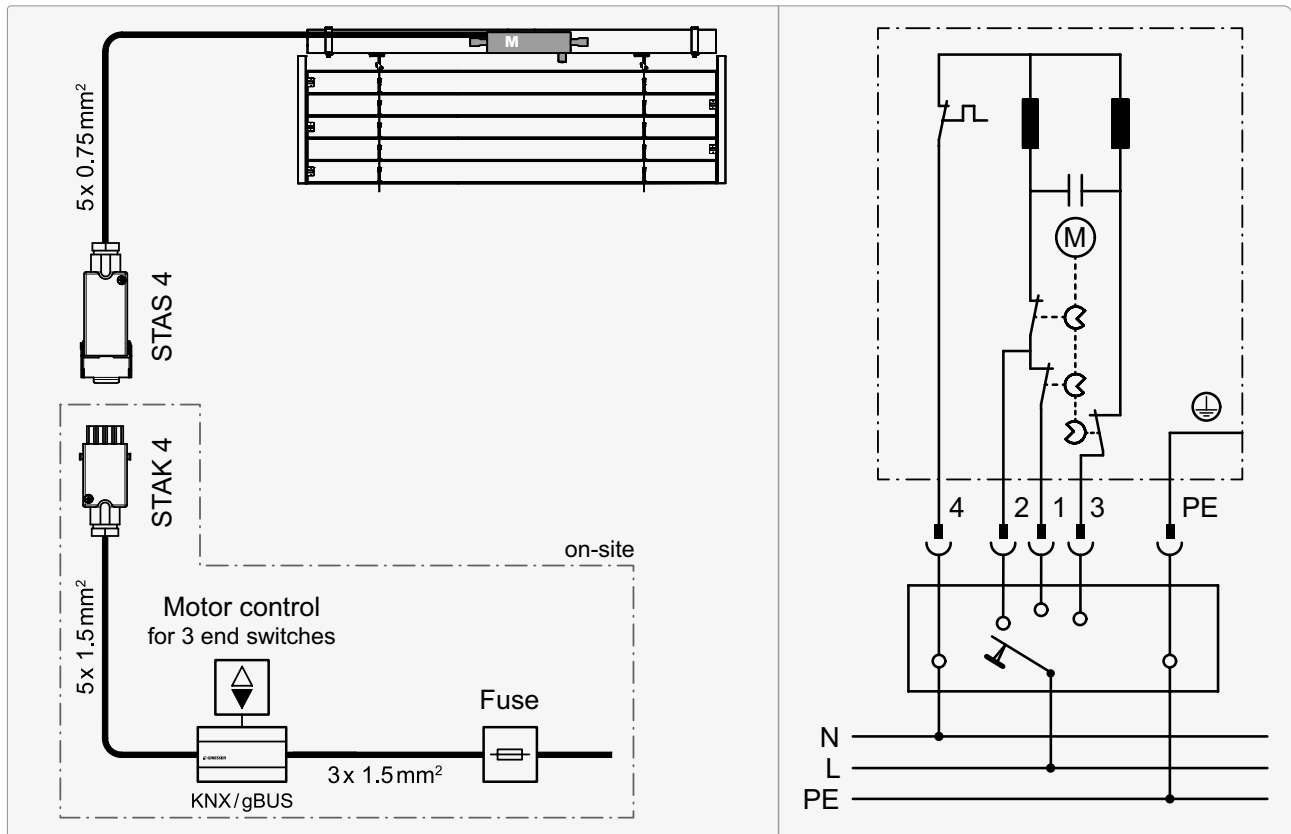
Local operation as per technical supplement for motor control unit.

**Caution! Incorrectly connecting the motor can cause damage!**

The switching current of the pre-fitted control must be taken into consideration!

**i** The comfort motor has at **starting current** of 1.0A.

### Connection diagramm



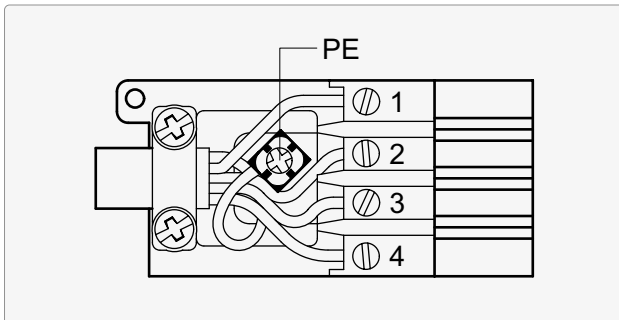
↓ [STAS4-3E Comfort](#)



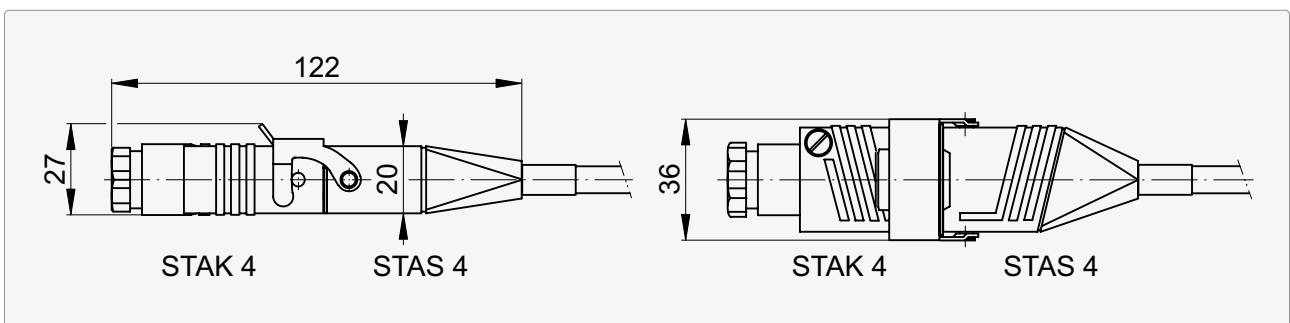


▶▶ STAS4-3E Comfort

Plug STAK 4



1	▼	Down 1	gray
2	▼	Down 2	black
3	△	Up	brown
4	N	Neutral connector	blue
PE	⊕	Protective connector	yellow/green





## STAS3-2E Comfort



### Technical data

<b>Power supply</b>	<b>Number of end switches</b>
230 V AC	2

**!** Installation and maintenance work may be performed by trained professionals only. The electrical power must be cut off in order to work on the system.

The operating commands must be locked mechanically or electrically and have a changeover time of min. 500 ms.

No more than two comfort motors should be connected in parallel to the same motor control.

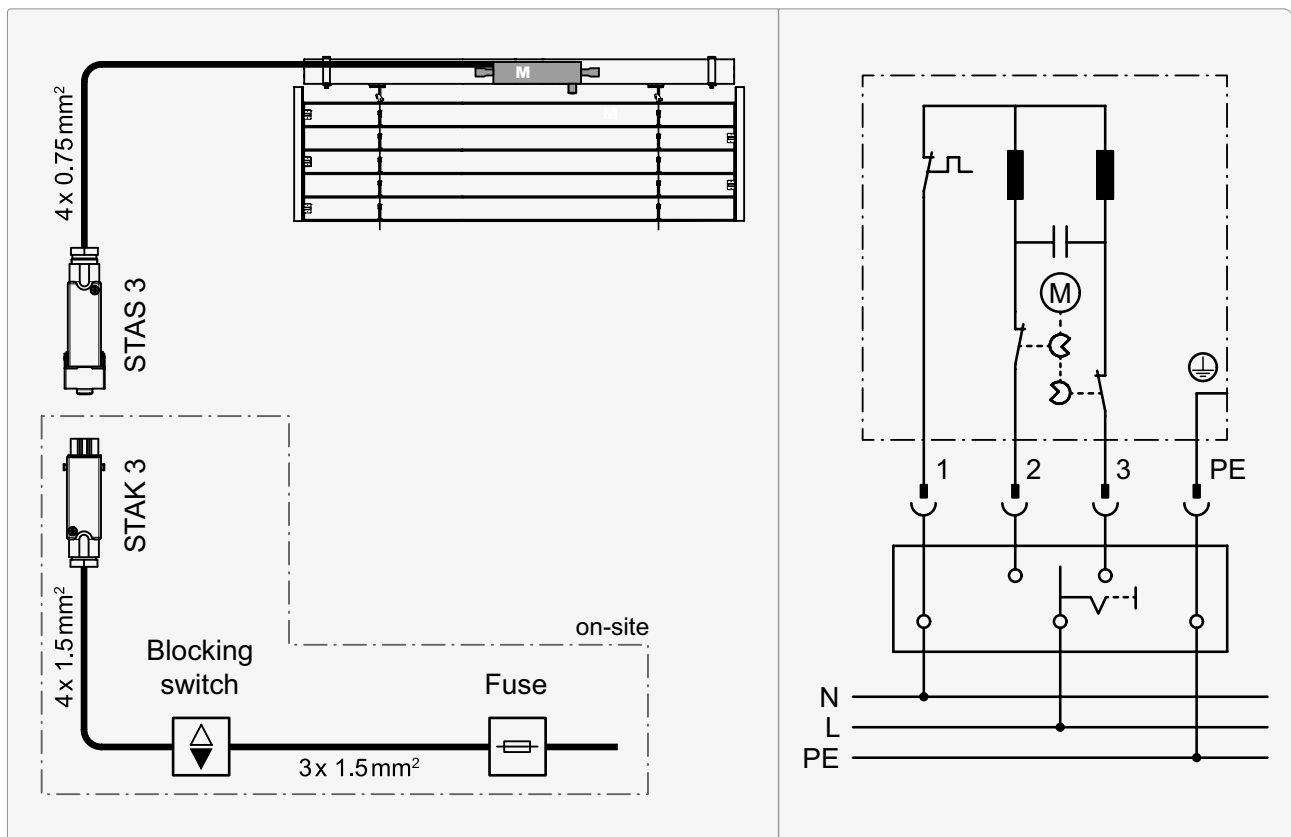
The snap holders must be mutually locking.

**Caution! Incorrectly connecting the motor can cause damage!**

The switching current of the pre-fitted safety fuse must be taken into consideration!

**i** The comfort motor has at **starting current** of 1.0A.

### Connection diagramm



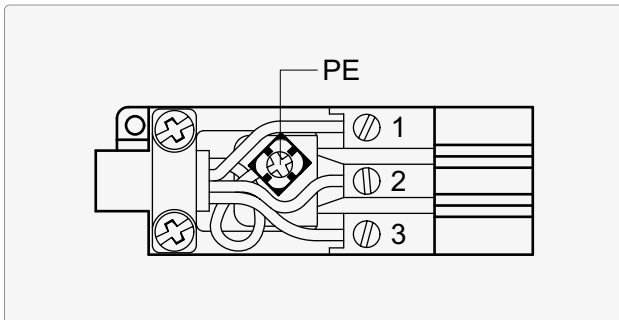
↓ [STAS3-2E Comfort](#)



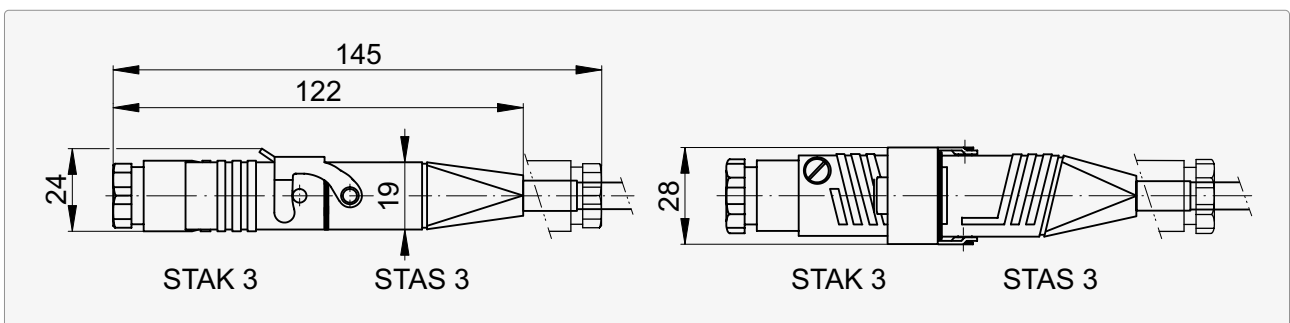


▶▶ STAS3-2E Comfort

Plug STAK 3



1	N	Neutral connector	blue
2	△	Up	brown
3	▼	Down	black
PE	⊕	Protective connector	yellow/green





## STAS3-3E BiLine Comfort



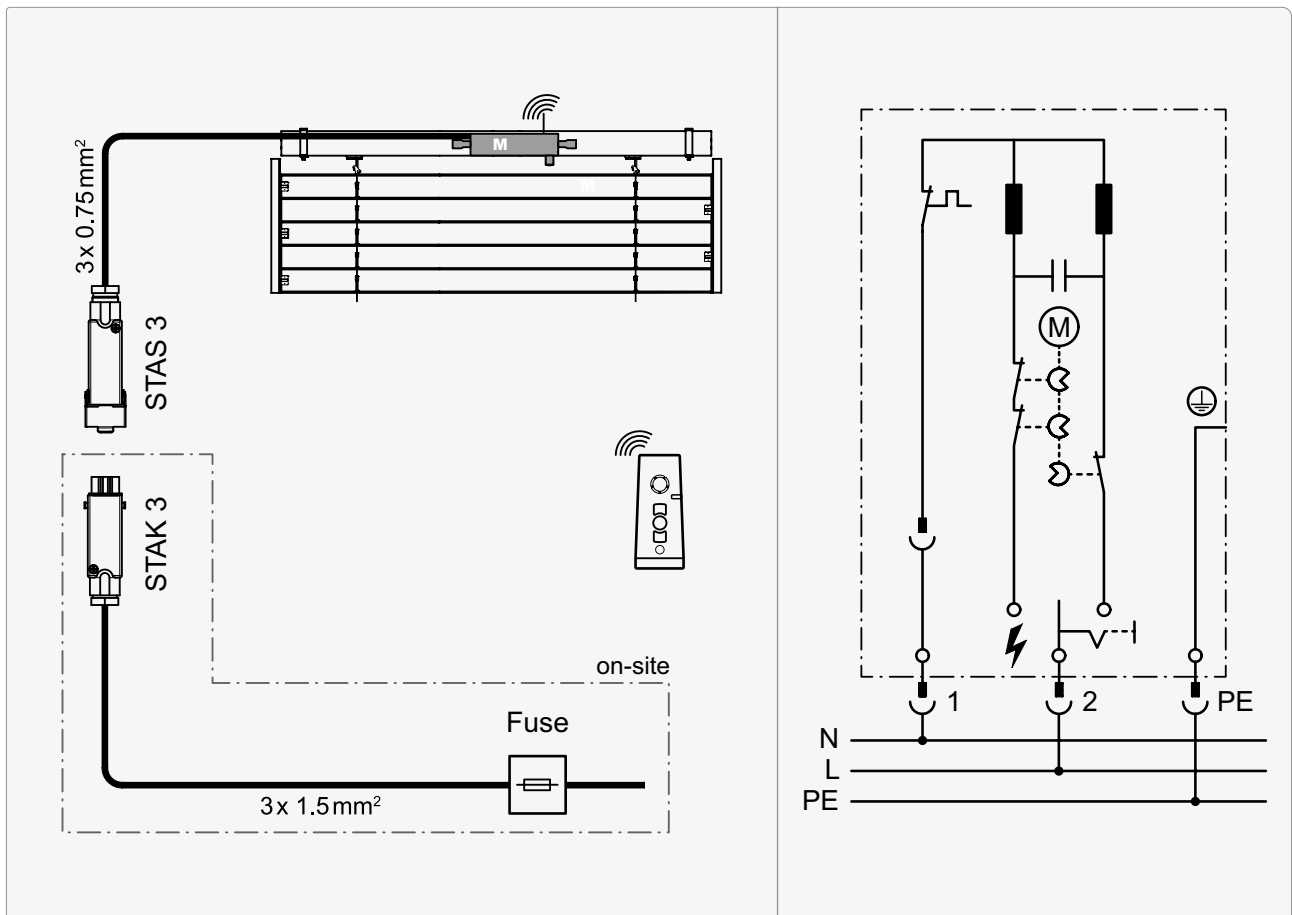
### Technical data

<b>Power supply</b>	<b>Number of end switches</b>
230 V AC	3

**!** Installation and maintenance work may be performed by trained professionals only.  
The electrical power must be cut off in order to work on the system.

**i** The comfort motor has at **starting current** of 1.0A.

### Connection diagramm



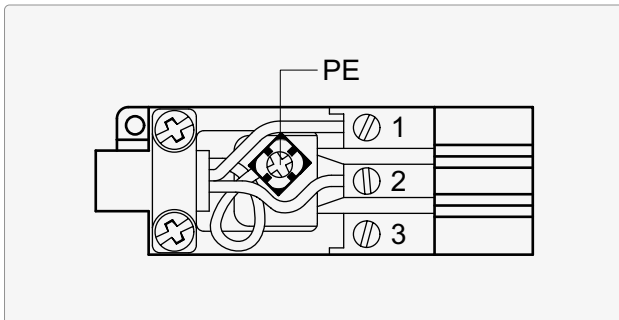
↓ [STAS3-3E BiLine Comfort](#)



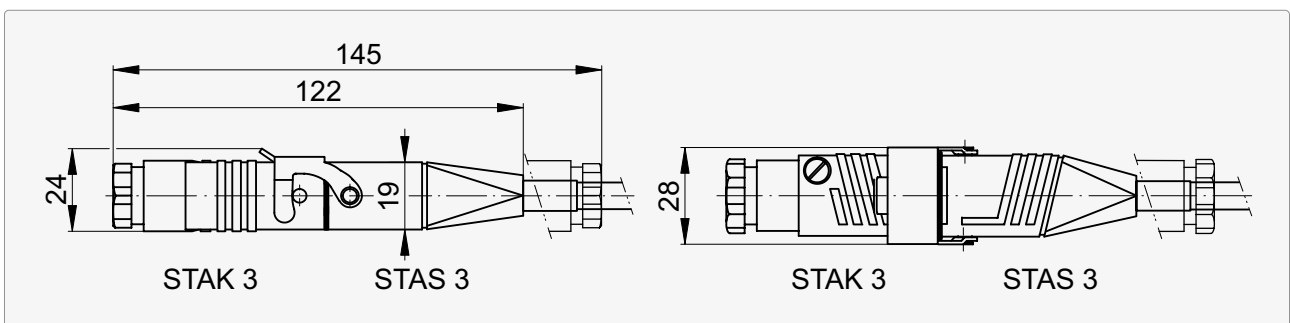


▶▶ STAS3-3E BiLine Comfort

Plug STAK 3



1	N	Neutral connector	blue
2	L	Phase	brown
3			
PE	⊕	Protective connector	yellow/green





## STAS3-2E BiLine Comfort



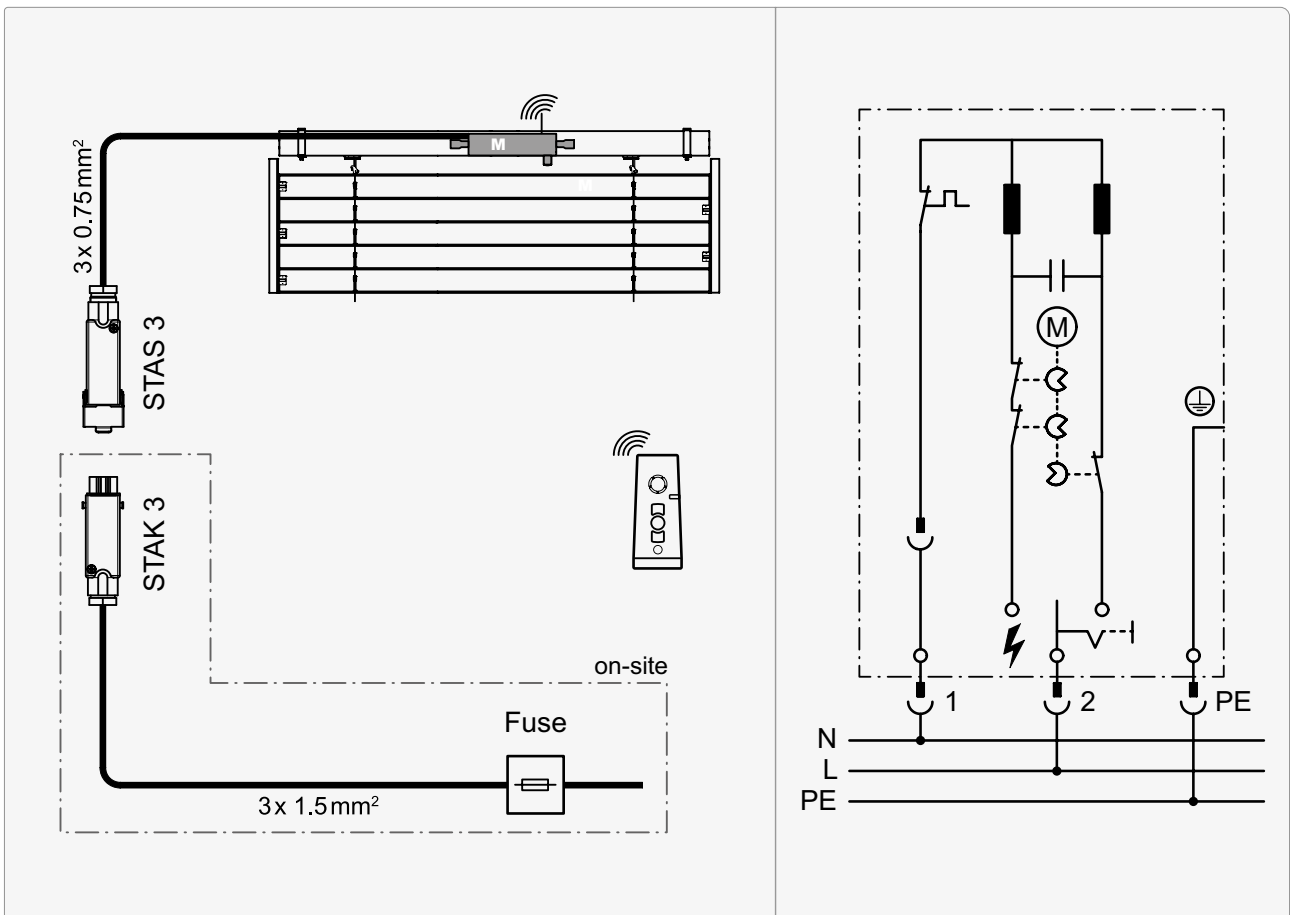
### Technical data

<b>Power supply</b>	<b>Number of end switches</b>
230 V AC	2

**!** Installation and maintenance work may be performed by trained professionals only.  
The electrical power must be cut off in order to work on the system.

**i** The comfort motor has at **starting current** of 1.0A.

### Connection diagramm



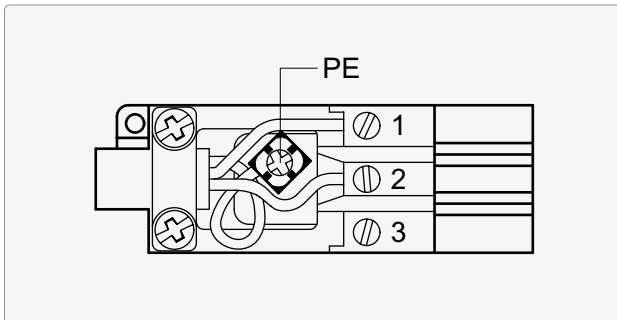
↓ [STAS3-2E BiLine Comfort](#)



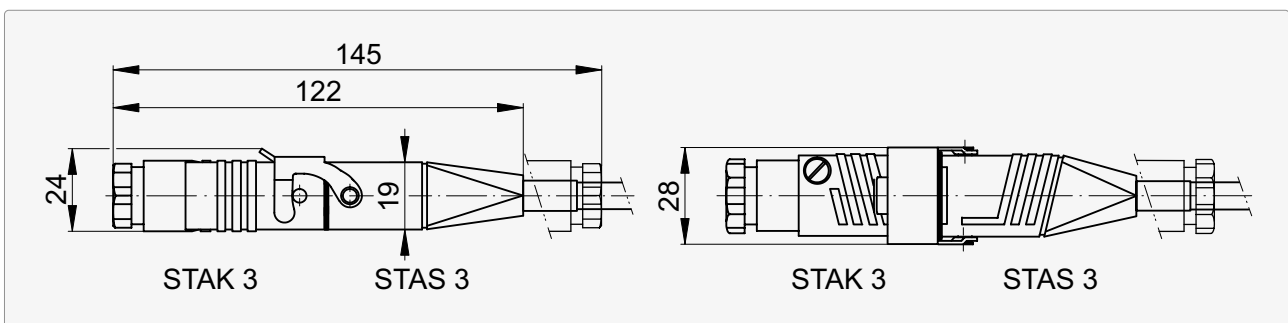


## ▶▶ STAS3-2E BiLine Comfort

### Plug STAK 3



1	N	Neutral connector	blue
2	L	Phase	brown
3			
PE	⊕	Protective connector	yellow/green





## STAS3-2E Geiger AIR

### Technical data

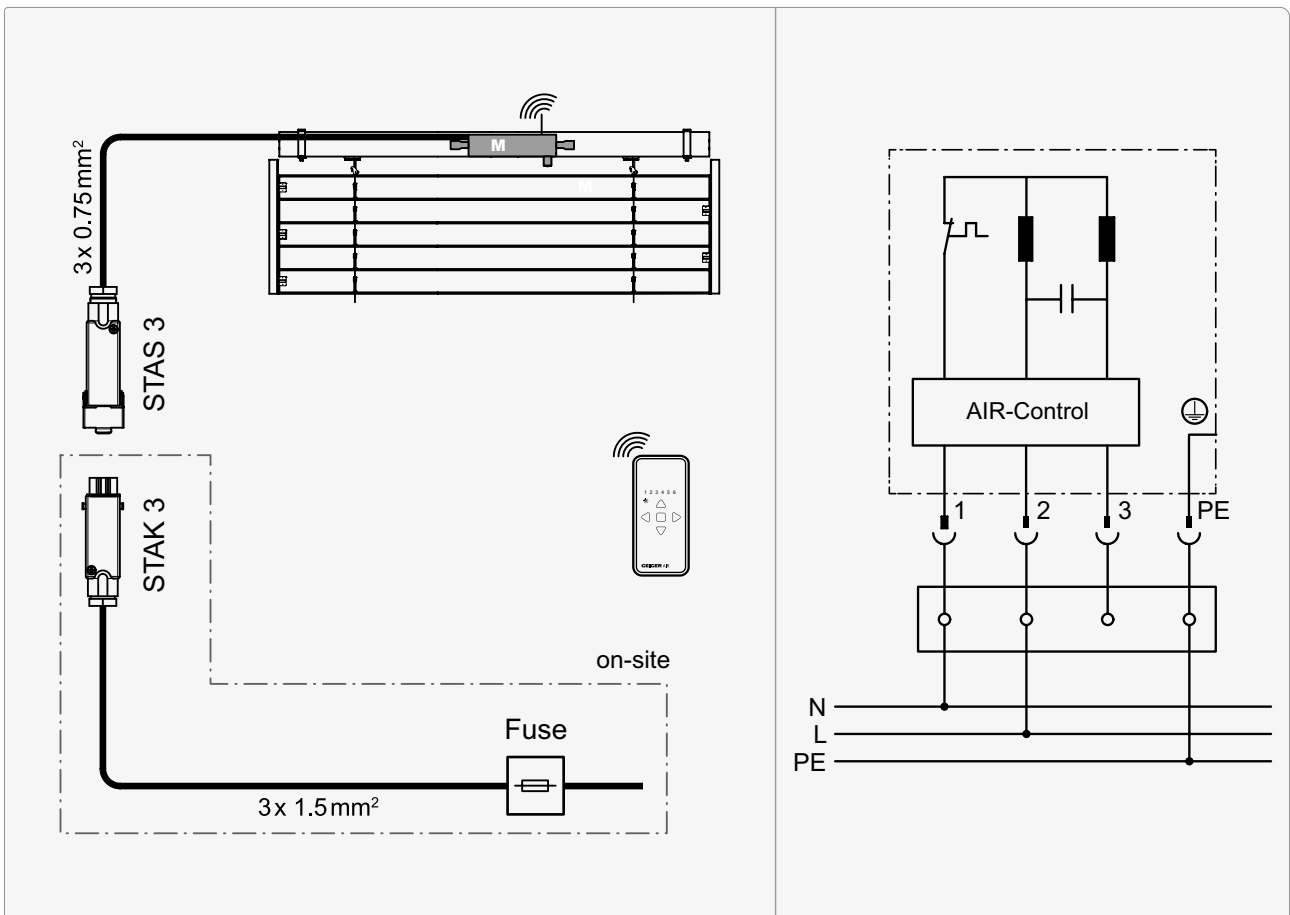
Power supply	Number of end switches
230 V AC	2

**!** Installation and maintenance work may be performed by trained professionals only.  
The electrical power must be cut off in order to work on the system.

**i** The Geiger AIR motor has the following **starting currents**:

- GA06.01: 0.48A
- GA10.01: 0.72A
- GA20.01: 1.14A

### Connection diagramm



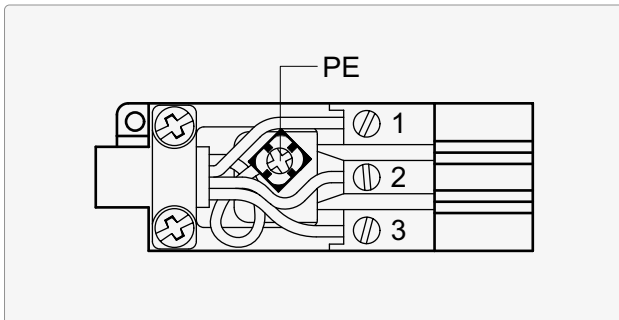
↓ [STAS3-2E Geiger AIR](#)



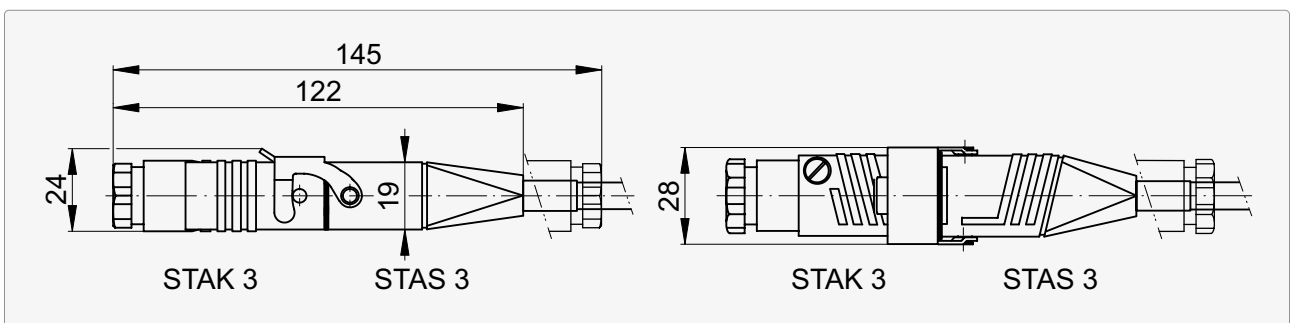


▶▶ STAS3-2E Geiger AIR

Plug STAK 3



1	N	Neutral connector	blue
2	L	Phase	brown
3			
PE	⊕	Protective connector	yellow/green





**STAS3-2E RTS | STAS3-2E IO**

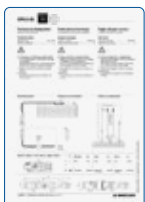
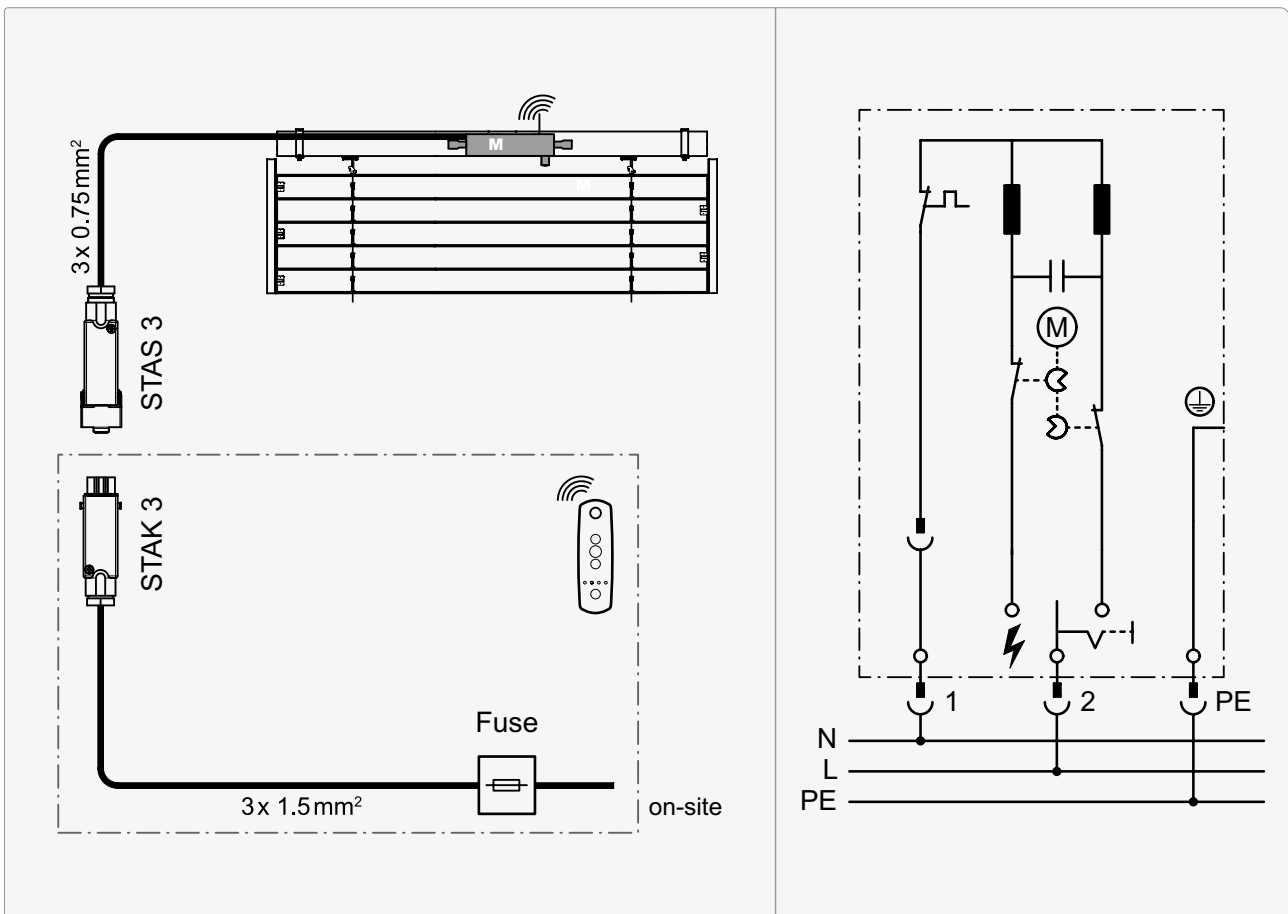


**Technical data**

Power supply	Number of end switches
230 V AC	2

**!** Installation and maintenance work may be performed by trained professionals only.  
 The electrical power must be cut off in order to work on the system.  
 The operating commands must be locked mechanically or electrically and have a changeover time of min. 500 ms.  
 Motors must not be switched in parallel.  
 Caution! Incorrectly connecting the motor can cause damage!

**Connection diagramm**



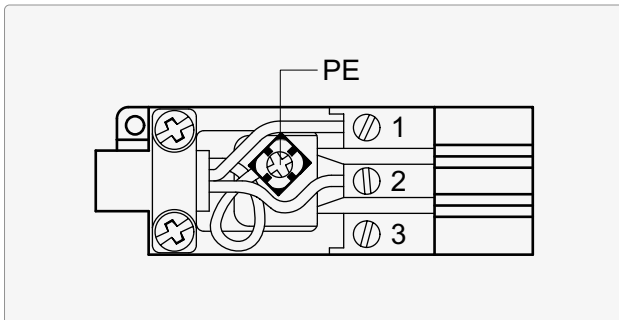
[↓ STAS3-2E RTS | STAS3-2E IO](#)



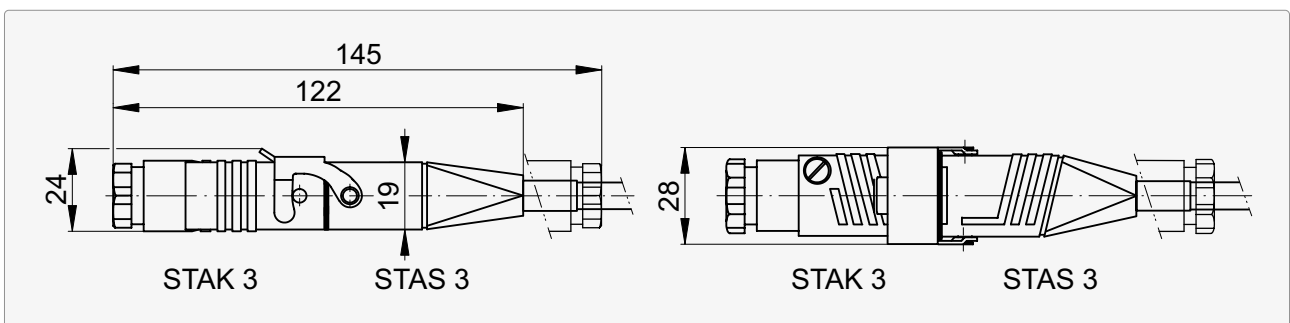


▶▶ STAS3-2E RTS | STAS3-2E IO

Plug STAK 3



1	N	Neutral connector	blue
2	L	Phase	brown
3			
PE	⊕	Protective connector	yellow/green





## STAS3-2E Rolling shutters | Awnings

### Technical data

<b>Power supply</b>	<b>Number of end switches</b>
230 V AC	2

**!** Installation and maintenance work may be performed by trained professionals only. The electrical power must be cut off in order to work on the system.

The operating commands must be locked mechanically or electrically and have a changeover time of min. 500 ms.

Motors must not be switched in parallel.

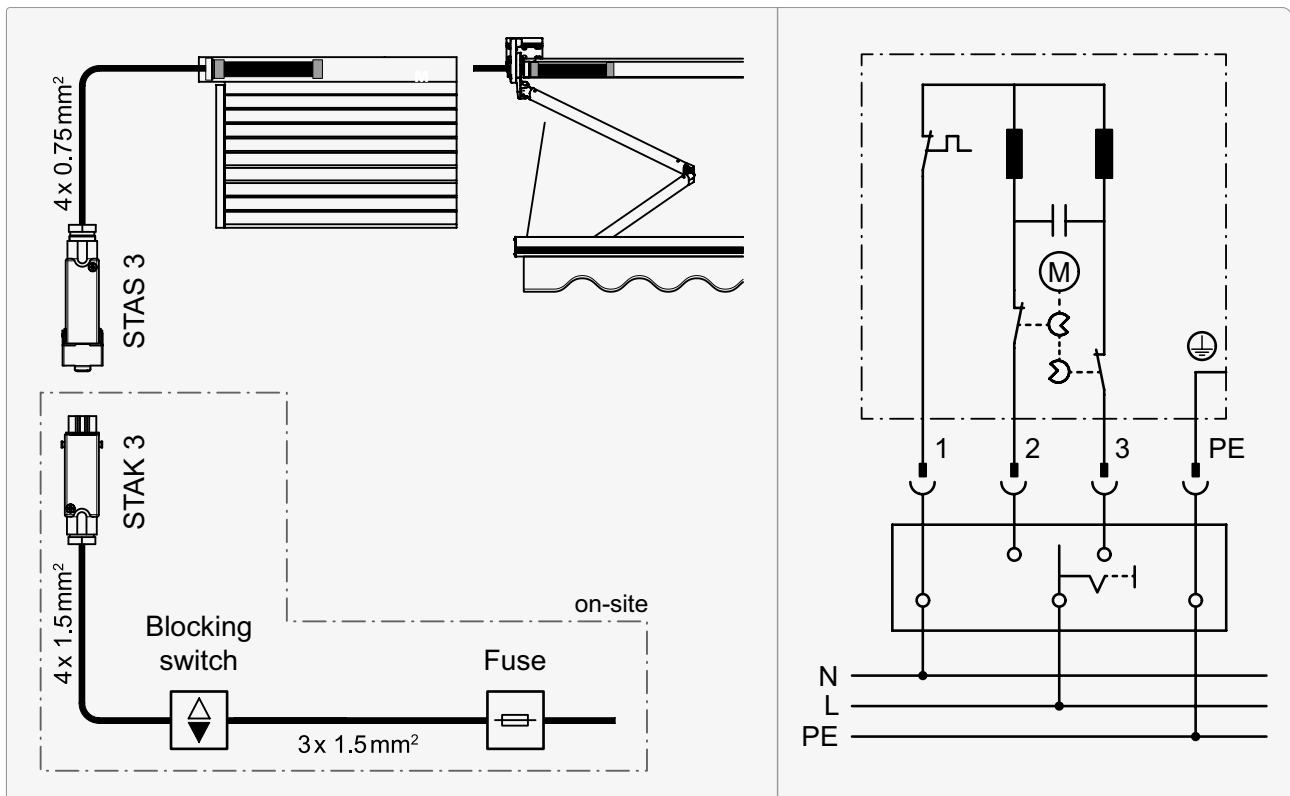
The snap holders must be mutually locking.

**Caution! Incorrectly connecting the motor can cause damage!**

**i** Motor fitted on left/right = other direction of rotation.

If a motor is **rotating the wrong way**, the **Up/Down connections** in the STAK 3 or on the blocking switch **should be swapped**.

### Connection diagramm



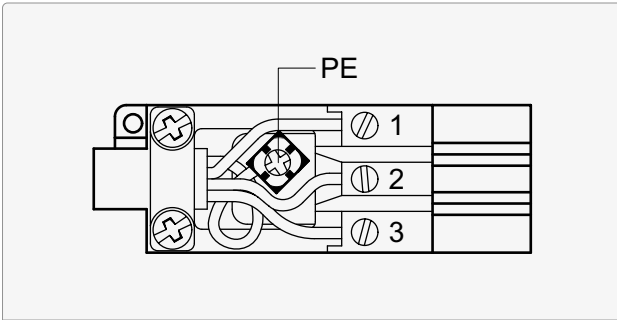
[↓ STAS3-2E Rolling shutters | Awnings](#)



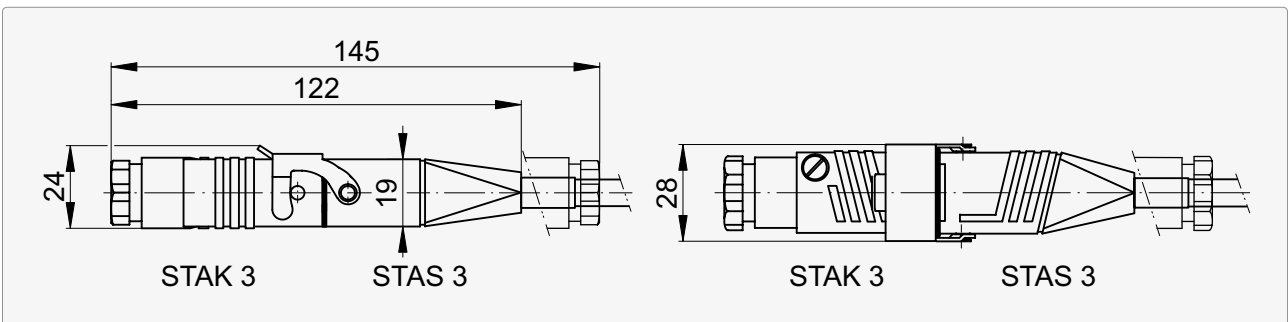


▶▶ STAS3-2E Rolling shutters | Awnings

Plug STAK 3



1	N	Neutral connector	blue
2	▲	Up/Down	brown/black
3	▼	Down/Up	black/brown
PE	⊕	Protective connector	yellow/green





## STAS3-2E RTS Rolling shutters | Awnings



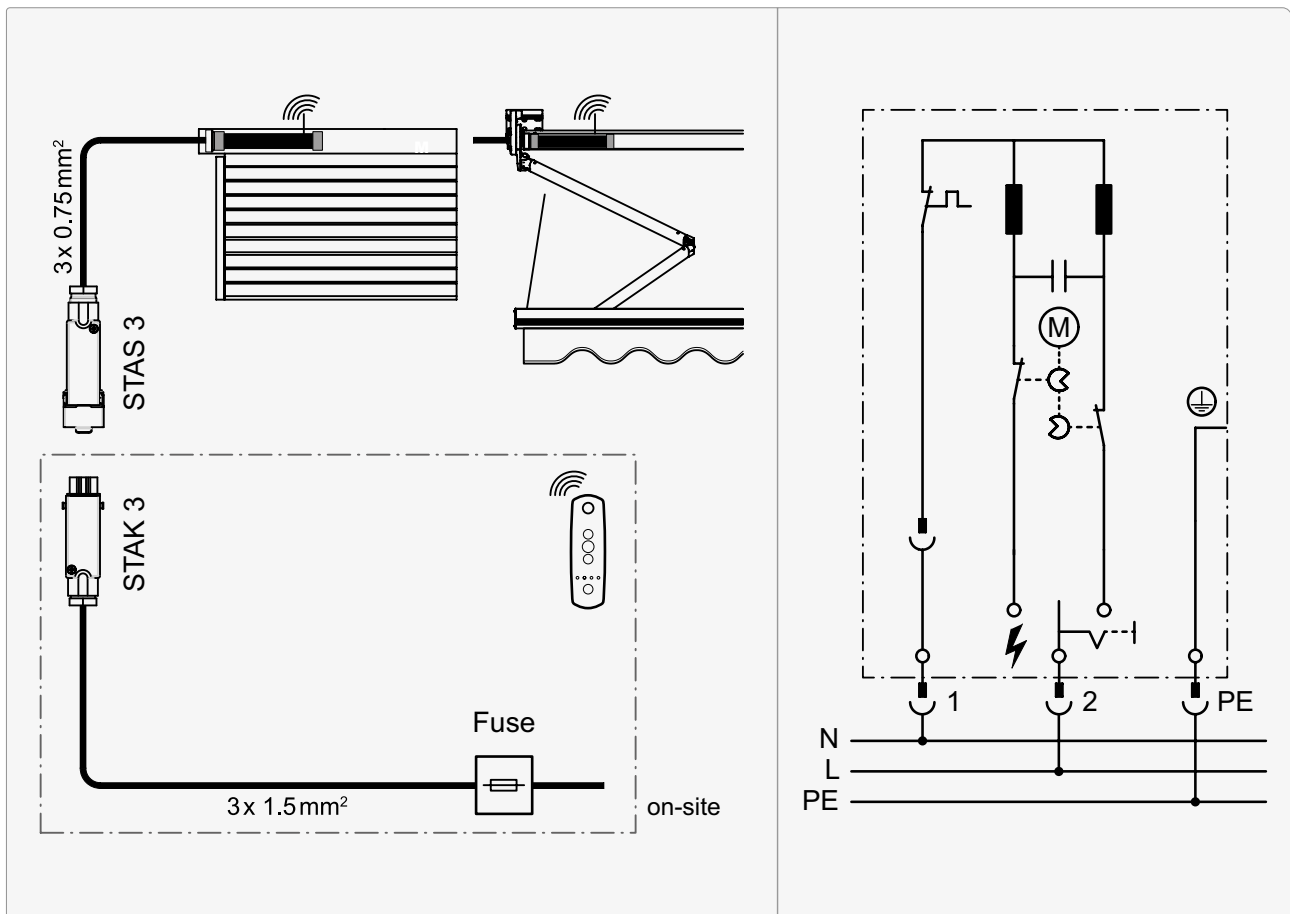
### Technical data

Power supply	Number of end switches
230 V AC	2

**!** Installation and maintenance work may be performed by trained professionals only.  
 The electrical power must be cut off in order to work on the system.  
 Motors must not be switched in parallel.  
 Caution! Incorrectly connecting the motor can cause damage!

**i** Motor fitted on left / right = other direction of rotation.

### Connection diagramm



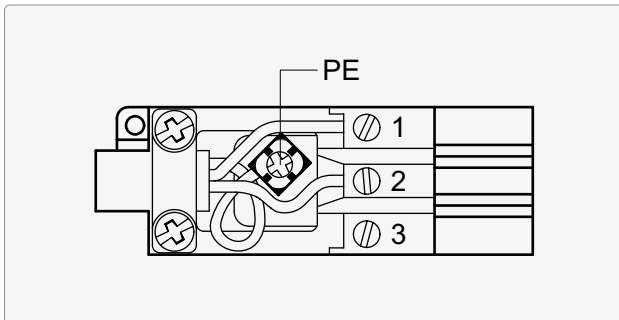
[↓ STAS3-2E RTS Rolling shutters | Awnings](#)



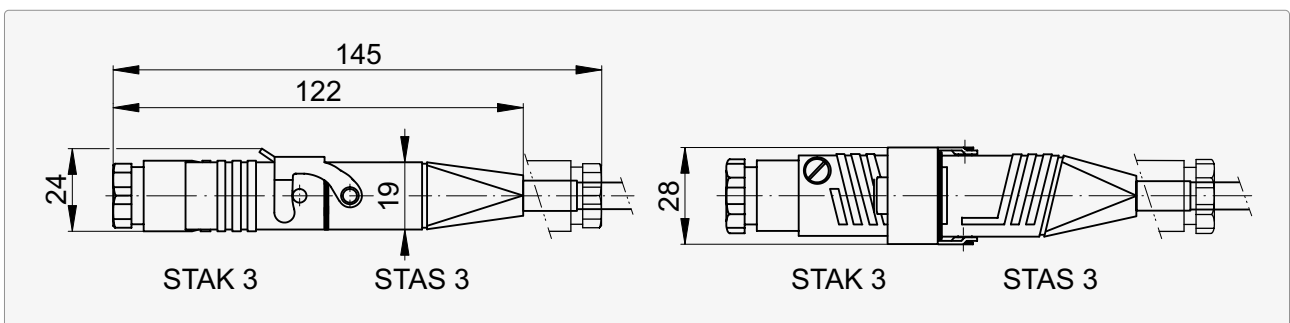


▶▶ STAS3-2E RTS Rolling shutters | Awnings

Plug STAK 3



1	N	Neutral connector	blue
2	L	Phase	brown
3			
PE	⊕	Protective connector	yellow/green





## WAGO-2E Rolpac® III

### Technical data

Motors: ILMO 40 WT 9/14 | ILMO 2 40 WT 9/14

Power supply	Number of end switches
230 V AC	2

**!** Installation and maintenance work may be performed by trained professionals only.  
 The electrical power must be cut off in order to work on the system.

The operating commands must be locked mechanically or electrically and have a changeover time of min. 500 ms.

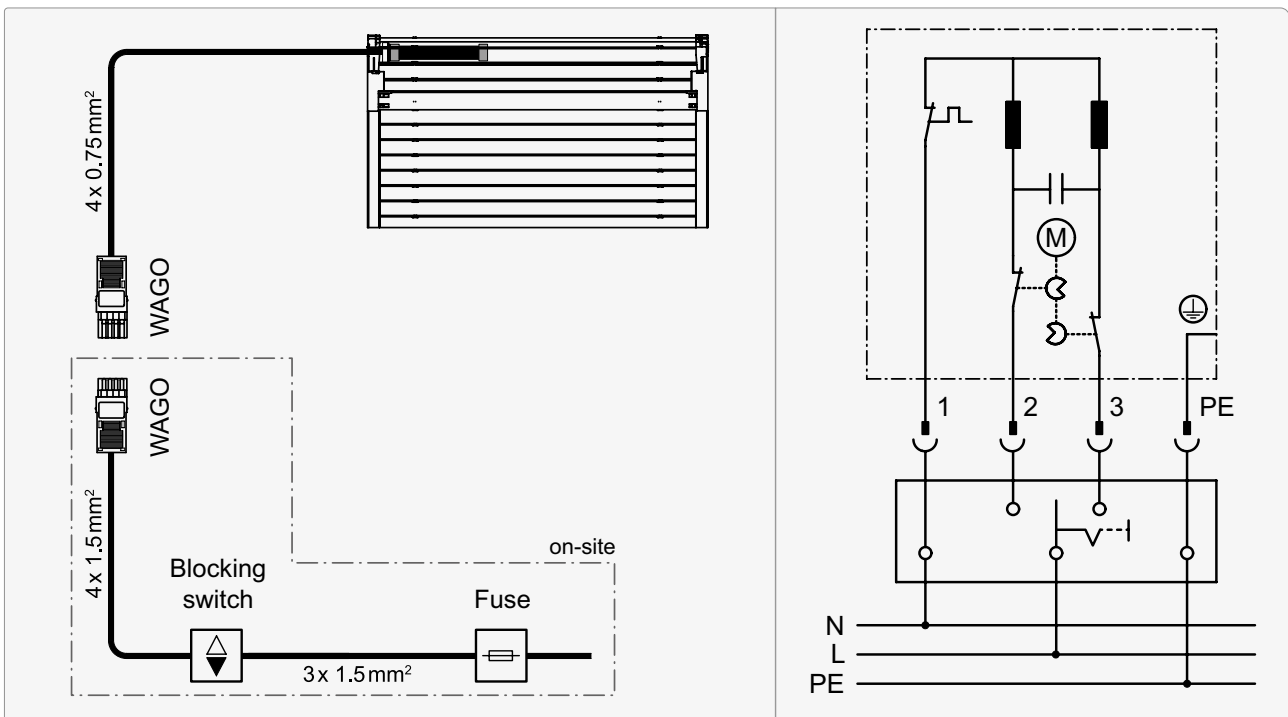
Motors must not be switched in parallel.

The snap holders must be mutually locking.

**Caution! Incorrectly connecting the motor can cause damage!**

**i** Motor fitted on left/right = other direction of rotation.  
 If a motor is **rotating the wrong way**, the **Up / Down connections** in the WAGO coupling or on the blocking switch should be swapped.

### Connection diagramm



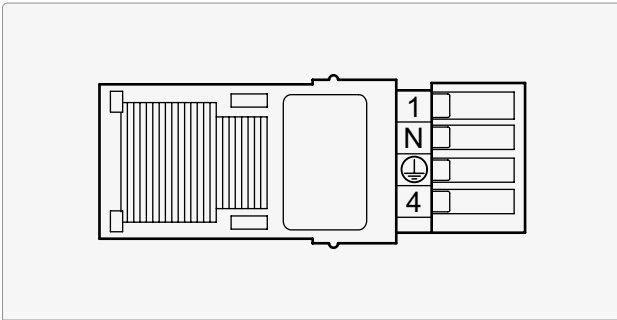
↓ [WAGO-2E Rolpac III](#)



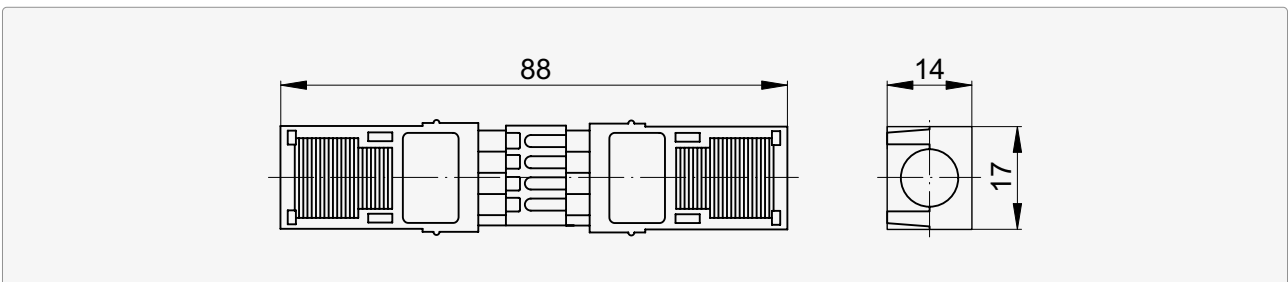


▶▶ **WAGO-2E Rolpac® III**

**Plug WAGO**



1		Up/Down	brown/black
N	N	Neutral connector	blue
		Protective connector	yellow/green
4		Down/Up	black/brown





## WAGO-2E Rolpac® III RTS-IO

### Technical data

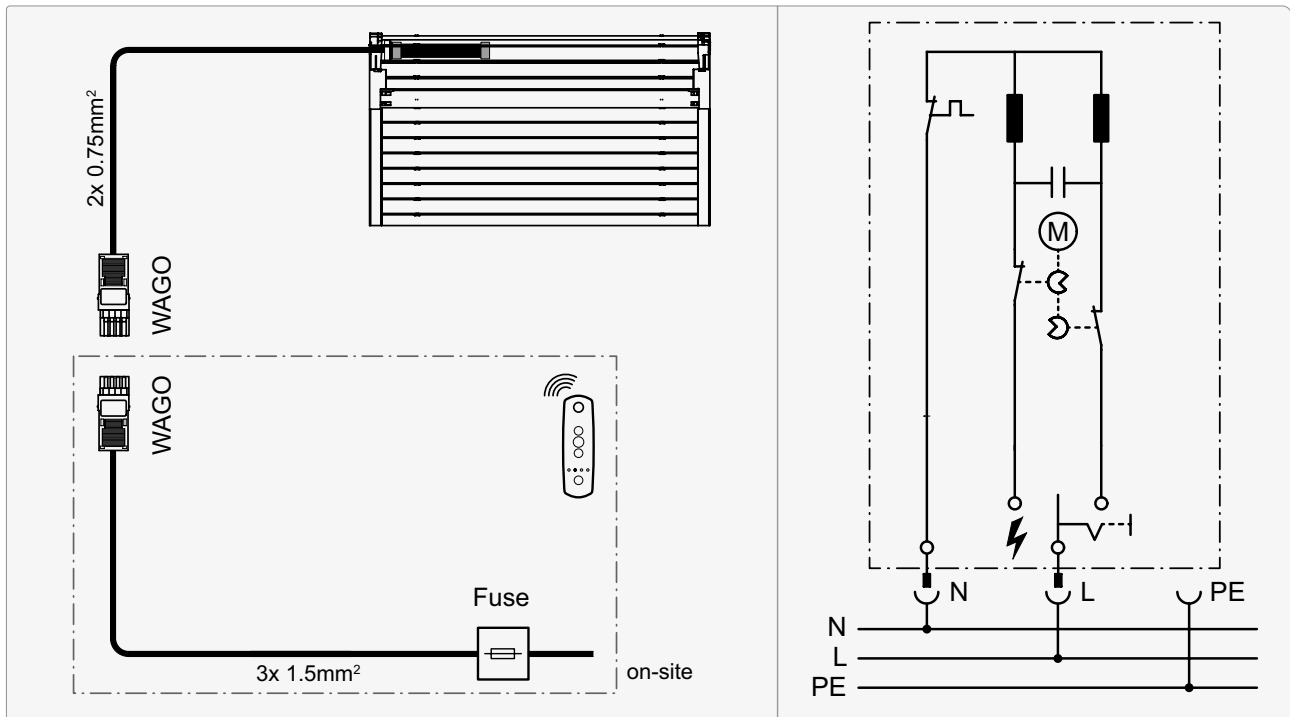
Motor: Oximo 40 IO

Power supply	Number of end switches
230 V AC	2

**!** Installation and maintenance work may be performed by trained professionals only.  
 The electrical power must be cut off in order to work on the system.  
**Caution! Incorrectly connecting the motor can cause damage!**

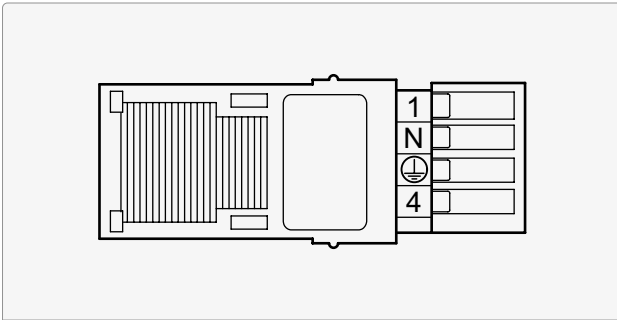
**i** Motor fitted on left/right = other direction of rotation.  
 If a motor is **rotating the wrong way**, the **Up / Down connections** in the WAGO coupling or on the blocking switch **should be swapped**.

### Connection diagramm

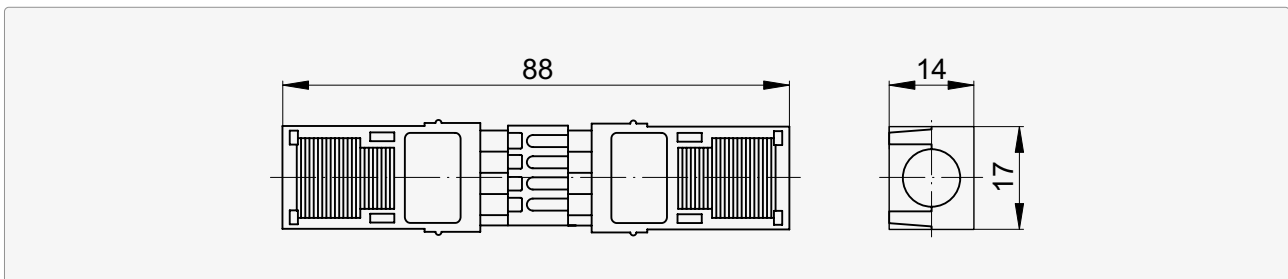


[↓ WAGO-2E Rolpac III RTS-IO](#)



**▶▶ WAGO-2E Rolpac® III RTS-IO****Plug WAGO**

1	L	Connector	brown/black
N	N	Neutral connector	blue







# Power supply for radio receiver

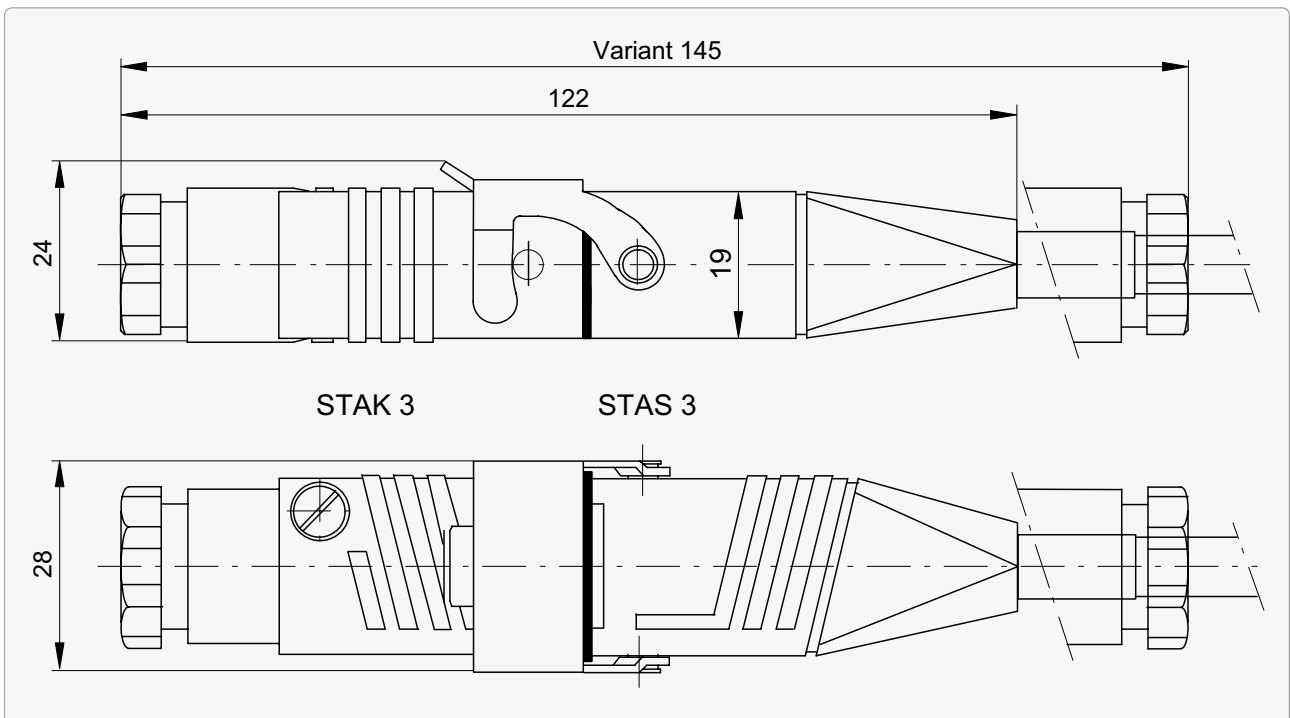
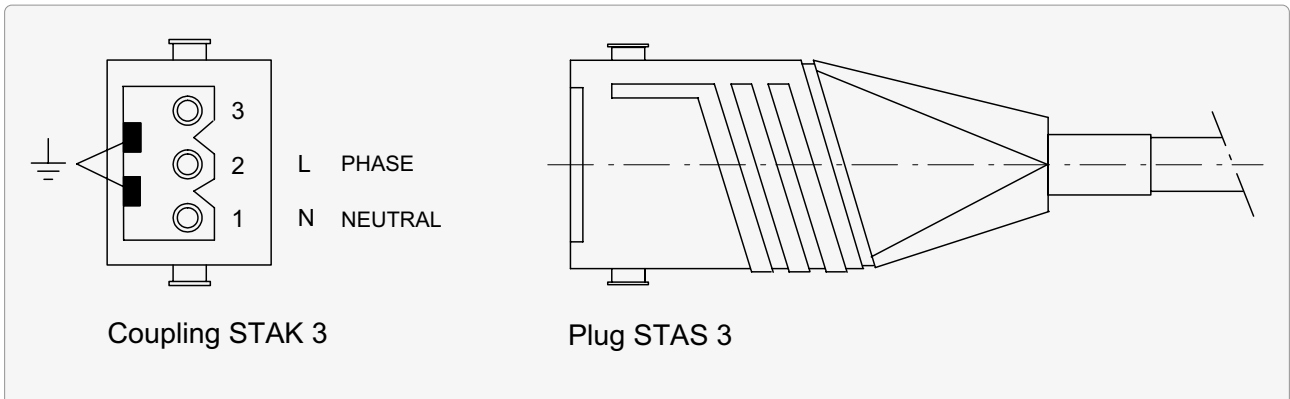
Hirschmann coupling STAK3	<b>32</b>
Wago coupling drive for Rolpac® III	<b>33</b>

---



### Hirschmann coupling STAK3

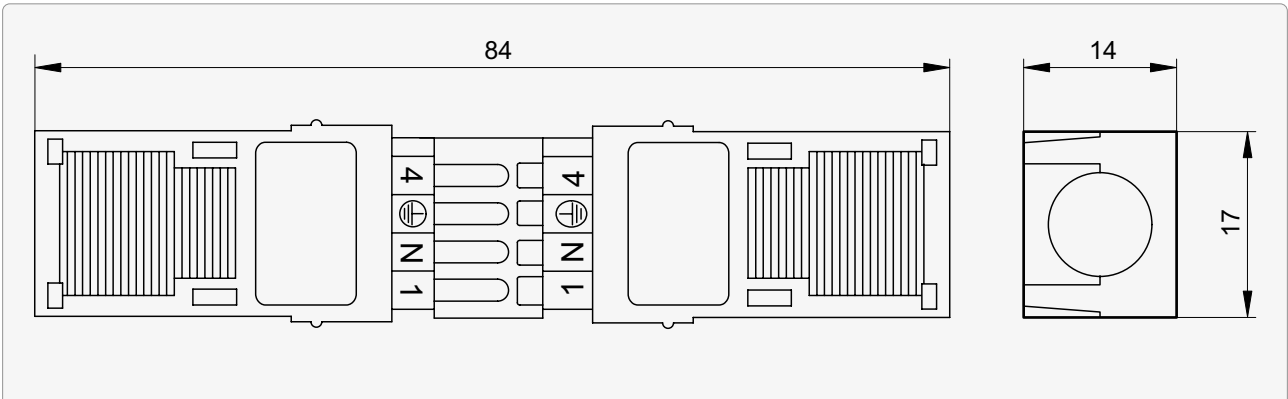
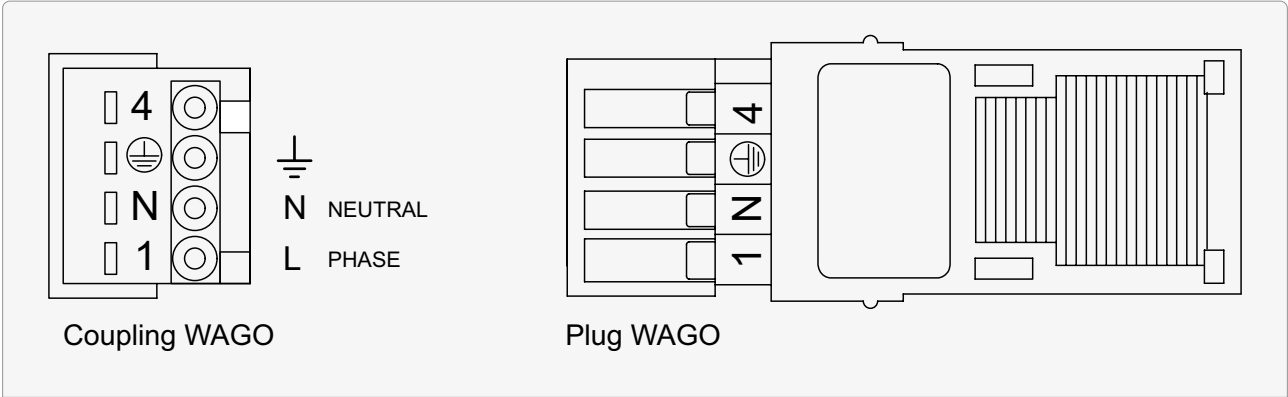
Power supply: 230 VAC





### Wago coupling drive for Rolpac® III

Power supply: 230 VAC







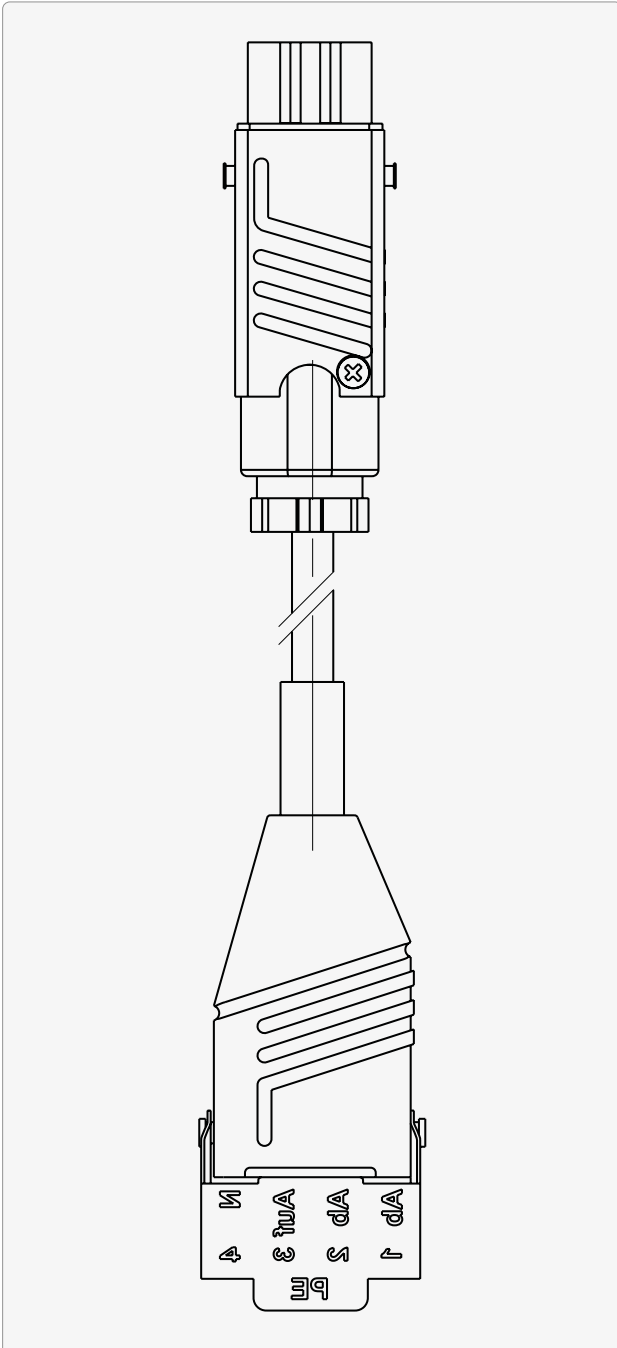
# Cable connections

Cable connection STAK 3   STAS 4	36
Cable connection STAK 4   STAS 3	36



### Cable connection STAK 3 | STAS 4

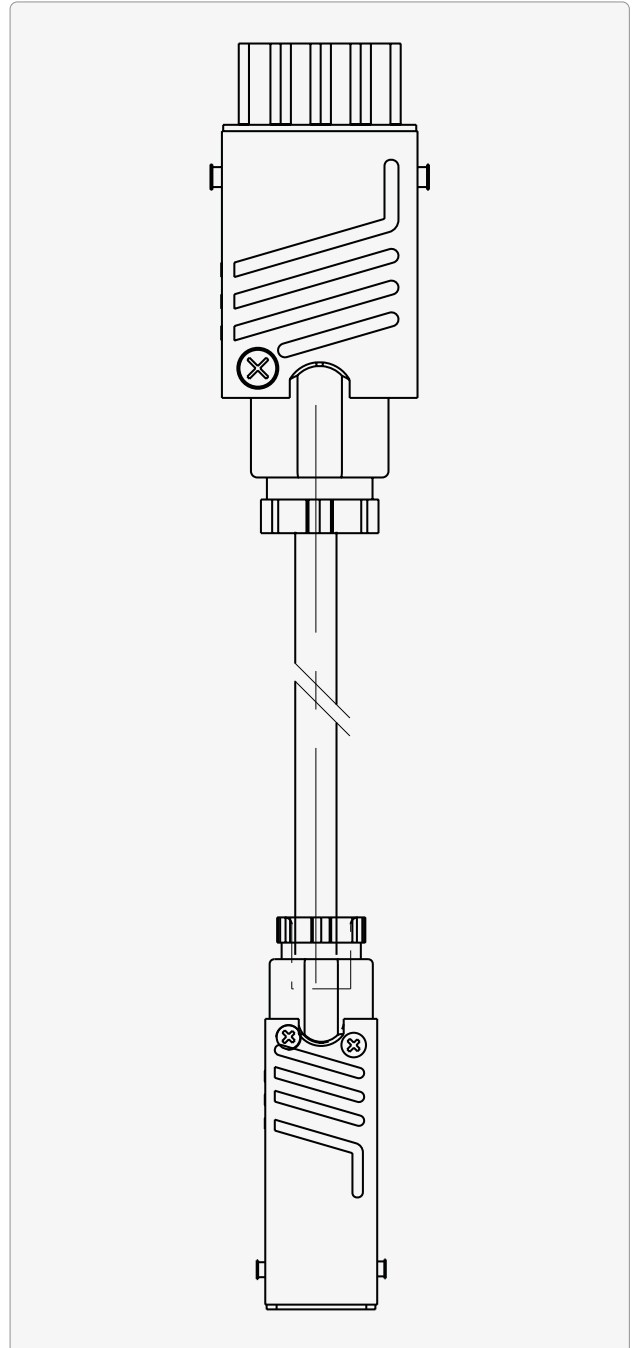
- 1 N
- 2 RAISE
- 3 LOWER
- ⚡ yellow/green



- 1 -
- 2 LOWER
- 3 RAISE
- 4 N
- ⚡ yellow/green

### Cable connection STAK 4 | STAS 3

- 1 -
- 2 LOWER
- 3 RAISE
- 4 N
- ⚡ yellow/green



- 1 N
- 2 RAISE
- 3 LOWER
- ⚡ yellow/green







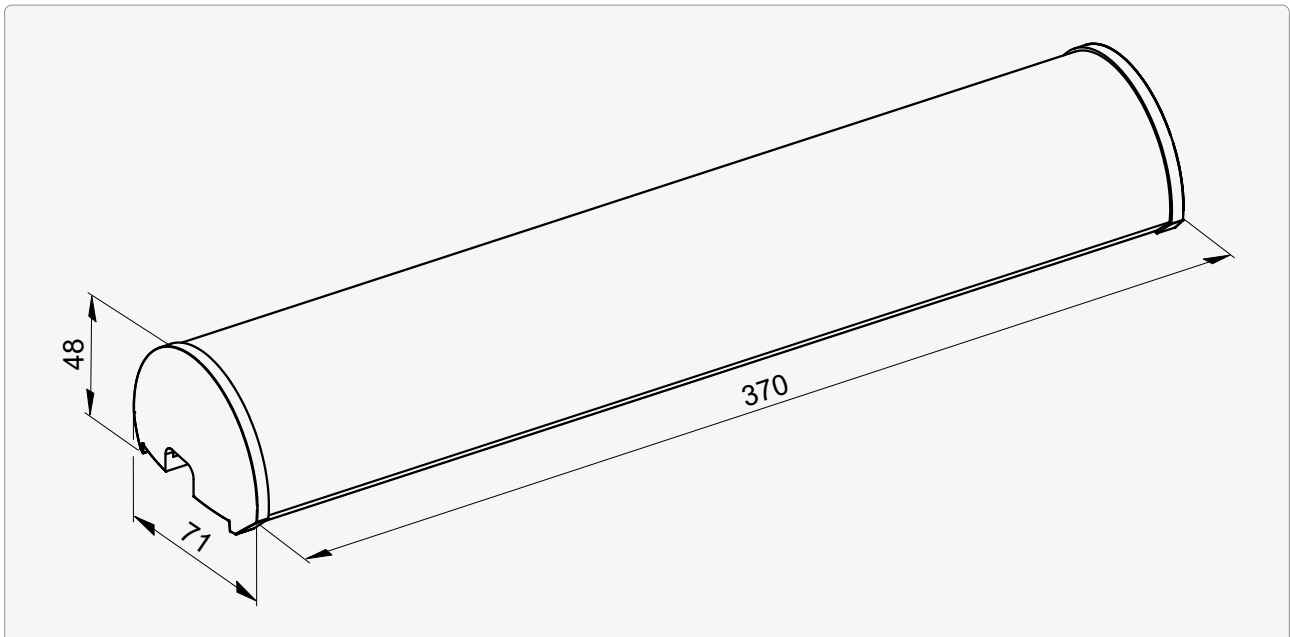
## Min. space requirem. for plugs/radio receivers

Design bar	40
Niches	40



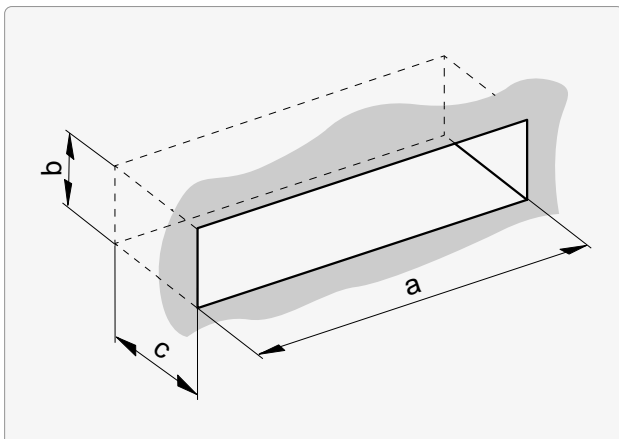
## Design bar

Provides space for connecting a maximum of 2 plug connectors and 1 radio receiver.



**i** The dimensions **do not include space for extra-long** connecting **cables**.

## Niches



**i** The antenna of the radio receiver **must protrude to the niche** if the niche is covered metallically.

Space for	a min.	b min.	c min.
1 connector pair	220	50	50
2 connector pairs + 1 radio receiver	220	90	90







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**Cable connections 35**
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**D**
**Design bar for plugs and radio receivers 40**
**N**
**Niches for plugs and radio receivers 40**
**P**
**Power supply for radio receiver**

Hirschmann coupling STAK3	<b>32</b>
Wago coupling drive for Rolpac® III	<b>33</b>

**S**
**Space requirements for plugs and radio receivers 39**









Inspired by the **Sun.**

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[griesser.com](https://griesser.com)



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