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**Tubular drive**  
**SunTop/Z M**

**1 Operating and installation instructions**

Please keep these operating instructions for later use, to be available throughout the life of the product!

**The German manual is the original version.** All other documents represent the language translations of the original text.

All rights in the case of a patent, utility model or ornamental design registration are reserved.

**2 General for instructions**

The content structure is based on the life cycles of the electric motor drive (hereinafter referred to as "Product").

The manufacturer reserves the right to make changes to the Specifications stated in these Operating Instructions at any time. These may, in individual cases, be different from the respective product version, however the functional information will not undergo significant changes or become invalid. The current version of the Specifications may be requested from the manufacturer at any time. No claims may be asserted against the manufacturer as a result of the preceding sentence. Deviations from text or picture statements are possible and depend on the technical development, features, and accessories of the products. Deviating information on special versions will be explained by the manufacturer in the sales documentation. Other information shall remain unaffected by these provisions.

**2.1 Standards and Directives**

During the design process, the basic health and safety requirements of the applicable laws, Standards and Directives were complied with. The safety is confirmed by the declaration of conformity (see "Declaration of Conformity"). All safety information in these Operating Instructions refer to the laws and regulations currently applicable in Germany. All instructions in the Operating Instructions shall be observed without limitation and at any time. Beside the

safety instructions contained in these Operating Instructions, the provisions for accident prevention, environmental protection and occupational safety, which are applicable for the operating site, must be observed. Provisions and Standards for the safety rating can be found in the Declaration of Conformity.

Observe the permitted load on the coiling shaft used and the product and safety documentation of the curtain supplier.

### 2.2 Intended use

The product is intended for use to drive electrically powered sun protection devices.

The determining factor for the drive is the elero drive computation program ([www.elero.de/antriebsberechnungsprogramm](http://www.elero.de/antriebsberechnungsprogramm)).

Further fields of application have to be arranged with the manufacturer, elero GmbH Antriebstechnik (see "Manufacturer's Address").

The operator will be solely responsible for damages resulting from improper use of the product. The manufacturer cannot be held liable for personal or material damages caused by misuse or procedural errors, and by improper operation and commissioning.

The product may be operated only by trained and authorized personnel under observance of all safety.

Only if used according to the specifications of these operating and installation instructions for the safe and proper use and safe operation of the product are guaranteed.

Intended use includes the observance and compliance with all safety instructions with regards to this operating manual and all applicable regulations, and professional associations of applicable laws for environmental protection. Intended use includes the observance of prescribed operating rules in these operating and installation instructions.

### 2.3 Foreseeable misuse

A use which deviates from the intended use stated by the manufacturer, **elero** GmbH Antriebstechnik (see "Manufacturer's Address"), is deemed as foreseeable misuse.

## 2.4 Warranty and liability

Principally, the General Terms and Conditions of the manufacturer, **elero** GmbH Antriebstechnik (see "Manufacturer's Address"), apply. The terms and conditions are part of the sales documents and handed over to the operator upon delivery. Liability claims for personal or material damages are excluded when they can be attributed to one or more of the following causes:

- Opening of the product by the customer
- Unintended use of the product
- Improper installation, commissioning, or operation of the product
- Structural modifications to the product without the written consent of the manufacturer
- Operation of the product with improperly installed connections, defective safety devices or improperly installed safeguards
- Non-observance of the safety provisions and instructions of these Operating Instructions
- Non-compliance with the technical data

## 2.5 Customer service of the manufacturer

The product should only be repaired by the manufacturer in case of a failure. The address for sending to customer service, see chapter "Manufacturer's Address".

If you have not purchased the product directly from **elero**, please contact the supplier of the product.

## 3 Safety

### 3.1 General safety instructions

The general safety notes when using tubular drives can be found in the leaflet "Instructions on safety" that is enclosed with each drive"(leaflet item no. 13 820.0001). These operating instructions contain all the safety instructions that must be observed in order prevent and eliminate hazards in the handling of the product in the individual life cycles. The safe operation of the product can only be ensured when all given safety instructions are observed.

### 3.2 Layout of the safety guidelines

The safety instructions in this document are identified by hazard signs and safety symbols and are designed according to the SAFE principle. They contain information on the nature and source of the danger of possible consequences and to prevent the danger.

The following table defines the representation and description of hazard levels with possible personal injury, as used in this manual.




Symbol	Signal word	Meaning
	DANGER	Warns before an accident, which will result if instructions are not followed, which can lead to life-threatening, irreversible injury or death.
	WARNING	Warns before an accident, which can happen if the instructions are not followed, which can lead to serious, possibly fatal, irreversible injury or death.
	CAUTION	Warns before an accident, which can happen if the instructions are not followed, which may lead to minor reversible injury.

Fig. 1 Notation of personal injury

The following table describes the icons used in these operating instructions that are used for imaging of the dangerous situation in connection with the symbol of the threat level.



Symbol	Meaning
	Danger of electric voltage, electric shock: This symbol indicates a risk of electric shock.
	Danger of crushing and striking dead of persons: This symbol indicates dangers where the entire body or individual body parts can be crushed or injured.

Fig. 2 Notation-specific hazard

The following table defines the representation used in the operating instructions and description of situations where damage can occur to the product or refers to important facts, conditions, tips and information.




Symbol	Signal word	Meaning
	NOTE	This symbol warns of a possible property damage.
	IMPORTANT	This symbol points out important facts and conditions as well as to additional information in these operating and installation instructions. It also refers to certain statements that give additional information or help you perform a task easily.
		Symbol for earthing in protection class I (protective ground system)

Fig. 3 Notation of property damage as well as additional information

The following example represents the basic structure of a safety warning:

#### SIGNAL WORD

Type and source of danger

Explanation of the type and source of the danger

► Measures to prevent the danger.

### 4 Product description

The SunTop/Z M RH is an electromechanic tubular motor drive. It performs parallel axial movements.

- SunTop/Z M RH with coilable round head (RH) for ZIP systems.
- Commissioning of the SunTop/Z RH with **elero** assembly cable for setting different functions.
- Venetian blind with free ride (torque deactivation)
- Optional relief function for the Venetian blind (Venetian blind protection).
- When moving up and down: Block recognition with relief
- When moving down: Obstacle recognition with relief drive, repetition of the drive, when recognising another obstacle, run to the upper end position.  
The prerequisite for obstacle recognition is an uninterrupted run from end position to end position.
- The device marking (rating plate) is on the outside of the drive housing.

#### 4.1 Scope of supply

- Drive with pluggable connection line

#### 4.2 Accessories

- Connection and assembly cables
- Drive adapters
- Motor bearings
- ProLine controllers
- Sensors
- Radio receivers

### 5 Assembly

#### **WARNING**

Danger of injury from incorrect assembly  
Important safety instructions.

- ▶ Observe all assembly instructions, since incorrect assembly may cause severe injury.

#### **CAUTION**

Personal injury from hot surfaces.

Drive heats up during operation, the drive housing can be hot. Possible burning of the skin.

- ▶ Wear personal protective equipment (gloves).
- ▶ Activation duration and standby times of the drives must be observed.

Triggered by a possible material errors may occur or impact shock and injury due to a gearbox break, bud break or a clutch defect.

- ▶ Suitable materials are to be used for the construction as well as perform a sampling inspection by double load test according to DIN EN 60335-2-97.

Risk of injury due to impact or shock caused by not properly mounted or latched motor bearings. Hazards caused by insufficient stability or stability and stored energy (gravity).

- ▶ Selection of engine bearing torque specifications.
- ▶ Drive must be backed up with all attached backup devices.
- ▶ Check for proper latching on engine mounts and correct tightening torques.

#### **WARNING**

Danger of injury due to electric current.



Electric shock possible.

- ▶ Electrical work can only be performed by an authorized electrician.

Danger of injury due to electric current.



Hazardous possibly by parts that have become live in the error state.

- ▶ Electrical connection is described in the operating and installation instructions included cable bushing.
- ▶ The drive must be disconnected from its power source during cleaning, maintenance and exchange of parts.

#### **CAUTION**

Risk of injury due to malfunctions due to improper installation.

Drive over-winds and possibly destroys parts of application.

- ▶ For a safe operation, the end positions must be set / programmed.
- ▶ Training program of the manufacturer for specialists.

#### **NOTE**



Loss of power supply, termination of machine parts and other malfunctions.

- ▶ For safe operation, no false mount must be made and the end position settings must be carried out during commissioning.



Damage to the SunTop/Z M RH due to moisture penetration.

- ▶ For devices with protection class IP44, the ends of all cables or connectors must be protected against the ingress of moisture. This measure must be implemented immediately after removal of the SunTop/Z M RH from the original packaging.
- ▶ The drive must be installed in a position in which it is not sprinkled.

Damage to the Venetian blind from incorrect assembly

- ▶ Observe the notes in the documents of the manufacturers of Venetian blinds and the accessories used.

#### **Important**



In the delivery status (factory setting), the SunTop/Z M RH in commissioning mode.

- ▶ You have to set the end positions (see chapter 5.6).

## 5.1 Mechanical fastening

### Important preliminary consideration:

The working space around the built-in drive is usually very small. Therefore, before the mechanical installation provide an overview of the implementation of the electrical connection (see Section 5.2) and make any necessary changes right away.

Before the drive is installed, all cables that are not required and all facilities that are not needed for operation with a power drive are to be disabled.

### NOTE



Damage to the electrical wiring by squeezing or tensile loading.

- ▶ Route all electrical cables so that they are not subjected to crushing or tensile load.
- ▶ Note the bending radius of the cables (at least 50 mm).
- ▶ Lay the connection cable in a loop downwards to prevent water running into the drive.



Damage to the drive by the action of impact forces.

- ▶ Insert the drive into the shaft, never thrust the drive into the shaft or smash onto the drive!
- ▶ Never allow the drive to fall!



Damage or destruction of the drive by drilling.

- ▶ Never drill into the drive!

### Important



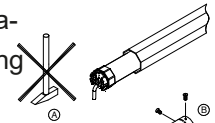
Attach the SunTop/Z M RH only at the appropriate fasteners.

Permanently installed control devices shall be clearly displayed.

- The curtain must be fastened to the winding shaft.
- The profile tube must have enough distance to the motor tube.
- Look for an axial clearance (1-2 mm).

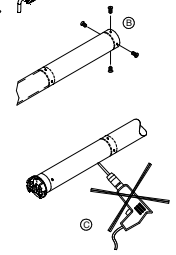
## Installation in profile tubes

- Ⓐ Insert the drive with a suitable adapter and traction ring into the profile tube.



Lay the motor cable protected in order to prevent damage by the driven component.

- Ⓑ Secure the counter bearings against axial displacement, e.g. screw shaft spider or rivet.



Secure drive in axial storage!

- Ⓒ Secure hanging on the shaft!

## 5.2 Electrical connection



### WARNING

Danger to life due to faulty electrical connection.



Electric shock possible.

- ▶ Before commissioning check the correct connection of the PE conductor.

### NOTE



Damage to the SunTop/Z M RH due to defective electrical connection.

- ▶ Before commissioning check the correct connection of the PE conductor.



Damage or destruction of SunTop/Z M RH by the penetration of moisture.

- ▶ For units with protection class IP 44, the customer connection of the cable ends or connector (cable bushing) must also be carried out in accordance with protection class IP 44.



Damage or destruction of SunTop/Z M RH for variants with 120 V AC 1 due to faulty control.

- ▶ Switch with OFF setting (Dead man) for drives must be installed within sight of the SunTop/Z M RH, but away from any moving parts and amounting to about 1.5 m.

### Important

For electric connection no transmission and retransmission of the access line or connector is required as a rule.

**Connection only powered-down condition; for this, power down the drive line.**

- 1 Using a suitable screwdriver, press out the lock of the device connector to the line.
- 2 Disconnect the plug.
- 3 Insert connector until the latch engages.

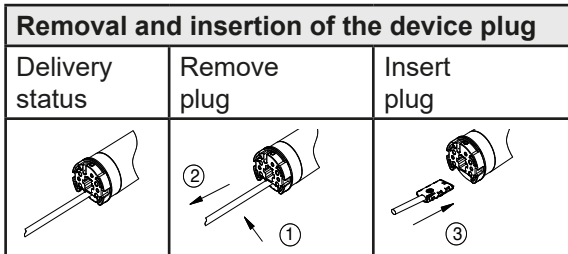


Fig. 4 Removal and insertion of the device plug

**5.3 Connection example SunTop/Z M RH 120 V / 60 Hz**

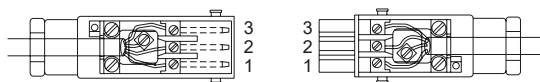
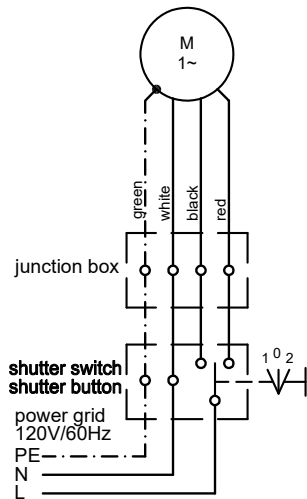


Fig. 5 Circuit diagram SunTop/Z M RH 120 V / 60 Hz and wiring at use with Hirschmann plug STAS 3

**Important**



The motor control must be interlocked in up / down direction. A reversing delay of at least 0.5 seconds must be ensured.

**5.4 Parallel connection**

**Important**



You can connect several parallel SunTop/Z M RH. Note the maximum switching capacity of switching.

**5.5 Commissioning**



**WARNING**

Danger of injury from powered parts moving faster than 150 mm/s (Venetian blind).



Crushing and striking dead of persons possible. When operating the SunTop/Z M RH with a rated rotating speed above 14 (1/min) - depending on diameter of the coiling shaft used - the maximum permitted speed of the driven part according to standard DIN EN 60335-2-97, part 20.101 will be exceeded. This is done on the request and risk of the customer.



Standard DIN EN 60335-2-103, part 20.108, is the basis for impact on an obstacle. It is recommended to limit the forces by using a catching protection system with sensors or by switches with off-presettings.

- ▶ The speed of the driven part must be determined by the operator depending on the diameter of the winding shaft .
- ▶ Force limitation is not person protection.
- ▶ Always observed the product and safety documentation of the Venetian blind supplier.

**Important**



The drive is in the delivery in commissioning mode.

- ▶ You have to set the end positions with the **elero** assembly cable.
- ▶ Connection of the assembly cable is only admissible for commissioning of the drive and the setting processes.

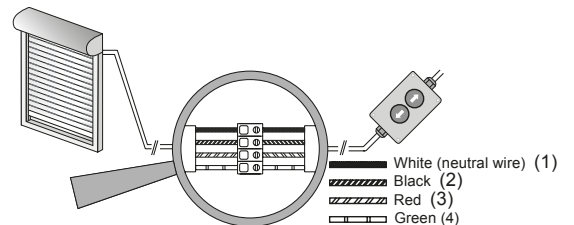


Fig. 6 Connection for cable assembly

- ▶ Switch on mains.
- ▶ You can now set the end positions with the **elero** assembly cable.

**5.6 Setting the end positions and the relief**

**Important preliminary consideration:**

Decide on a specific relief function before setting the end positions (different combination options according to the following statements). This will save unnecessary setting effort! Press the travel key until the drive signals the transition into the setting mode, by a short automatic stop. You can now program the end positions. After setting the two end positions, the setting mode is completed.

**5.6.1 Relief function for the end position(s)**

If an end position is set to stop, an additional relief for the Venetian blind can be released.

**Important**

**i** Activation of the relief function (in the versions B to D) takes place in one work step when the end positions are programmed (see chapter 5.6.7 to chapter 5.6.9)! For details, follow the next subchapters.

**5.6.2 Relief function at the upper stop**

For version B (see chapter 5.6.6): Activate relief function at the upper stop.	
1	Push and hold the <b>UP</b> button ▲ from instruction ① (chapter 5.6.6) and actuate the <b>DOWN</b> button ▼ with the assembly cable (at the same time). Keep both buttons pushed until the Venetian blind stops.
The relief function at the upper stop is activated.	

**Important**

**i** The Venetian blind is adjusted only after a complete and uninterrupted access and exit to the blind.

It does not serve as person protection.

**5.6.3 Changing / Deleting the limit positions and deleting the discharge function**

A change or deletion of a single end position is not possible. This is always done in pairs (upper and lower end position simultaneously).

By the deletion of the end positions and the adjustment of the optional discharge function is lost.

Changing / Deleting the end positions	
1	Restore voltage supply after mains interruption.

Changing / Deleting the end positions	
2	From a middle Venetian blind position with the assembly cable, push and hold both direction buttons (▲ and ▼) at the same time until the drive briefly moves up and down.
The deletion of the setting of end position is completed. The end positions can be programmed again.	

**5.6.4 Two variants of end position settings**

Two different combinations of end position settings are possible. They must be selected sensibly according to the technical requirements of the Venetian blind.

End position settings	
<b>A</b>	Upper and lower end position freely adjustable
<b>B</b>	Fixed upper limit stop / lower end position freely adjustable

Fig. 7 Versions of the end position setting of the SunTop/Z MRH

**5.6.5 Variant A:**

**Upper and lower end position freely adjustable**

Variant A: Upper and lower end position freely adjustable	
①	From a middle Venetian blind position with the assembly cable, push the <b>UP</b> button ▲ until the Venetian blind has reached the desired end position. The drive starts, stops briefly and then moves on (while the UP button ▲ is pushed). Correction is possible with the buttons ▲ and ▼.
②	Press the <b>DOWN</b> button ▼ until the drive stops automatically. The upper end position has been set.
③	Press the <b>DOWN</b> button ▼ again until the Venetian blind has reached the desired lower end stop. The drive starts, stops briefly and then moves on (while the DOWN button ▼ is pushed). Correction is possible with the buttons ▲ and ▼.
④	Press the <b>UP</b> button ▲ until the drive stops automatically. The lower end position has been set.
Setting of the end positions variant A is now complete.	

Fig. 8 End position setting Variant A:

**5.6.6 Variant B: Fixed upper limit stop / lower end position freely adjustable**

Variant B: Fixed upper limit stop / lower end position freely adjustable

- ① From a middle Venetian blind position with the assembly cable, push the **UP** button ▲ until the Venetian blind has reached the desired end position (run to the upper stop).  
The drive starts, stops briefly and then moves on (while the UP button ▲ is pushed).  
The drive switches off automatically when the upper limit stop is reached.
- ② Press the **DOWN** button ▼ until the drive stops automatically.  
The upper end position has been set.  
**Optional:** Activation of the relief function for the upper stop; see chapter 5.6.2
- ③ Press the **DOWN** button ▼ again until the Venetian blind has reached the desired lower end stop.  
The drive starts, stops briefly and then moves on (while the button is pushed).  
Correction is possible with the buttons ▲ and ▼ .
- ④ Press the **UP** button ▲ until the drive stops automatically.

Setting of the end positions variant B is now complete.

Fig. 9 End position setting Variant B:

**6 Troubleshooting**

Problem / Error	Possible cause	Cure Remedy
• Drive stops during travel	• End positions are not set • Drive is in setting mode	• Set end positions
• Drive stops after a short time	• End position programmed • Sluggish shutter	• Set second end position • Check smooth running of the Venetian blind
• Drive runs only in one direction	• Connection error	• Check connection
• Drive not responding	• No mains voltage • Temperature limiter has tripped	• Check mains voltage • Allow drive to cool

Problem / Error	Possible cause	Cure Remedy
• Drive does not learn any end positions	• Random travel  • Travel to end position or limit stop too short	• Delete end positions Reset end positions  • Drive must run, stop briefly and run on (while a button is pushed at the assembly cable).

Fig. 10 Troubleshooting for the SunTop/Z M RH

**7 Repair**

The SunTop/Z M RH is maintenance-free.

**NOTE**

The blind protection is only possible with systems in perfect mechanical order. Wear and material fatigue can impair the function.

- ▶ The system should be checked at regular intervals for wear or damage.

**8 Repair**

If you have any questions, please refer to your specialised company. Please always state the following information:

- Item number and item designation on the nameplate
- Error type
- Previous and unusual events
- Surrounding circumstances
- Own assumption

**9 Manufacturer's address**

<p><b>elero GmbH</b> Antriebstechnik Maybachstr. 30 73278 Schlierbach Deutschland / Germany</p>	<p>Phone: +49 7021 9539-0 Fax: +49 7021 9539-212 info.elero@niceforyou.com www.elero.com</p>
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Please visit our website if you require a contact outside Germany.

**10 Disassembly and disposal**

Dispose of the packaging according to current regulations.

Dispose the product after previous use in accordance with applicable regulations.



### Environmental information

No unnecessary packaging was used. The packaging can be easily divided into three material types: Cardboard (box), Styrofoam (padding) and polyethylene (bag, foam material protective foil).

The device is made up of materials that can be reused if it is disassembled by a specialist operation. Please observe the local provisions on disposal of packaging material and old devices. Always expect additional danger that does not occur in operation during disassembly.

### **WARNING**


Danger of injury due to electric current.

Electric shock possible.

- ▶ Physically disconnect power supply lines and discharge charged energy storage. Wait for at least 5 minutes after deactivation for the motor to cool down and the capacitors to lose their voltage.
- ▶ Use suitable, tested and stable climbing aids when performing disassembly work above body height.
- ▶ All work at the electrical system must only be performed by the staff described in the chapter "Safety instructions for electrical installation".

### Scrapping

During the scrapping of the product, the international, national and regional-specific laws and regulations are to be complied with.

 Please make sure to consider material recyclability, ease of dismantling, and separability of materials and components as well as environmental and health hazards during recycling and disposal.

### **CAUTION**

Environmental damage at incorrect disposal

- ▶ Electronic scrap and electronic components are subject to the hazardous waste rules and must only be disposed of by approved specialist operation.
- ▶ Groups of materials such as plastics and metals of various kinds are sorted for recycling and disposal process.

### Dispose electrical and electronic components

Disposal and recycling of electric and electronic components must comply with the applicable national laws and regulations.

## 11 Notes on the declaration of conformity

elero GmbH hereby declares that this product corresponds to the applicable directives. The complete declaration of conformity can be found under [www.elero.com](http://www.elero.com).

### 11.1 US: Addendum to the manual UL approval

This device complies with Part 15 of the FCC Rules and with RSS-210 of Industry Canada. Operation is subject to the following two conditions:

- (1) this device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation. Any changes or modifications made to this device without the express permission of the manufacturer may void the user's authority to operate this device.

### 11.2 CA: Addendum au manuel Homologation UL

Le présent appareil est conforme aux CNR-210 (et FCC part 15) d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes :

- (1) l'appareil ne doit pas produire de brouillage, et
- (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

## 12 Technical data and dimensions

The indicated technical data are subject to tolerances (according to the respective applicable standards).

Build / Type	SunTop/Z M2/108 RH	SunTop/Z M4/70 RH	SunTop/Z M7/28 RH	SunTop/Z M10/28 RH	SunTop/Z M10/17 RH	SunTop/Z M16/17 RH	SunTop/Z M30/17 RH	SunTop/Z M36/12 RH
Rated voltage (V)	1 ~ 120	1 ~ 120	1 ~ 120	1 ~ 120	1 ~ 120	1 ~ 120	1 ~ 120	1 ~ 120
Rated frequency (Hz)	60	60	60	60	60	60	60	60
Noiseless soft brake	•	•	•	•	•	-	•	-
High-speed door	•	-	•	-	•	•	-	•
Rated torque (Nm)	2	4	7	10	10	18	30	36
Rated speed (1/min)	108	70	28	28	17	17	17	12
Rated current (A)	1,75	1,75	1,2	1,75	1,2	1,75	1,75	1,75
Rated power consumption (W)	210	210	144	210	144	210	210	210
Shaft diameter (mm)	50	50	50	50	50	50	50	50
Protection class (IP)	44	44	44	44	44	44	44	44
Limit switch range (revolutions)	40	40	40	40	40	40	40	40
Operating duration (min S2)	4	4	5	4	4	4	4	5
Length C (mm)	527	527	486	476	479	538	518	518
Length D (mm)	505	505	469	459	462	521	501	501
Length E (mm) (RH)	12	12	12	12	12	12	12	12
Weight (kg)	1.7	1.7	2.2	1.9	1.9	2.2	2.2	2.2
Thermal operating condition (°C)	-20 to 60	-20 to 60	-20 to 60	-20 to 60	-20 to 60	-20 to 60	-20 to 60	-20 to 60
Emission sound pressure level (dBA)	< 70	< 70	< 70	< 70	< 70	< 70	< 70	< 70
Protection class I	•	•	•	•	•	•	•	•
UL-mark	•	•	•	•	•	•	•	•
Parts number version RH	38 653 0011	38 673 0011	38 685 0011	38 695 0011	38 723 0011	38 733.0011	38 753.0011	38 763.0011

### 12.1 SunTop/Z M RH

- ▶ Attachment RH with 2 recessed-head screws  
3.5x12 Remform F Torx 15 with 2 Nm each
- ▶ Attachment RH with 4 PT screws  
K5.0x16 torx 20 with 5.5 Nm each

