
Safety Instructions:

Please observe the following safety which is emphasised by special symbols:

Caution:	Danger to persons due to electricity.
Warning:	Non-observance leads to destruction. Danger to material due to incorrect handling.
Attention:	Danger to persons due to risks arising from the operation of the equipment. Danger of crushing / trapping.

Please observe the following for assembly and operation:

The window closes automatically. When opening and closing, the drive unit is stopped by the power cut-off. The corresponding pressure force is listed in the technical data. Take care - the pressure force is high enough to crush your fingers. During assembly and operation, do not interfere with the window gap or the travelling drive! Danger of crushing/trapping!

Operating instructions:

For professional assembly, installation and appropriate maintenance by trained, qualified and safety-conscious electricians and/or skilled staff with knowledge of electrical equipment installation. Read and observe the information contained in these operating instructions and respect the order of procedure stated therein. Please keep these operating instructions for future reference and maintenance. Reliable operation and the prevention of damage and risks are only granted if the equipment is assembled carefully and the settings are carried out according to these instructions and to the operating instructions of the drives.

Please observe the exact terminal assignment, the minimum and maximum power ratings (see technical data) and the installation instructions.

Application range:

Exclusively for the automatic opening and closing of the stated types of windows. For further application, please contact the manufacturer. It would be beyond the scope of these safety instructions to list all the valid regulations and guidelines. Always make sure that your system corresponds to the valid regulations.

Maintenance works:

These winders are virtually maintenance free. To ensure safety and optimal performance it is recommended that the following steps be taken at least once per year:

1. Check the chain for any unusual wear and tear.
2. Check all external power connections.
3. Free the equipment from any contamination.
4. Check the tightness of fixing and clamping screws.
5. Test the equipment by trial run.

The gear system is maintenance free. Defective equipment must only be repaired by the manufacturer. Only original spare parts are to be used. The readiness for operation has to be checked regularly. For this purpose a service contract is recommended.

Manufacturer's declaration:

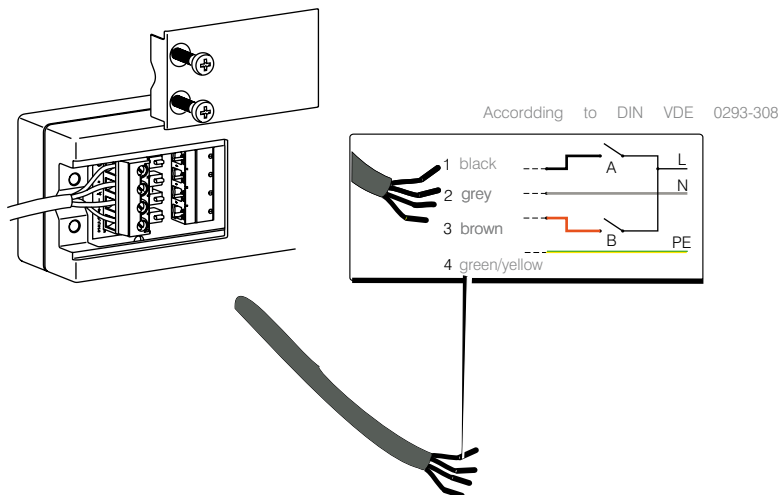
The equipment has been manufactured and tested according to the European regulations. A corresponding manufacturer's declaration has been submitted.

Electric Installation



Caution: Installation by qualified electricians to avoid damages on the window motor.

Attention: 230-240 AC/50Hz alternating current! Other voltage will damage motor.



Note: The 4-wire connection is pre-mounted.
 Connect black cable **1** to OPEN wall switch.
 Connect brown cable **3** to CLOSE wall switch.
 Connect grey cable **2** to neutral conductor.
 Connect green-yellow cable **4** to earth.
 Ensure sufficient room to allow testing - check functionality.
 Close switch/ junction box.

Attention: The installation requires a three way switch with OPEN, NEUTRAL, CLOSE (no two way on-off-switch), as the motor requires a delay in between opening and closing. Non compliance may destroy the actuator and exclude the unit from any warranty!

