

### ELECTRIC MOTOR DRIVE DESCRIPTION

RoolHan – axial tubular motor for roller blinds and sun-protective folding screens.

- Work intensity – 20 %
- Continuous work time – 4 minutes (until triggering the thermal protection and until drive is temporary stopping)

Torque and other parameters of every model is indicated on the label of motor. Check technical characteristics conformity onto the roller blind weight. RoolHan motor kit includes two adapters (for connection with shaft) and mounting plate. For motor handling one should use bipolar switches or additional control units.

Accessories sheet is in the RoolHan catalogue.

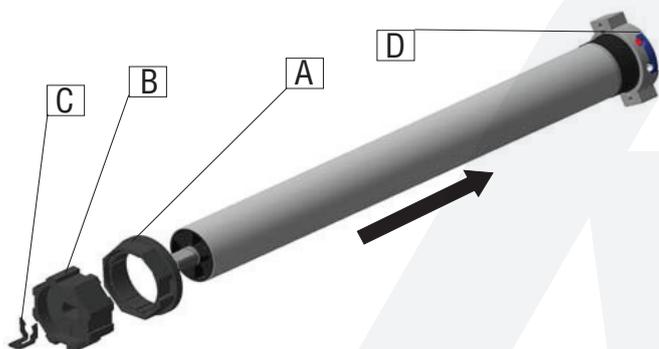


Fig.1

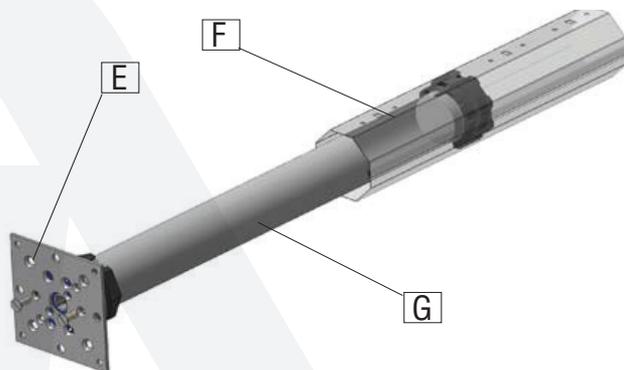


Fig.2

### MOTOR INSTALLATION (FIG.1,2)

ATTENTION! Before installation remove package from the motor.

ATTENTION! All work, including installation, connection, settings, inspection and maintenance of the product, must only be performed by qualified personnel who have been trained at an authorized center DoorHan company in full compliance with the requirements of current safety standards.

- Install end switch adapter (A) and external adapter (B), check connection between adapters and shaft.

WARNING: for interior adapter installation on the motor use only manual force, do not use any other instruments.

- Snap the clip (C) on the motor external shaft
- Anchor the mounting plate (E) on the electric motor, then on the case top cover for the shaft (F) to be horizontal.
- Install the motor RollHan (G) into the shaft (F) until bumping into the end switch adapter (A).

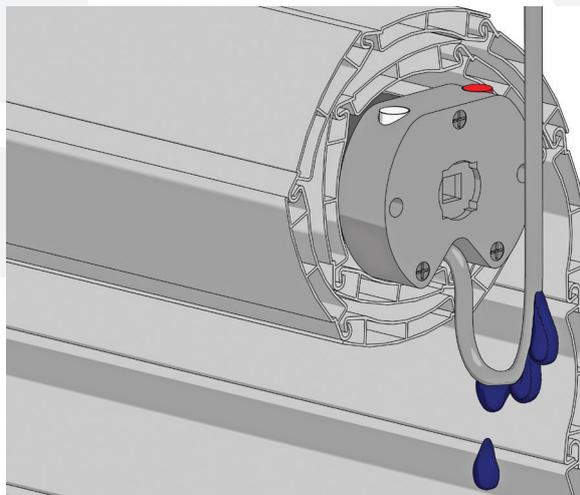
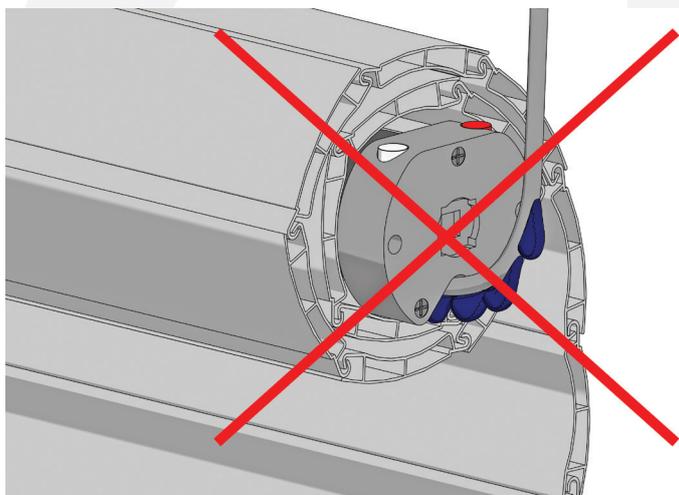
WARNING: Do not knock onto the motor stand (D) while installing it into the shaft.

- Install motor stand (D) on the fasteners and then install spring-inertial mechanism on the opposite edge of the shaft.

WARNING: Long fixing screws for rings fastening on the shaft can touch the motor case. Use short fixing screws which will not touch motor case inside the shaft (fig.2). Screws must not come into the shaft more than 4 mm.

ATTENTION! If installing on the height less than 2,5 meters all moving motor elements should be protected from the foreign objects hitting.

ATTENTION! Wrong installation can lead to human injuring or damage of objects.



Cable should be installed with bent as on the figures.



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### ELECTRICAL CONNECTIONS (FIG.3)

Check supply voltage presence 220 V, 50 Hz.

ATTENTION! Supply voltage should be provided through the unit protecting from the overloading and the short circuit. RollHan motor hooking up should be provided according to the scheme (fig.3) by qualified staff with safety regulations compliance.

ATTENTION! In case of supply cable damage it can be replaced only by a producer, its staff personal or personal with corresponding qualification.

WARNING: In case the motor is rotating in wrong direction (that is roller

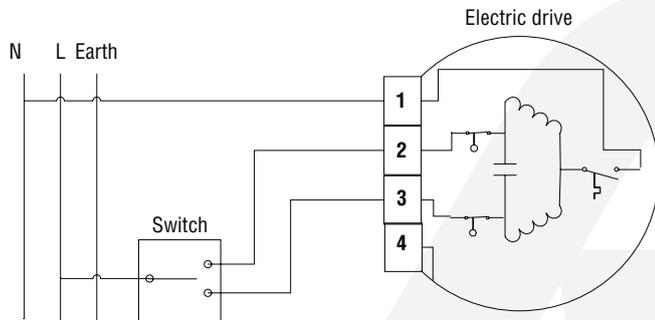


Fig.3. Switch connection

blind is closing when pressing the open button) the position of black and brown cables should be interchanged with each other.

ATTENTION! Do not connect more than one motor to the one switcher.

ATTENTION! While providing technical checking or roller blind cleaning switch off electricity supply and do not move the roller blind.

ATTENTION! Motor control switcher should be installed in the open place, far from the moving roller blind elements.

WARNING: Parallel connection of 2 and more motors from one common switcher is not allowed.

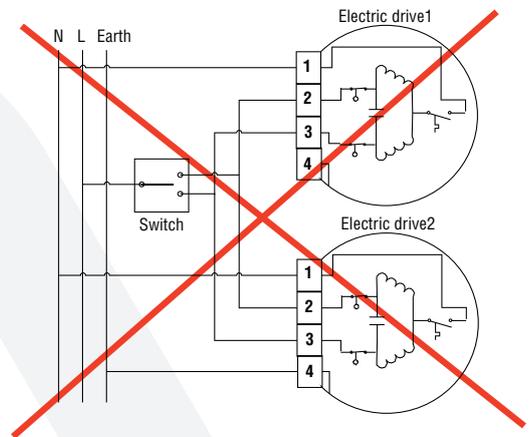


Fig.4. Parallel connection do not allowed

### END SWITCHERS (FIG.5)

Description:

RollHan motor is provided with factory setting of end switchers. It is ensure two turnovers of the output shaft in both directions.

- While rotating screws in anti-clockwise direction (twist off) you increase motor turnovers (increase distance which is covered by the roller blind).
- While rotating screws in clockwise direction (twist on) you decrease motor turnovers (decrease distance which is covered by the roller blind).

ATTENTION! Motor rotating direction are indicating by the pointers 1 and 2 on the end switchers unit of the motor (fig.5).

Pointers 1 and 2 indicate rotating direction which is controlled by every tuning screw. Pointers A and B mark screw rotating direction for increase (+) and decrease (-) turnovers number of output shaft which is controlled by end switcher.

ATTENTION! Described settings sequence of end switchers is valid for both right and left motor installations.

1. After RollHan motor installation and before roller blind connection to the shaft, start RollHan motor on the closing direction until its stopping.

ATTENTION! Check the rotation direction.

2. Continue electricity supplying turn lower screw in anti-clockwise direction (+) for the shaft take the convenient position for roller blind

connection.

3. After shaft connection with roller leaf turn lower screw in clockwise or anti-clockwise direction until you achieve the correct "close" position setting.

4. Open the roller blind until motor stop, then with no stopping electricity supply, rotate upper screw in anti-clockwise direction (+) and set roller blind in correct "open" position.

5. While correcting end switch settings of "open" position, if it is excess slightly put down the roller blind, then rotate upper screw in clockwise direction (-). Then repeat all actions beginning with item 4 until setting the correct "open" position.

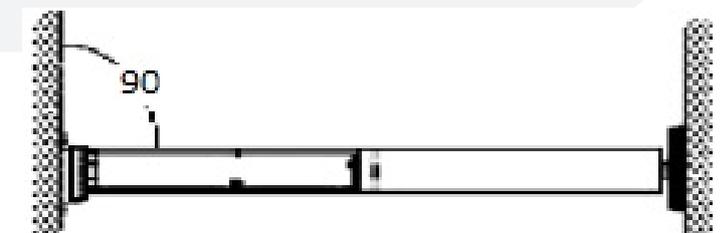


Fig.6.

### MANUAL CONTROL (fig.6)

ATTENTION! Manual control is available only when electricity supply is switched off.

- RollHan motor (with manual control) should be installed only horizontally, that is perpendicular to the mounting plate (fig.6.)
- Manual control is assigned only when electricity supply is switched off (emergency cases).
- Manual control has limited operating life (around 200 cycles of opening-closing)
- For emergency opening the "emergency opening loop" or "emergency opening cardan joint" are used.



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