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- RUBBER PLAY TILES
- BELT CONVEYORS
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- LAWN & BORDER EDGING
- FORCED ACTION MIXERS
- WATER STORAGE CRATES
- RESIN BOUND GRAVEL
- RUBBER GYM MATTING
- GRASS PROTECTION MESHES
- GRASS REINFORCEMENT MESHES
- GROUND REINFORCEMENT & GRAVEL RETENTION GRID
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SoRoTo® HARD WORKING SINCE 1986

Operating Manual

Belt Conveyor

	2.0M	3.3M	4.5M	6.0M	8.0M
Motor Voltage	110v				400v
Output	0.5kW			0.55kW	
Belt Speed	32cm/sec				
Length	220cm	330cm	450cm	600cm	800cm
Weight	45kg	65kg	85kg	100kg	120kg
Max Belt Loading (End-to-End)	150kg	247.5kg	337.5kg	450kg	600kg
Belt Material	PVC				
Belt Width	34cm				
Frame Material	Aluminium				
Frame Width	48cm				
Frame Height	23cm				
Max. Inclination	30/45°				

KEY FACTS

- Moves up to 322 tonnes per day
- 110/400v motor variants
- Forward and reverse operation
- Two-wheel, snap-on/snap-off undercarriage
- PVC/Aluminium side battens
- Protective motor switch & thermal cut-off
- PVC belt with 10mm high carriers
- Optional belts with 30mm carriers, without carriers or high tensile
- Modular design means it can be as short or long as needed
- Incline can be adjusted

APPLICATIONS

BRICKS/BLOCKS
Save on labour costs and increase productivity

RUBBLE/DEBRIS
Remove mixed rubble and debris more safely thanks to reduced handling

HAY/STRAW
Moving this cumbersome material can be done simply with a conveyor

GRAVELS
Easily transport loose or bagged aggregates and gravels

BAGGED MATERIALS
Such as cement or plaster can be securely moved around site

WET CONCRETE
Even large amounts of wet concrete can be conveyed across sites easily

Content:

This manual applies to the SoRoTo Belt Conveyors:
2.0m, 3.3m, 4.5m, 6.0m & 8.0m

Usage, Before Use & Product Description:

USAGE

The SoRoTo Belt Conveyors are available in 5 different lengths and are suitable for moving a wide range of building materials. A single conveyor is able to move up to 322 tonnes per day.

BEFORE USE

Please read the safety regulations on page 3 & 4 before use and always remember to check the PVC belt for wear, tear and breakage before use.

Please take note of the following symbols used throughout the manual:

Risk of injuries or damage to the machine, if the instructions are not followed

Risk of electrical shock

PRODUCT DESCRIPTION

The SoRoTo Belt Conveyor is delivered with the following equipment as standard:

- Aluminium feeder,
- PVC belt with 10mm carriers,
- Undercarriage with two wheels - easy to click on and off.

Additional equipment can be ordered:

- Large aluminium feeder for loading with wheelbarrow,
- PVC belts without carriers - for transporting wet mortar or concrete etc.
- PVC belts with 30mm carriers - for transporting stony materials
- Reinforced PVC belts with a higher tensile strength
- Motor designed for operating in extreme low temperatures
- Truck pockets

Technical Data:

SoRoTo Belt Conveyor	2.0m	3.3m	4.5m	6.0m	8.0m
Motor	110v/0.50kW	110v/0.50kW	110v/0.50kW	110v/0.55kW	400v/0.55kW
Belt Speed	32cm/sec.	32cm/sec.	32cm/sec.	32cm/sec.	32cm/sec.
Length	2.2m	3.3m	4.5m	6.2m	8.1m
Conveyor Width	48cm	48cm	48cm	48cm	48cm
PVC Belt Width	35cm	35cm	35cm	35cm	35cm
Alu. Frame Height	23cm	23cm	23cm	23cm	23cm
Feeder Height	39cm	39cm	39cm	39cm	39cm
Max Lifting Height*	30°	30°	30°	30°	30°
Weight incl. undercarriage	45kg	65kg	85kg	100kg	120kg

*The max lifting height depends on the choice of material and the number of kilos to be moved.

SAFETY REGULATIONS

Please keep this manual in a safe place, so the information we have provided is always accessible. If the SoRoTo Belt Conveyor is handed over to another person, please ensure the manual is included.

This manual can be downloaded again from our website:
www.gclproducts.co.uk

The manufacturer is not liable for any legal claims in case of injuries or damages
to the machine, which has occurred because of failure to follow safety regulations.

Safe operation of the machine is only possible, when this manual has been read thoroughly. Please follow the instructions at all times.

To avoid electrical shock and damages:

• Always use the correct current. The power supply must correspond with the information described within this manual (see technical data).

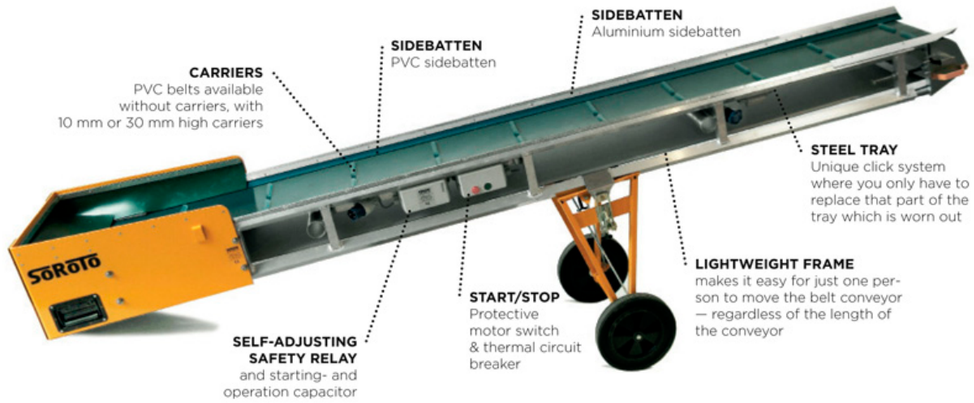
• Always check the cable and plug before use. If the cable is damaged it must to be replaced by either the manufacturer or an authorized electrician.

• Always ensure the belt conveyor is turned off before the power cable is connected to the power supply.

• Always ensure that the emergency stop button works before using the belt conveyor.

GENERAL SAFETY REGULATIONS

• Always keep children and bystanders at a safe distance whilst operating the machine.
• The belt conveyor can only be used by trained personnel.
• The belt conveyor can only be used for moving building materials.
• A maximum of three belt conveyors can be interconnected via the supplied power outlet.
• Never stop a belt conveyor before all of the materials have been unloaded.



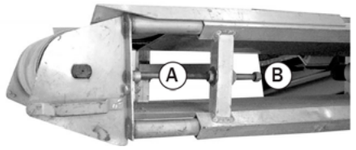
STARTING AND USING THE BELT CONVEYOR

Make sure the data described on the rate plate correspond with the accessible power supply. The SoRoTo Belt Conveyor may be connected to 220V/240V.

Starting and stopping the belt conveyor

The belt conveyor is operated via a mounted motor switch with on/off. Furthermore the motor switch is equipped with an O-discharger, which switches off the machine in case of power failure.

The emergency stop is mounted on the opposite side of the motor switch. Activating the emergency stop is without risk to personnel or the belt conveyor. After an emergency stop, the belt conveyor must to be restarted manually.



When interconnecting several belt conveyors, always ensure that no crushing hazard is present. You must also ensure that there is a minimum of 120mm between two belt conveyors. Always remove the plug from your power supply before mounting and detaching the PVC belt.

Mounting of a new PVC belt:

1. Remove the feeder.
2. Detach the PVC belt by loosening the locknut (A).
3. Hold the nut (B) while the threaded rod is turned anti-clockwise.
4. Push the motor and the roller fittings back with a rubber hammer.
5. Place the frame on its side with the power box facing upwards.
6. Remove the under sledges.
7. Remove the PVC belt.
8. Before mounting the new PVC belt, clean the steel tray and side battens.
9. Mount the new PVC belt.
10. Remount the under sledges before laying the belt conveyor down.

Adjustment of PVC belt:

1. Before adjusting the PVC belt, place the belt conveyor on chocks to avoid the frame from getting twisted.
2. Tighten the PVC belt by holding nut B, whilst turning the threaded rod clockwise. Tighten the PVC belt as much as possible, so it cannot move on the back roller when fully loaded.
3. Adjust the PVC belt so it runs down the middle of the back roller. Adjust this by turning the threaded rod in the roller end.
4. Tighten the locknuts in both ends of the belt conveyor.
5. Turn on the belt conveyor to ensure the PVC belt runs correctly. The PVC belt must run straight in the steel tray.
6. If the PVC belt runs askew, using a ruler ensure the motor fittings in both ends are the same distance away from the frame.
7. Refine the adjustment of the PVC belt in the roller end of the belt conveyor. Just so the PVC belt is loosened a little in both ends of the steel tray.
8. If the PVC belt runs askew in the end where the feeder is located, adjust one of the screws carefully. Just half a turn should suffice. After the adjustment, allow the belt conveyor to run for at least two minutes, to see if the PVC belt is now aligned.
9. Before remounting the feeder, ensure the PVC belt runs in a straight line at the back roller and at the motor roller.

After ajdustments, maintenance and cleaning, allow your belt conveyor to run at least 30 minutes before putting it back to work.

MAINTENANCE AND CLEANING

For a longer durability, always check the SoRoTo belt conveyor before and after use.

Check the following:

• The motor roller and the back roller are clean,
• Nothing is stuck at the back roller - stones or other materials, That the PVC belt runs freely and with ease.
• The PVC belt runs in a straight line. Please notice if the PVC belt runs straight in the steel tray. (If it runs askew, please follow the adjustment instructions on the previous page).
• The PVC belt has no visible damages. (Cracks, small holes and damaged carriers must to be repaired before the belt conveyor is used again).
• The PVC belt is located under the side battens.
• That the PVC side battens are intact. The battens must have a width of at least 5cm and must be undamaged. In case of any damages, replace the battens.

When cleaning the belt conveyor NEVER expose the electrical parts to water

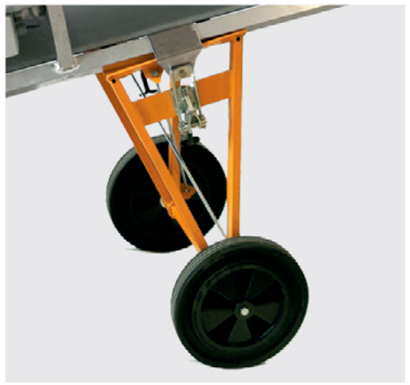
Cleaning:

To ensure a long working life for your Belt Conveyor, please clean the machine frequently. To correctly clean your Belt Conveyor, please follow our instructions:

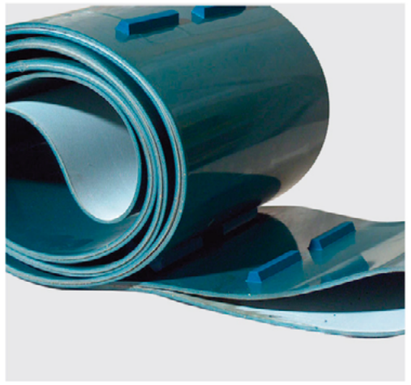
1. Clean the PVC belt – e.g. with a pressure washer.
2. Dismount the feeder and ensure no stones, dirt or other materials are stuck to the back roller or the back scraper. Clean if necessary.
3. Ensure the PVC on the feeder is not worn. Replace if necessary.
4. Inspect the complete belt conveyor. Remove all foreign objects.
5. If necessary dismount and clean the PVC belt (see point 1-4).
6. After cleaning the belt conveyor, remount the feeder. Now your belt conveyor is ready for use again.

INCLUDING
Standard feeder

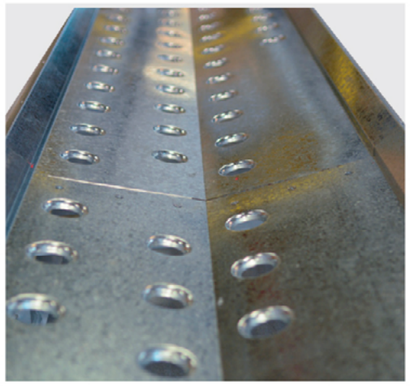
INCLUDING
Undercarriage with two wheels and click on/off



INCLUDING
PVC belt with 10 mm high carriers



INCLUDING
Self-cleaning modular plates = low maintenance



OPTIONAL
Motors for extremely cold temperatures

OPTIONAL
Extra wide feeder for wheelbarrow

MOVING THE BELT CONVEYOR AROUND

When moving the belt conveyor from one place to another, attach the undercarriage to the frame in the middle before lifting the belt conveyor from the end. Ensure the belt conveyor is balanced, so it can be easily moved around.

ENVIRONMENTAL PROTECTION

- Worn-out PVC belts must be returned to the collection facilities provided for recycling or destruction.
- Environmentally hazardous waste must always be returned to the collection facilities provided for recycling or destruction.
- Please take care of the environment.

TECHNICAL SUPPORT & SALES

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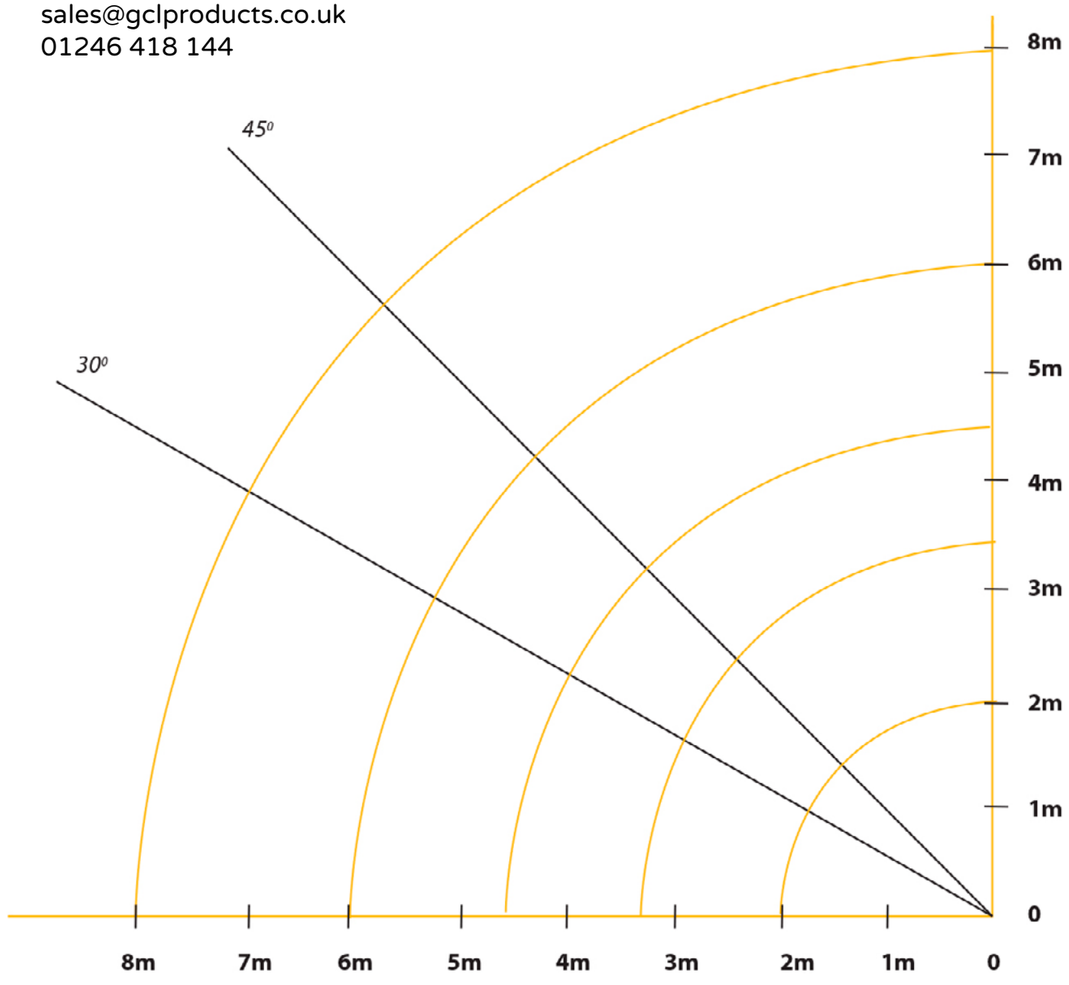

BELT CONVEYORS, **110V, 0.50KW, 2.0-4.5 M**

CE

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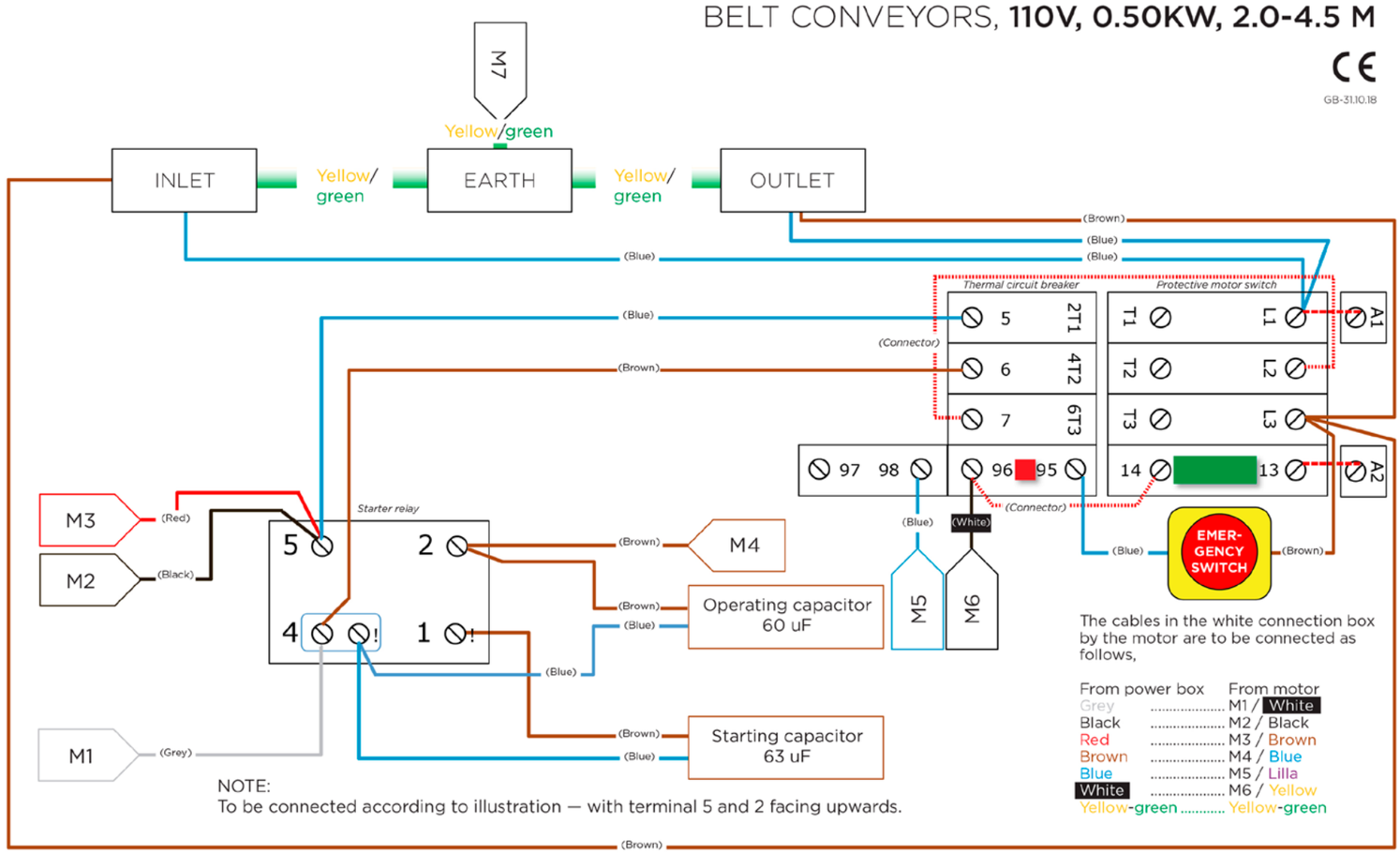

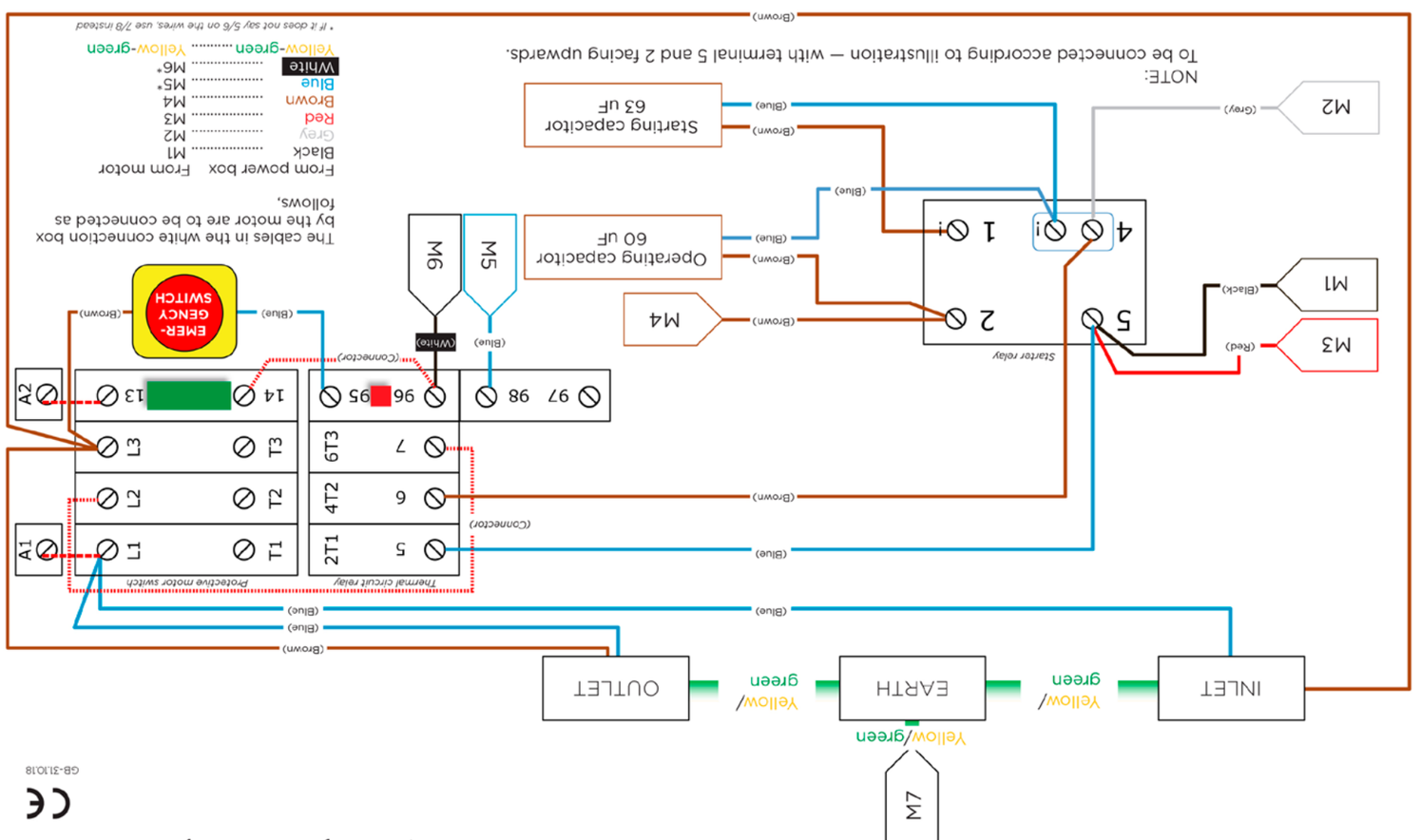

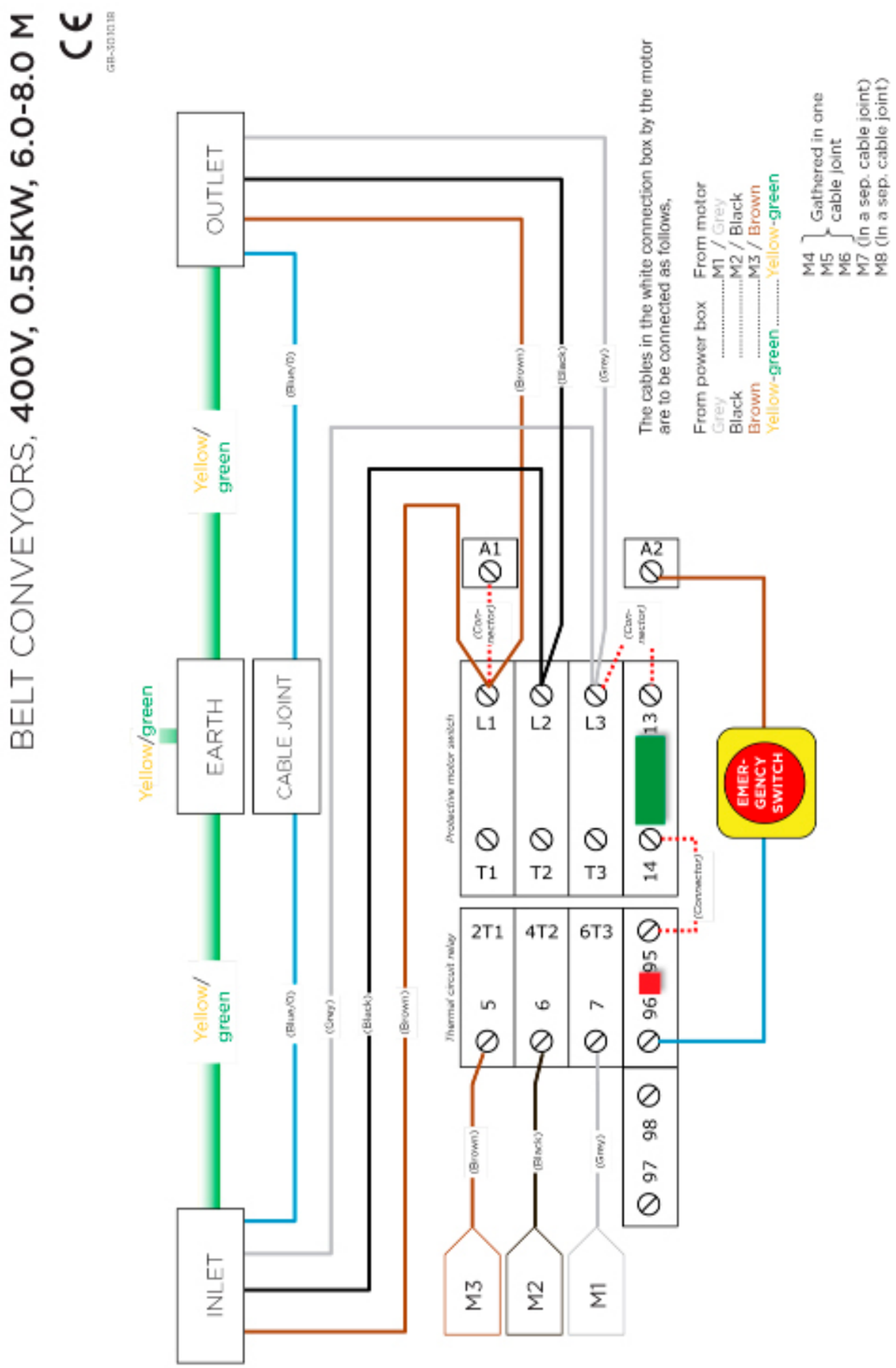

EU DECLARATION OF CONFORMITY

ANNEX II.A OF THE MACHINERY DIRECTIVE

Manufacturer:	SoRoTo A/S
Address:	Fabriksparken 11-13, 2600 Glostrup, DENMARK
Product:	Belt Conveyors
Model:	2.0 M — 3.3 M — 4.5 M — 6.0 M — 8.0 M
Manufactured:	From 2015 and onwards

We hereby declare that the **SoRoTo Belt Conveyors** are manufactured in conformity with the stipulation containted in COUNCIL DIRECTIVE No. 2006/42/EC on the approximation of the laws of member states on machine, including subsequent modifications, with special regard to Annex I of the directive on important safety and health requirements in connection with the design and manufacture of machines.

Furthermore, we declare that the **SoRoTo Belt Conveyors** are manufactured in conformity with the following harmonised standard,

EN 10151

15.03.2017
Glostrup, DENMARK

Hans Terney Rasmussen
CEO

Original

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