

WARPING WINCHES

TB2 P 500

TB3 P 700 - 1000

TB4 1000 - 1500

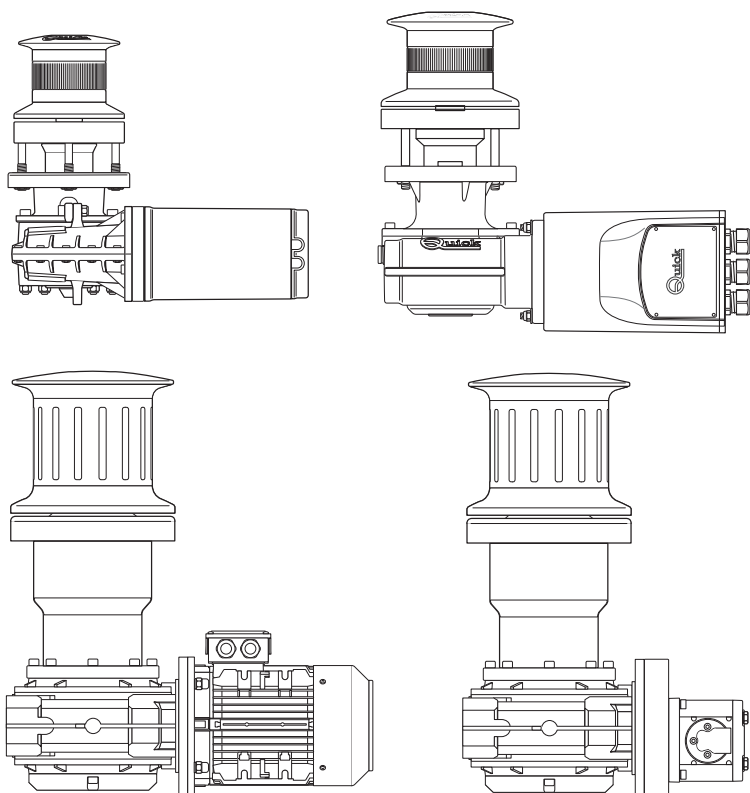
TB5 1700 - 2000 - AC 3000 - HYDRO

TB6 2300 - 3000 - AC 4000 - HYDRO

TB7 3500 - AC 3000 - AC 4000 - HYDRO

TB8 3500 - AC 5500 - AC 7500 - HYDRO

TB9 AC 11KW - HYDRO



*EN - INSTALLATION AND USER'S MANUAL General instructions

*Other languages available by scanning the QR code on the back of this manual or on the label on the product.

IT *Altre lingue disponibili scansionando il codice QR presente sul retro del seguente manuale o sull'etichetta alloggiata sul prodotto.

ES *Otros idiomas disponibles escaneando el código QR en la parte posterior de este manual o en la etiqueta del producto.

FR *Autres langues disponibles en scannant le code QR au dos de ce manuel ou sur l'étiquette du produit.

DE *Andere Sprachen sind durch Scannen des QR-Codes auf der Rückseite dieser Betriebsanleitung oder auf dem Aufkleber am Produkt verfügbar.

PT *Outros idiomas disponíveis, digitalizando o código QR no verso deste manual ou no rótulo do produto.

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Thank you for choosing a **Quick Spa** nautical accessory.

Quick Spa is an international leader in the production and marketing of nautical accessories. The Italian plant designs, engineers and manufactures all the products in the Quick range.

TBSERIES WARPING WINCHES

Nautical accessory for mooring operations.

Thanks to electric or hydraulic motors, TBSeries is the range of winches with mechanical movement.

The parts exposed to the marine environment are made entirely of stainless steel and the compass is made of brass alloy.

The Tumbler series includes gearboxes in technopolymer, anodised aluminium and painted cast iron.

2 - Important information

TBSeries

This manual provides boatyards and nautical equipment installers with instructions on how to assemble the specified TB Quick® and operate it correctly.

READ THIS INSTRUCTION MANUAL CAREFULLY BEFORE USING THE PRODUCT.

IF IN DOUBT, CONTACT YOUR QUICK® DEALER.

Keep the manual in a safe place for future reference. If lost, it can be downloaded from the company website www.quickitaly.com

Quick® reserves the right to modify the technical characteristics of the equipment and the contents of this manual without prior notice. In case of discordance or errors in translation between the translated version and the original text in the Italian language, reference will be made to the Italian text.

2.0 - Abbreviations and symbols

ABBREVIATIONS

TB = Tumbler

EX = Example

P. = Page

SYMBOLS

This manual features Warning and/or Caution symbols that are important for safety.

Please follow the instructions provided.

	Warning symbol for dangerous situations.
	Warning symbol for feet and/or hand crushing hazard (yellow triangle)
	Danger symbol for crushing hands by gears (red circle)
	Danger symbol for crushing hands by chain (red triangle)
	Caution symbol to prevent direct or indirect damage to the product.
	Caution symbol to prevent direct or indirect damage to the installer/end user.

3.0 - General precautions



Quick® warping winches are designed and manufactured for warping operations.

Do not use these products for any other type of operation.

- Quick® shall not be held liable for direct or indirect damage caused by improper use of the product.
- The warping winch is not designed to support loads generated in particular atmospheric conditions (storms).
- Operate the product from a position where it is possible to supervise the work area.
- Always deactivate the warping winch when not being used.
- For improved safety, we recommend installing at least two controls to operate the winch in case one is damaged.
- We recommend the use of Quick® switch as motor safety device.
- The reversing contactor box must be installed in a position protected from any water entry.
- Isolate the warping winch from the electrical system during navigation and secure the rope to a fixed point of the boat.
- This equipment is not intended for use by people (including children) with reduced physical, sensory or mental capabilities. Quick® shall not be held liable for direct or indirect damage caused by improper use of the equipment.

3.1 - Precautions for the installer and PPE



CARRY OUT THE INSTALLATION IN GOOD LIGHTING CONDITIONS.

It is advisable to wear suitable clothing and personal protective equipment (PPE).

All personal protective equipment must comply with the relevant national legislation and must be checked, maintained and used in accordance with the manufacturer's instructions.

PPE for the installer and the routine maintenance technician		
Identification pictogram	Description	Notes
	HELMET	Use of safety helmet to prevent damage caused by suspended loads during work and impact to structures
	SAFETY GLOVES	Use of protective gloves to prevent cuts, perforations or punctures during work operations
	SAFETY SHOES	Use of safety shoes to prevent damage caused by falling materials from above during stabilizer installation operations.
	SAFETY CLOTHING	Use of suitable protective clothing to prevent entanglement with moving and transported parts.

The product is not suitable for installation in potentially explosive environments and/or atmospheres. Installation and subsequent inspection or repair work must only be carried out by qualified personnel.



CARRY OUT INSTALLATION/MAINTENANCE WORK MAKING SURE THAT THE PRODUCT IS DISCONNECTED FROM THE ELECTRICAL SYSTEM.

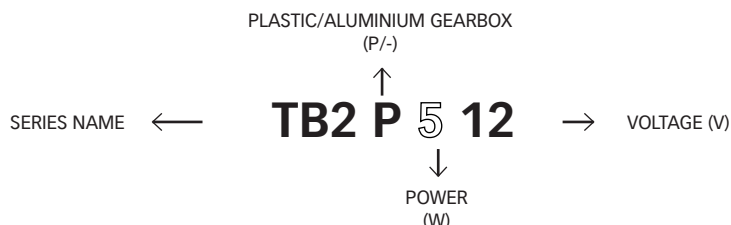
Quick® accepts no responsibility for inadequate connection of users to the electrical/hydraulic system and its inadequate safety.

READ THIS INSTRUCTION MANUAL CAREFULLY BEFORE USING THE PRODUCT. IF IN DOUBT, CONTACT YOUR QUICK® DEALER.



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4.0 - Model code



4.1 - Electric motor TB technical data

MODEL	TB2 P DC		TB3 P DC			
MODEL POWER	500 W		700 W		1000 W	
Motor voltage	12 V	24 V	12 V	24 V	12 V	24 V
Maximum instantaneous pull	660 kg (1455.0 lb)		850 kg (1874 lb)		1000 kg (2205 lb)	
Maximum work load	200 kg (440.9 lb)	220 kg (485.0 lb)	250 kg (551 lb)	300 kg (661 lb)	370 kg (816 lb)	450 kg (992 lb)
Work load	65 kg (143.3 lb)	70 kg (154.3 lb)	80 kg (176 lb)	100 kg (220 lb)	120 kg (265 lb)	150 kg (331 lb)
Current consumption at work load ⁽¹⁾	80 A	40 A	90 A	55 A	140 A	80 A
Maximum recovery speed ⁽²⁾	29 m/min (95.1 ft/min)		21 m/min (67 ft/min)	22 m/min (72 ft/min)	25 m/min (82 ft/min)	27 m/min (88 ft/min)
Recovery speed at work load ⁽²⁾	19 m/min (62.3 ft/min)	21.7 m/min (71.2 ft/min)	12 m/min (39 ft/min)	14 m/min (46 ft/min)	16.5 m/min (54 ft/min)	17.5 m/min (57 ft/min)
Max. noise (-) ⁽⁶⁾	Up to 80 DB					
Minimum motor cable cross section ⁽³⁾	16 mm² (AWG5)	10 mm² (AWG7)	25 mm² (AWG3)	10 mm² (AWG7)	35 mm² (AWG2)	16 mm² (AWG5)
Circuit breaker ⁽⁴⁾	60 A	40 A	50 A	40 A	80 A	50 A
Deck thickness ⁽⁵⁾	25 ÷ 50 mm (31/32" ÷ 1" 31/32 in)					
Weight	9.3 Kg (20 lb)		14.1 kg (31 lb)		15.4 kg (34 lb)	

MODEL	TB4 DC			
MODEL POWER	1000 W		1500 W	
Motor voltage	12 V	24 V	12 V	24 V
Maximum instantaneous pull	1000 kg (2205 lb)		1100 kg (2425 lb)	
Maximum work load	370 kg (816 lb)	450 kg (992 lb)	450 kg (992 lb)	500 kg (1102 lb)
Work load	120 kg (265 lb)	150 kg (331 lb)	150 kg (331 lb)	170 kg (375 lb)
Current consumption at work load ⁽¹⁾	140 A	80 A	155 A	85 A
Maximum recovery speed ⁽²⁾	25 m/min (82 ft/min)	26 m/min (85 ft/min)	25 m/min (82 ft/min)	26 m/min (85 ft/min)
Recovery speed at work load ⁽²⁾	17.5 m/min (57 ft/min)	18 m/min (59 ft/min)	16.5 m/min (54 ft/min)	17 m/min (55.5 ft/min)
Max. noise (-) ⁽⁶⁾	Up to 80 DB			
Minimum motor cable cross section ⁽³⁾	35 mm² (AWG3)	16 mm² (AWG7)	50 mm² (AWG0)	25 mm² (AWG3)
Circuit breaker ⁽⁴⁾	80 A	50 A	100 A	50 A
Deck thickness ⁽⁵⁾	25 ÷ 50 mm (31/32" ÷ 1" 31/32 in)			
Weight	17.3 kg (38.1 lb)		21.2 kg (46.7 lb)	

• (1) After an initial period of use. • (2) Measurements taken on drum diameter. • (3) Minimum recommended value for total length L = <20m. Determine the cable cross section according to the length of the wiring. • (4) With specific circuit breaker for direct current (DC) and delayed (thermal-magnetic or hydraulic-magnetic) circuit breaker. • (5) Studs for greater deck thickness can be supplied upon request. • (6) Noise measured at one metre distance.

MODEL	TB5 DC		TB5 AC
MODEL POWER	1700 W	2000 W	3000 W
Motor voltage	24 V	24 V	230/400 V - Three-phase ⁽⁶⁾
Maximum instantaneous pull	1200 kg (2646 lb)	1260 kg (2778 lb)	2800 kg (6173 lb)
Maximum work load	570 kg (1257 lb)	750 kg (1653 lb)	930 kg (2050 lb)
Work load	190 kg (419 lb)	250 kg (551 lb)	-
Current consumption at work load ⁽¹⁾	100 A	115 A	-
Maximum recovery speed ⁽²⁾	33.1 m/min (108.6 ft/min)	35.2 m/min (114.4 ft/min)	15 m/min (49.2 ft/min)
Recovery speed at work load ⁽²⁾	18.2 m/min (60 ft/min)	19.9 m/min (65.3 ft/min)	-
Max. noise ⁽⁷⁾	Up to 80 DB		
Minimum motor cable cross section ⁽³⁾	25 mm ² (AWG 3)	35 mm ² (AWG 2)	
Circuit breaker ⁽⁴⁾	60 A	80 A	-
Deck thickness ⁽⁵⁾	30÷65 mm (1" 3/16 ÷ 2" 5/16)		30 ÷ 65 mm (1" 3/16 ÷ 2" 5/16)
Weight	30 kg (66.1 lb)	48 kg (106 lb)	49.5 kg (109 lb)

MODEL	TB6 DC		TB6 AC
MODEL POWER	2300 W	3000 W	4000 W
Motor voltage	24 V	24 V	230/240 V - Three-phase ⁽⁶⁾
Maximum instantaneous pull	2400 kg (5291 lb)	3100 kg (6834 lb)	3000 kg (6614 lb)
Maximum work load	850 kg (1874 lb)	1200 kg (2646 lb)	1000 kg (2205 lb)
Work load	285 kg (628 lb)	400 kg (882 lb)	-
Current consumption at work load ⁽¹⁾	120 A	145 A	-
Maximum recovery speed ⁽²⁾	40 m/min (131.2 ft/min)	37.2 m/min (122 ft/min)	15 m/min (49.2 ft/min)
Recovery speed at work load ⁽²⁾	33.1 m/min (108.6 ft/min)	20.2 m/min (66.3 ft/min)	-
Max. noise ⁽⁷⁾	Up to 80 DB		
Minimum motor cable cross section ⁽³⁾	35 mm ² (AWG 2)	35 mm ² (AWG 2)	-
Circuit breaker ⁽⁴⁾	80 A	100 A	-
Deck thickness ⁽⁵⁾	30÷70 mm (1" 3/16 ÷ 2" 3/4)		
Weight	48 kg (105.8 lb)	55.9 kg (122.8 lb)	58 kg (127.9 lb)

MODEL	TB7 DC	TB7 AC	
MODEL POWER	3500 W	3000 W	4000 W
Motor voltage	24 V	230/400 V - Three-phase ⁽⁶⁾	
Maximum instantaneous pull	3500 kg (7716 lb)	2800 kg (6713 lb)	3000 kg (6614 lb)
Maximum work load	1500 kg (3307 lb)	930 Kg (2050 lb)	1000 Kg (2205 lb)
Work load	700 kg (1543 lb)	-	
Current consumption at work load ⁽¹⁾	197 A	-	
Maximum recovery speed ⁽²⁾	33.1 m/min (108.6 ft/min)	15 m/min (49.2 ft/min)	
Recovery speed at work load ⁽²⁾	18.2 m/min (60 ft/min)	-	
Max. noise ⁽⁷⁾	Up to 80 DB		
Minimum motor cable cross section ⁽³⁾	70 mm ² (AWG 2)	-	
Circuit breaker ⁽⁴⁾	150 A	-	
Deck thickness ⁽⁵⁾	30÷60 mm (1" 3/16 ÷ 2" 5/16)	30÷60 mm (1" 3/16 ÷ 2" 5/16)	
Weight	93 kg (205 lb)	95 kg (209.44 lb)	100 kg (220.46 lb)

• (1) After an initial period of use. • (2) Measurements taken on drum diameter. • (3) Minimum recommended value for total length L= <20m. Determine the cable cross section according to the length of the wiring. • (4) With specific circuit breaker for direct current (DC) and delayed (thermal-magnetic or hydraulic-magnetic) circuit breaker. • (5) Studs for greater deck thickness can be supplied upon request. • (6) Three-phase motor • (7) Noise measured at one metre distance.

4 - Information about the product

MODEL	TB8 DC	TB8 AC	
MODEL POWER	3500 W	5500 W	7500 W
Motor voltage	24 V	230/400 V - Three-phase ⁽⁶⁾	230/400 V - Three-phase ⁽⁶⁾
Maximum instantaneous pull	3500 kg (7716 lb)	4500 kg (9920 lb)	5000 kg (11023 lb)
Maximum work load	1500 kg (3307 lb)	2000 kg (4409 lb)	2500 kg (5516 lb)
Work load	700 kg (1543 lb)	-	-
Current consumption at work load ⁽¹⁾	197 A	-	-
Maximum recovery speed ⁽²⁾	29.1 m/min (95.5 ft/min)	12.5 m/min (41 ft/min)	
Recovery speed at work load ⁽²⁾	15 m/min (49.2 ft/min)	-	-
Max. noise ⁽⁷⁾	Up to 80 DB		
Minimum motor cable cross section ⁽³⁾	35 mm ² (AWG 2)	-	-
Circuit breaker ⁽⁴⁾	100 A	-	-
Deck thickness ⁽⁵⁾	30 ÷ 60 mm (1" 3/16 ÷ 2" 5/16)	30 ÷ 60 mm (1" 3/16 ÷ 2" 5/16)	
Weight	151 kg (332.90 lb)	176 kg (388 lb)	182 kg (401.24 lb)

MODEL	TB9 AC
MODEL POWER	11 kW - three-phase ⁽⁶⁾
Motor voltage	400/690 V
Maximum instantaneous pull	8000 kg (17637 lb)
Maximum work load	6000 kg (13228 lb)
Work load	-
Current consumption at work load ⁽¹⁾	-
Maximum recovery speed ⁽²⁾	15 m/min (49.2 ft/min)
Recovery speed at work load ⁽²⁾	-
Max. noise ⁽⁷⁾	Up to 80 DB
Minimum motor cable cross section ⁽³⁾	-
Circuit breaker ⁽⁴⁾	-
Deck thickness ⁽⁵⁾	30 ÷ 60 mm (1" 3/16 ÷ 2" 5/16)
Weight	270 kg (595.2 lb)

• (1) After an initial period of use. • (2) Measurements taken on drum diameter. • (3) Minimum recommended value for total length L= <20m. Determine the cable cross section according to the length of the wiring. • (4) With specific circuit breaker for direct current (DC) and delayed (thermal-magnetic or hydraulic-magnetic) circuit breaker. • (5) Studs for greater deck thickness can be supplied upon request. • (6) Three-phase motor • (7) Noise measured at one metre distance.

4.2 - Hydraulic TB technical data

HYDRAULIC MODEL	TB5 HYDRO		TB6 HYDRO	
Motor type	Reversible gear type		Reversible gear type	
Displacement	9.6 cc	5.9 in ³	17.9 cc	10.9 in ³
Lifting capacity	2000 kg @ 210 bar	4409 lb @ 28447 psi	2500 kg @ 250 bar	5512 lb @ 3625 psi
Recovery speed at work load ⁽¹⁾	11.5 m/min	37.7 ft/min	13 m/min	42.6 ft/min
Max. noise ⁽²⁾	Up to 80 DB		Up to 80 DB	
Deck thickness ⁽³⁾	30÷70 mm (1"3/16 ÷ 2"3/4)		30÷70 mm (1"3/16 ÷ 2"3/4)	
Weight	25 kg	55.1 lb	30 kg	66.1 lb
ADJUSTMENT VALUES (recommended by Quick)				
Flow rate	40 l/min	9.1 USG/min	55 l/min	13.2 USG/min
Maximum pressure	210 bar	3045 psi	250 bar	3625 psi

HYDRAULIC MODEL	TB7 HYDRO		TB8 HYDRO	
Motor type	Reversible gear type		Reversible gear type	
Displacement	17.9 cc	10.9 in ³	43 cc	2.62 in ³
Lifting capacity	2500 kg @ 210 bar	6614 lb @ 2465 psi	3000 kg @ 170 bar	5516 lb @ 3045 psi
Recovery speed at work load ⁽¹⁾	12.5 m/min	41 ft/min	14 m/min	46 ft/min
Max. noise ⁽²⁾	Up to 80 DB		Up to 80 DB	
Deck thickness ⁽³⁾	30÷70 mm (1"3/16 ÷ 2"3/4)		30 ÷ 60 mm (1" 3/16 ÷ 2" 5/16)	
Weight	81 kg	178.57 lb	160 kg	352.7 lb
ADJUSTMENT VALUES (recommended by Quick)				
Flow rate	60 l/min	13.2 USG/min	70 l/min	18.5 USG/min
Maximum pressure	230 bar	3336 psi	200 bar	2500 psi

HYDRAULIC MODEL	TB9 HYDRO	
Motor type	Reversible gear type	
Displacement	45 cc	1.34 in ³
Lifting capacity	2500 kg @	5516 lb @
Recovery speed at work load ⁽¹⁾		
Max. noise ⁽²⁾	Up to 80 DB	
Deck thickness ⁽³⁾	30 ÷ 60 mm (1" 3/16 ÷ 2" 5/16)	
Weight	230 kg	507.1 lb
ADJUSTMENT VALUES (recommended by Quick)		
Flow rate	80 l/min	9.1 USG/min
Maximum pressure	250 bar	3045 psi

(1) Measurements taken on drum diameter.

(2) Noise measured at one metre distance.

(3) Studs for greater deck thickness can be supplied upon request.

4.3- Tightening torques

TIGHTENING TORQUE	Nm
M6	6.5
M8	16
M10	31
M12	55
M14	87
M16	135

Indicative values for stainless steel screws, consider tightening by assessing the material of the surface to which it will be fixed.

4.4 - Standard supply and material included in the package

- Warping winch (top + motor gearbox)
- Contactor unit (TB5) or reversing contactor unit (TB 2 -7-8)
- Lever
- Screws for assembly
- Installation and user's manual, Warranty
- Drilling template

4.5 - Recommended Quick® accessories not included

- Control from control board
- Waterproof push-button panel
- Foot-operated switch
- Control system via RRC radio
- Hydraulic-magnetic circuit breaker
- Diverter from panel

5 - Handling and transport

TBSeries

5.0 - General instructions and precautions

Consider the weight for lifting the TB, refer to section 4 product information, sub-section "technical data" in the manual.

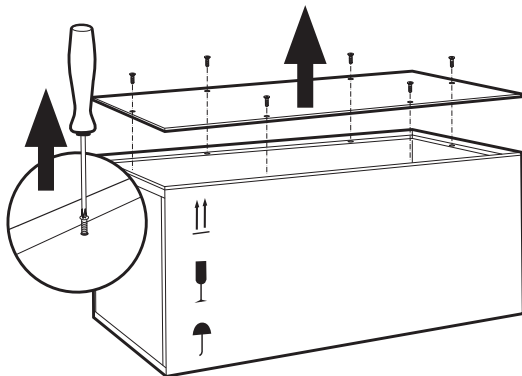


The handling and transport of the TB must be carried out by skilled personnel, capable of fastening loads correctly and in compliance with local regulations regarding work safety.

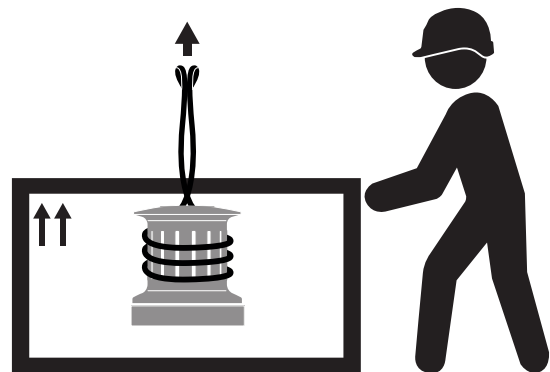
- Lift the TB with a mechanical aid.
- Care must be taken when removing the TB from packaging or when lifting it, taking care NOT to cause damage to the equipment or impact with the ground.

5.1 - Removing the crate and lifting the TBSeries

A. Remove the top panel of the crate.



B. Lift the TB from the crate with the mechanical aid using straps/slings to be tied to the drum.



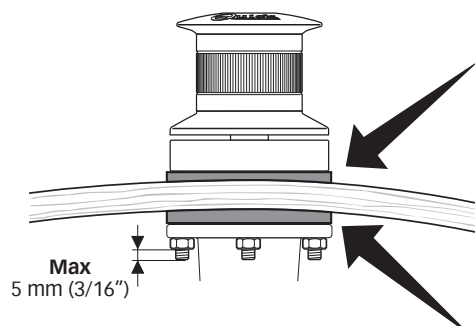
The images are purely indicative and may not fully reflect the product characteristics.

6.0 - Tools required for installation

- TB2** • Drill with bit: Ø 9 mm (23/64") • Hole saw Ø 53 mm (2" 5/64) • Hex wrench: 10 and 13 mm
TB3 • Drill with bit: Ø 9 mm (23/64") • Hole saw Ø 65 mm (2" 35/64) • Hex wrench: 13 mm
TB4 • Drill with bit: Ø 9 mm (23/64") • Hole saw Ø 75 mm (2" 61/64) • Hex wrench: 13 mm
TB5 • Drill with bit: Ø 11 mm (7/16") • Hole saw Ø 95 mm (3" 11/16) • Hex wrench: 17 mm
TB6 • Drill with bit: Ø 11 mm (7/16") • Hole saw Ø 105 mm (4" 3/32) • Hex wrench: 17 mm
TB7 • Drill with bit: Ø 15 mm (19/32") • Hole saw Ø 190 mm (7" 1/2) • Hex wrench: 17 mm and 19 mm
TB8 • Drill with bit: Ø 15 mm (19/32") • Hole saw Ø 250 mm (9" 27/32) • Hex wrench: 17 mm and 19 mm
TB9 • Drill with bit: Ø 18 mm (45/64") • Hole saw Ø 340 mm (13" 25/64) • Hex wrench: 17 mm and 24 mm

6.1 - Installation requirements

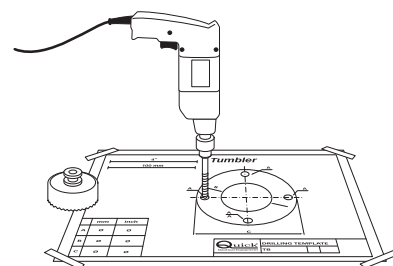
- Check that the upper and lower surfaces of the deck are as parallel as possible; if this is not the case, properly compensate for the difference (lack of parallelism could result in motor power loss).
- The deck thickness must be between the values shown in the table in sect. 4.1. In case of different thickness, please contact your Quick® dealer.



6.2 - Installation procedure

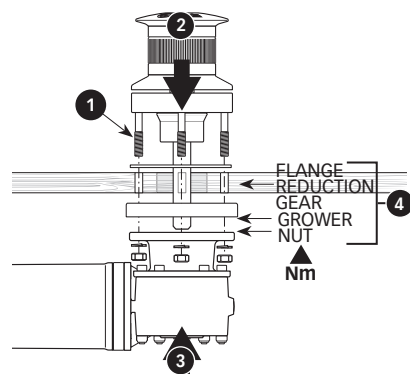
A. Identify the ideal position and drill the holes using the drilling template supplied.

B. Remove the excess material from the passage holes, finish them and smooth them with a specific product (marine paint, epoxy resin or gel) ensuring the free passage of the top.



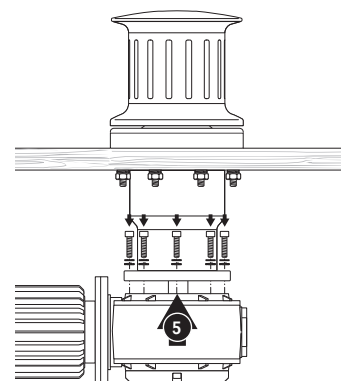
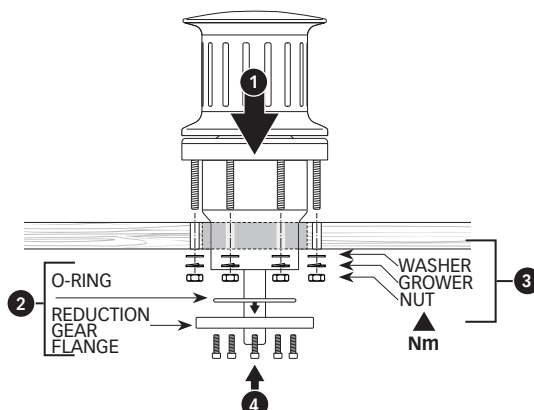
TB2 - TB3 - TB4 - TB5 - TB6

1. Insert the gasket between the deck and the base.
2. Position the upper part.
3. Connect the upper part to the lower part by inserting the warping winch shaft into the gearbox.
4. Secure the warping winch by tightening the screws.



TB7 - TB8 - TB9

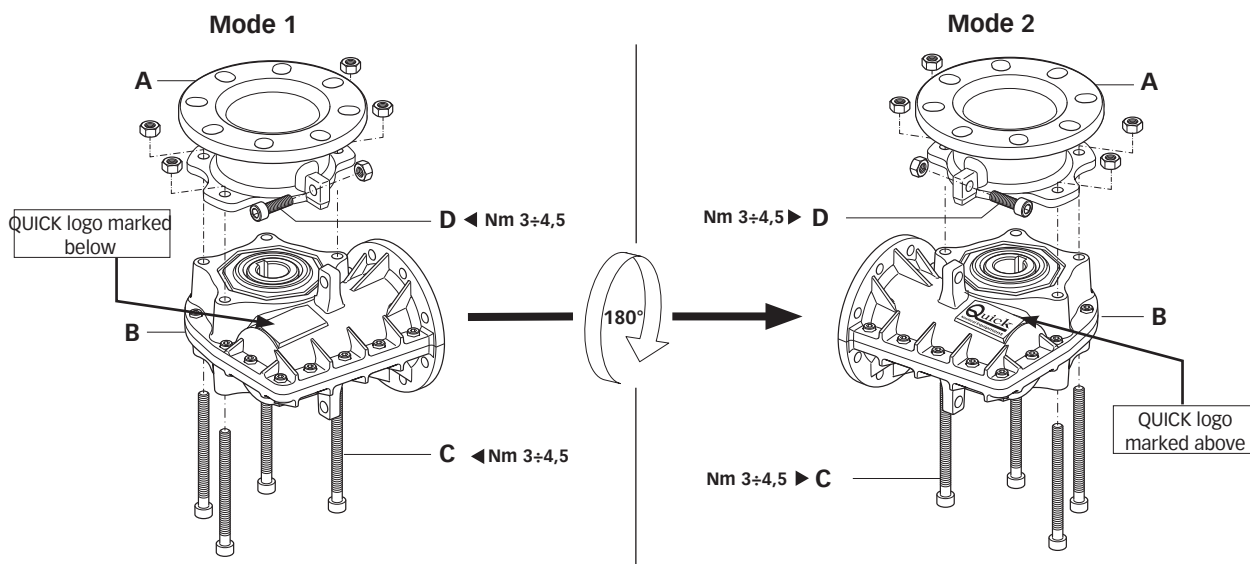
1. Position the warping winch upper part.
2. Position on the gearbox flange and insert the warping winch from the shaft.
3. Secure the warping winch by tightening the screws.
4. Insert the gearmotor into the warping winch shaft.
5. Tighten with screws.



Tighten screws and nuts following a cross pattern with reference to the tightening values shown in the table (page 10). Apply threadlocker on the screws supplied. Periodically check proper tightening of screws.

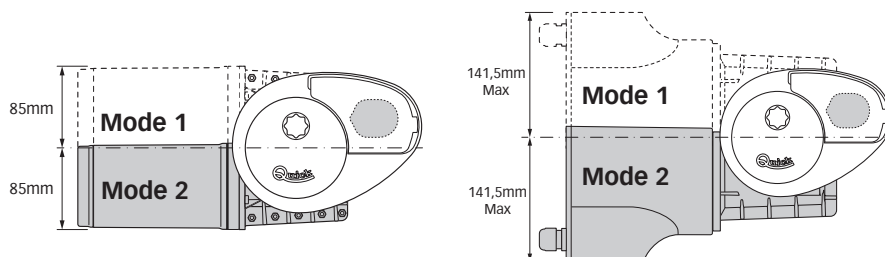
6.3 - TB2 - TB3 flange mounting

Flange **A** can be fixed on both sides of gearbox **B**.



To change from mode 1 to mode 2 unscrew screws **C** and **D** and separate the two parts **A** and **B**, turn gearbox **B** by 180° and reassemble it with screws **C** and **D**.

The two modes allow greater versatility in mounting the motorgearbox, while maintaining the same overall dimensions.



ELECTRIC MOTOR Connect the power cables coming from the warping winch to the mains (AC).

HYDRAULIC MOTOR Connect the pipes coming from the distribution valve to the two hydraulic motor flanges (see wiring diagrams in Sect.7).

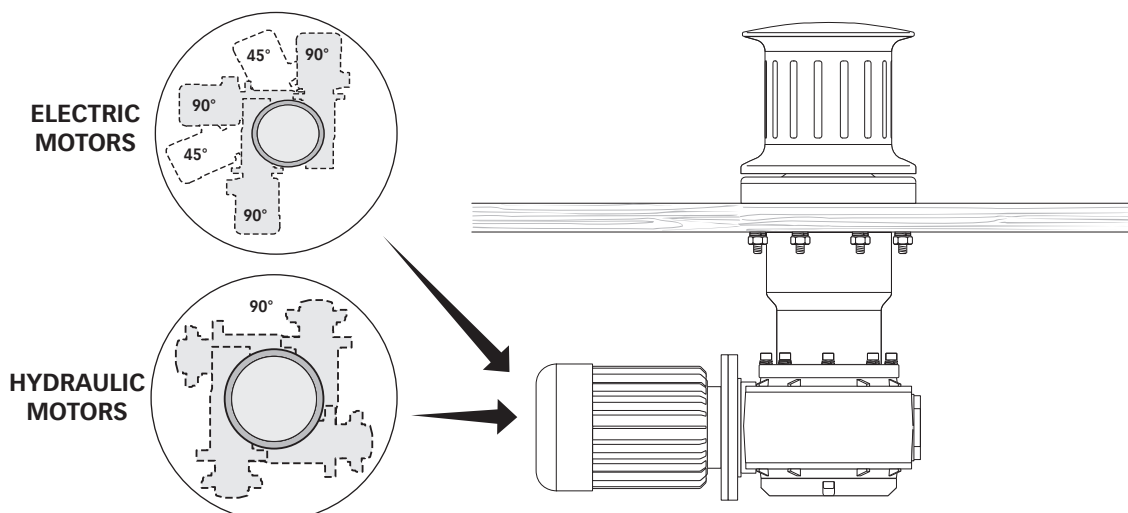


WARNING: before connecting the equipment, make sure that cables are not live.

HORIZONTAL POSITION OF MOTOR GEARBOX AND HYDRAULIC MOTOR

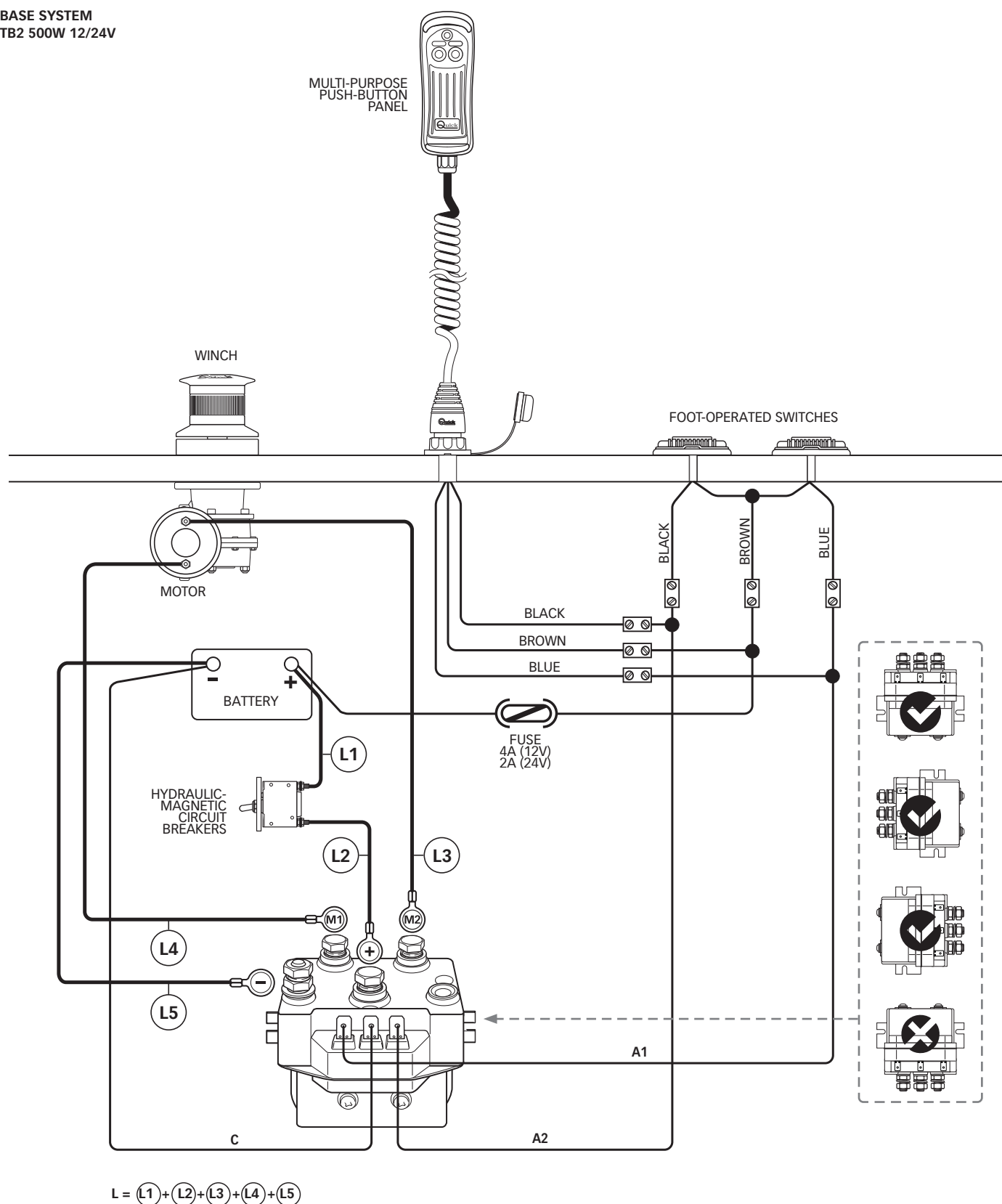
ELECTRIC Depending on the type of gearmotor, a rotation every 45° or 90° is possible.

HYDRAULIC Depending on the type of motor, a rotation every 90° is possible.



7.0 - Wiring diagrams

BASE SYSTEM
TB2 500W 12/24V



7 - Wiring diagram

BASE SYSTEM TB3 TB4 TB5 TB6

700W 12/24V

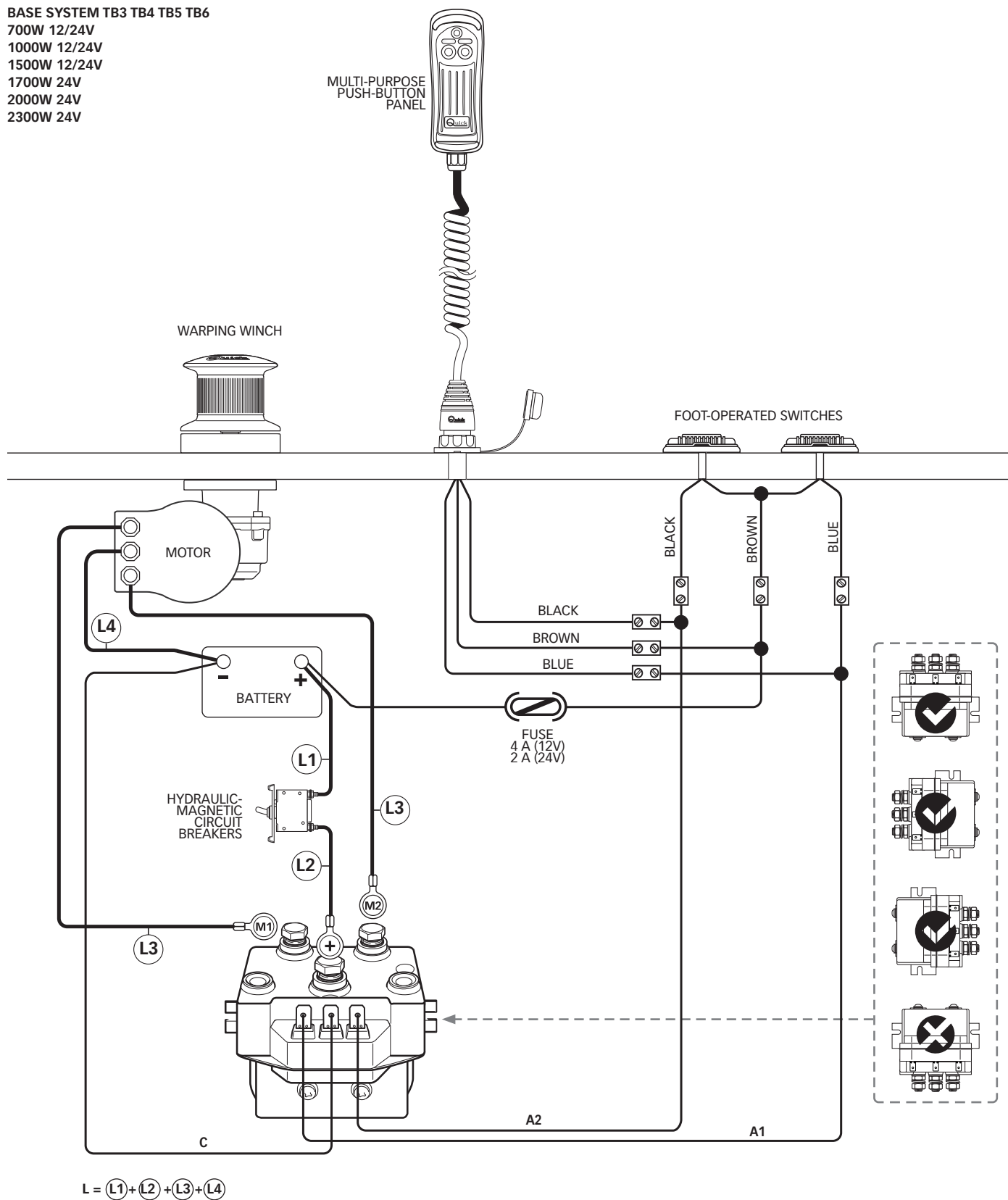
1000W 12/24V

1500W 12/24V

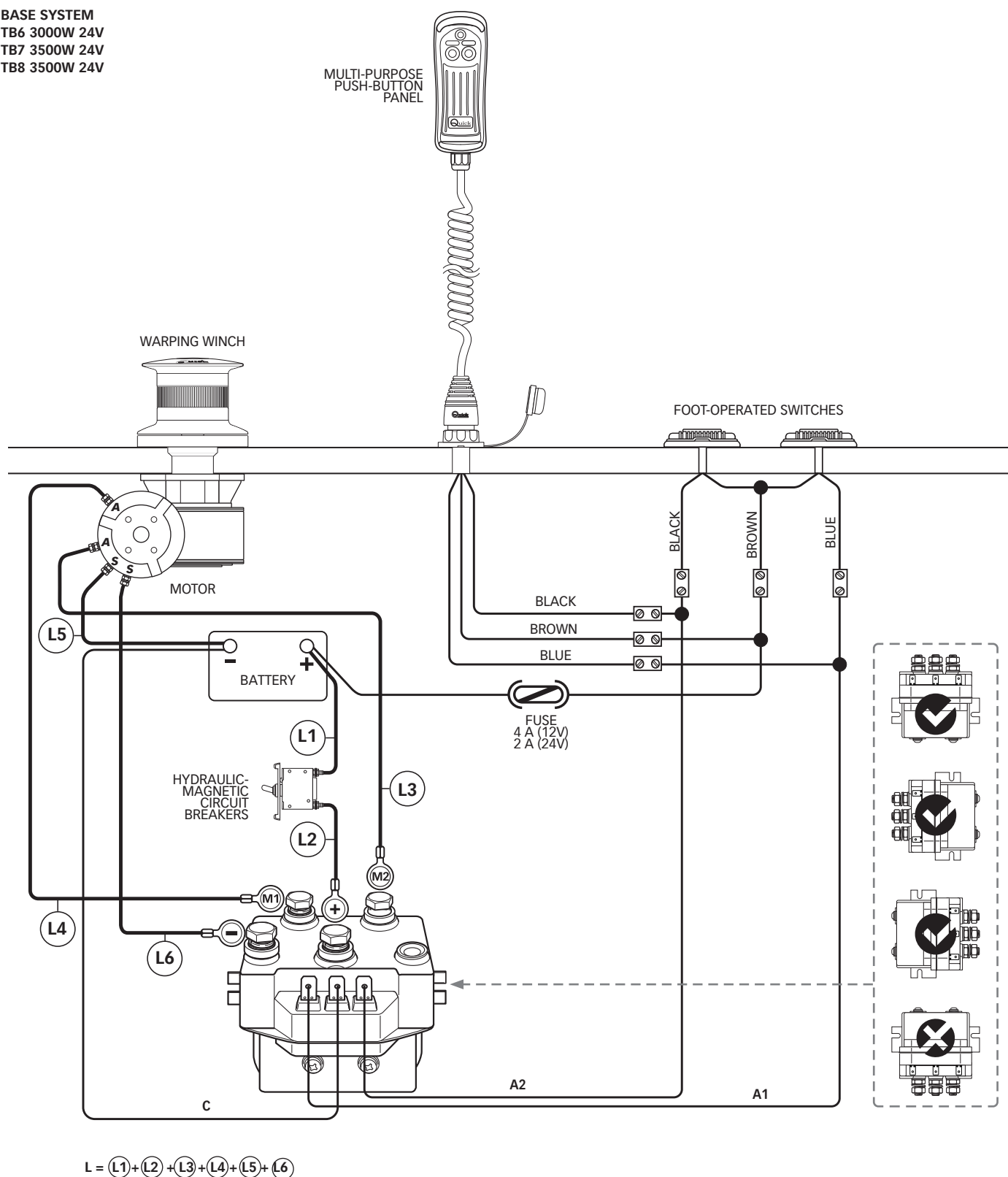
1700W 24V

2000W 24V

2300W 24V



BASE SYSTEM
TB6 3000W 24V
TB7 3500W 24V
TB8 3500W 24V



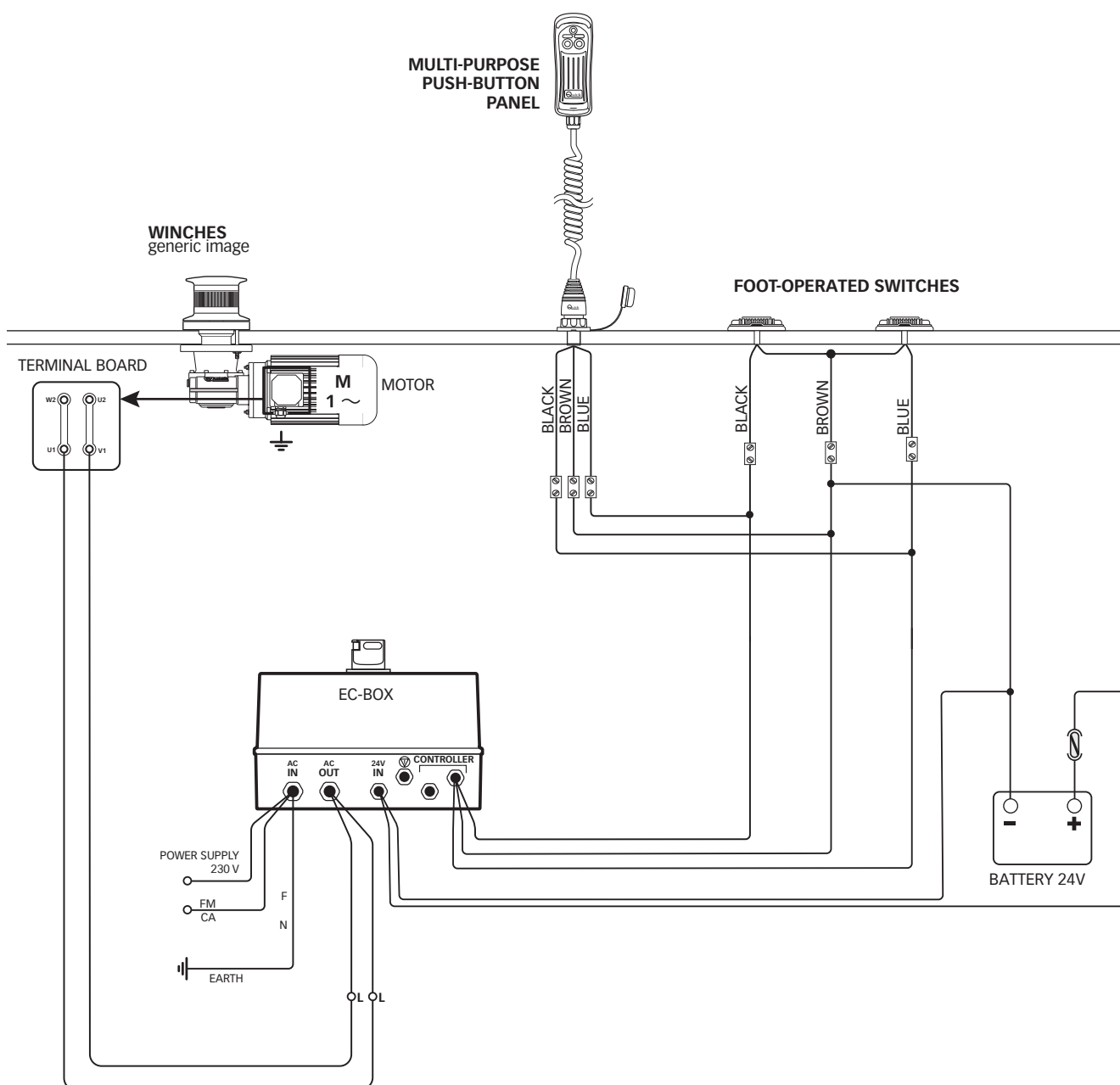
7 - Wiring diagram

BASE SYSTEM

TB5 3000W AC 220V

TB6 4000W AC 220V

TB8 5500W AC 220V



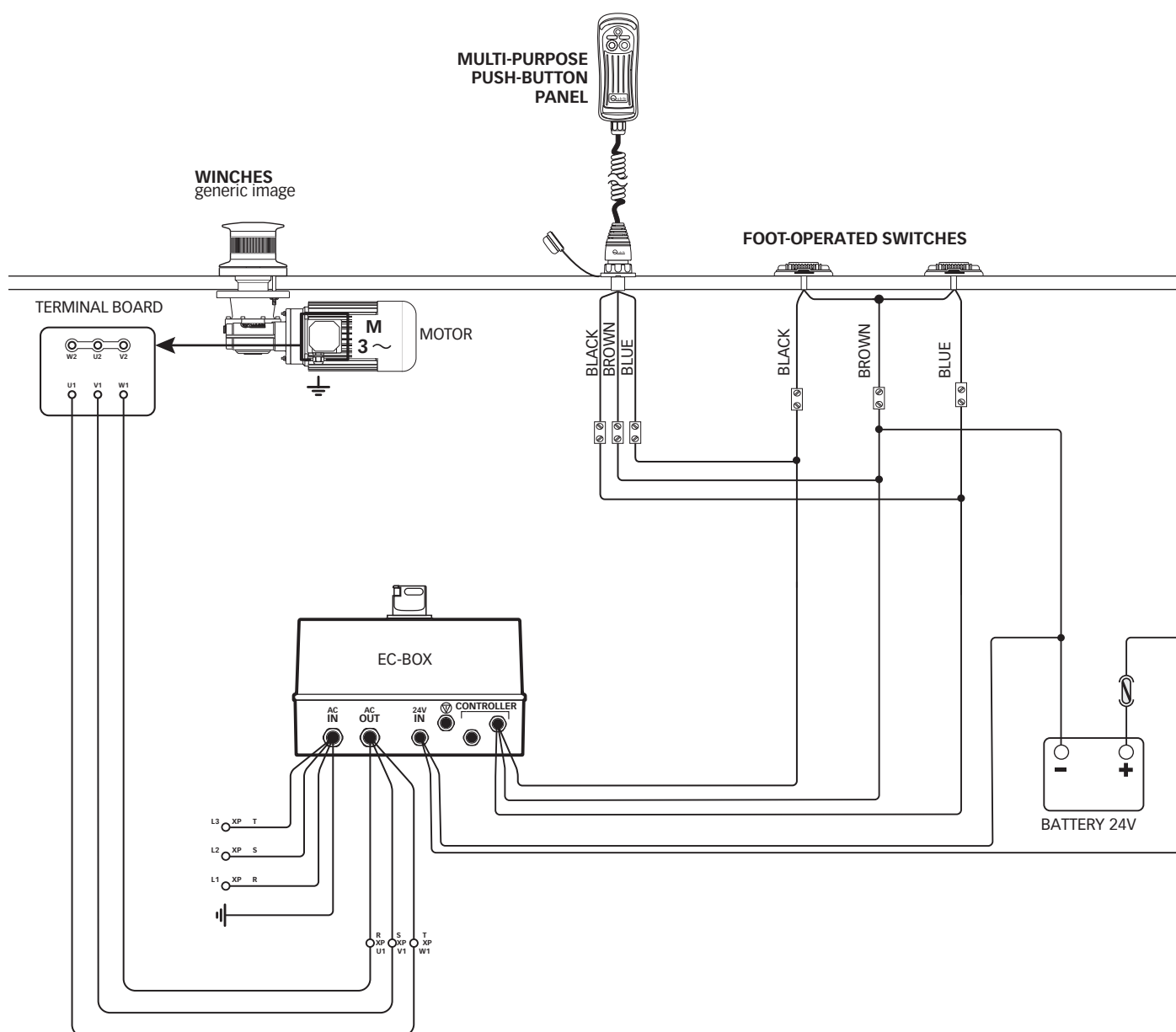
BASE SYSTEM

TB5 3500W AC 400V

TB6 4000W AC 400V

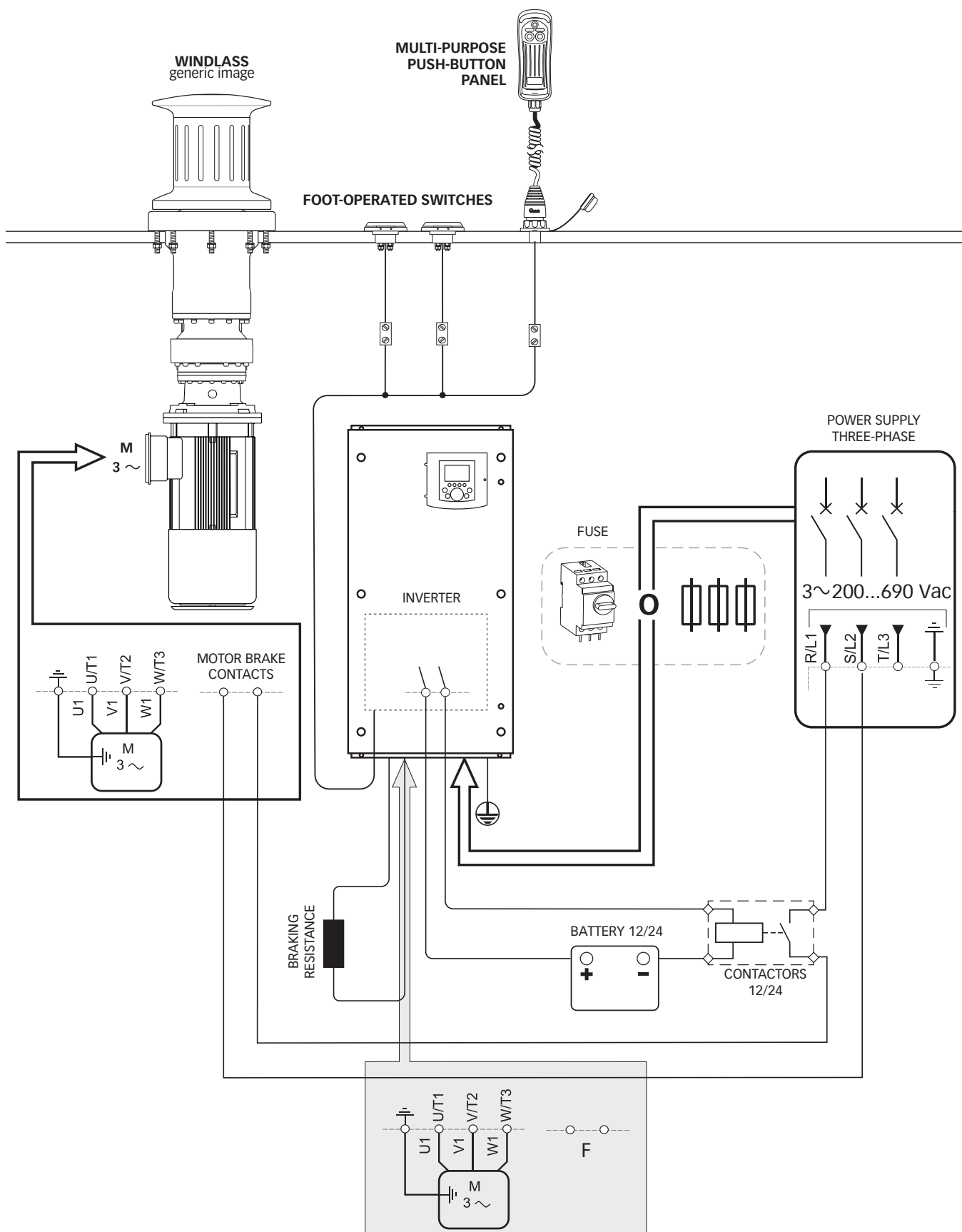
TB7 3000/4000 AC 400V

TB8 7500W AC 400V

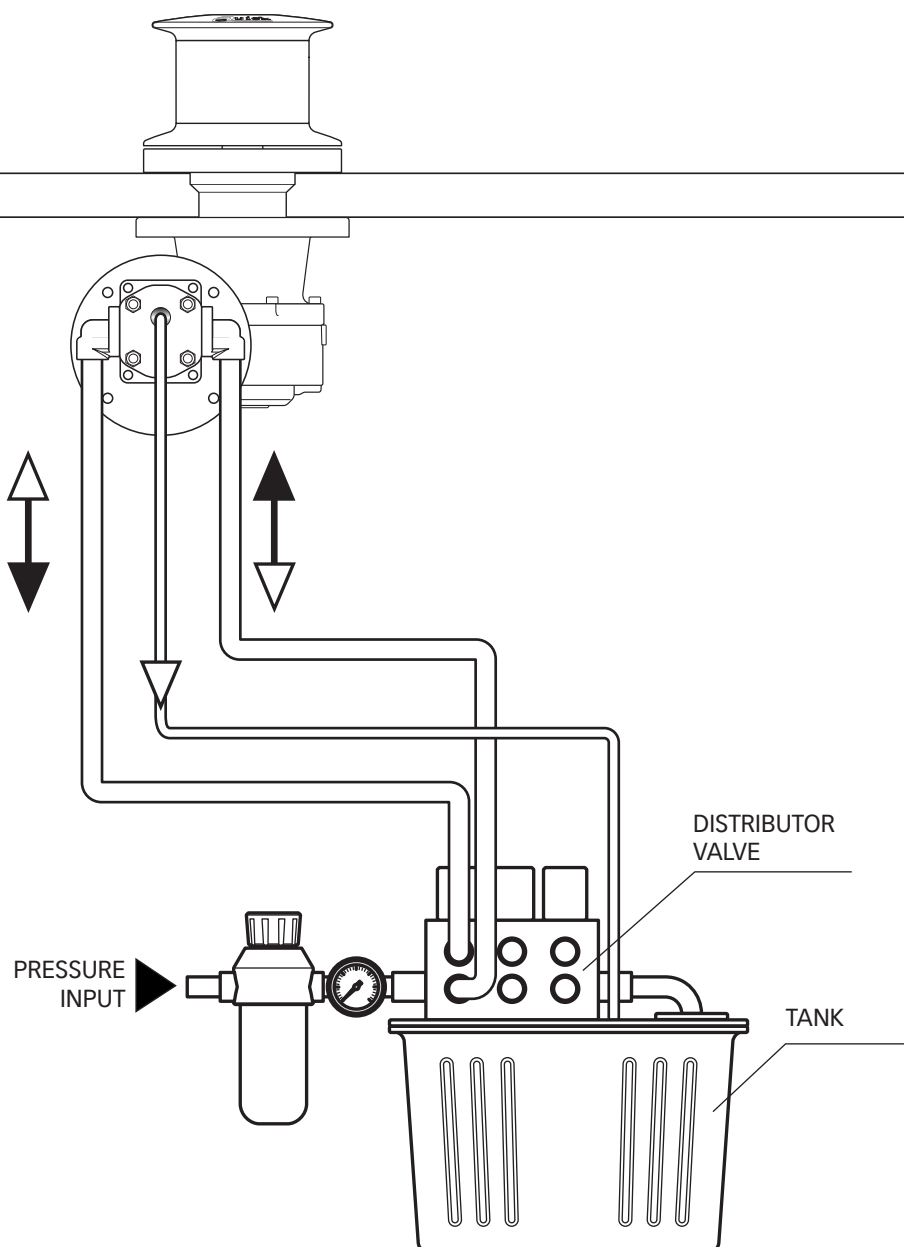


7 - Wiring diagram

BASE SYSTEM
TB9 11KW AC



7.1 - Example of hydraulic connection



8.0 - Precautions for safety and use of the TBseries



DO **NOT** place any part of your body or objects near the rope sliding area.

Operate the warping winch from a position where it is possible to supervise the work area.

Make sure the electric motor is not powered when the warping winch is used manually because people with warping controls (remote push-button panel or radio control) might accidentally operate it.

Secure the rope with a retainer before sailing off.

DO **NOT** operate the warping winches with the lever inserted in the drum.



Quick® recommends using a suitable power fuse/thermal-magnetic/hydraulic-magnetic protection depending on the motor used, to protect the motor from overheating or short circuit.



The circuit breaker can be used to isolate the warping winch control circuit, thus avoiding accidental activation.

8.1 - Warping winch operation

1. Turn on the boat engine.

2. Activate the warping winch using the control at your disposal.



If the warping winch stops and the thermal-magnetic (or hydraulic-magnetic) switch has tripped, reset it and wait a few minutes before resuming the operation.

9 - Faults and remedies



WARNING: make sure the electrical power to the motor is switched off when working manually on the warping winch. Carefully remove the rope from the drum.

Quick® warping winches are made of materials resistant to the marine environment: it is essential, in any case, to periodically remove salt deposits that form on the external surfaces to avoid corrosion and consequently damage to the device.

- Thoroughly wash the surfaces and parts where salt can deposit with fresh water.
- Disassemble the drum once a year; clean each disassembled part to prevent corrosion and grease (with high-performance silicone grease) the shaft thread.

9.0 - TB disassembly procedure - periodic cleaning

1. Insert the lever (A) into the bushing (B) of the drum (C).

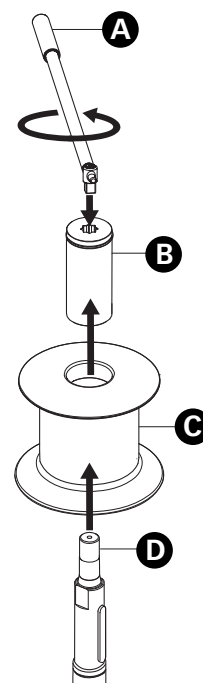
2. Loosen counterclockwise and remove the bushing from the drum.

3. Remove the drum from the shaft (D).

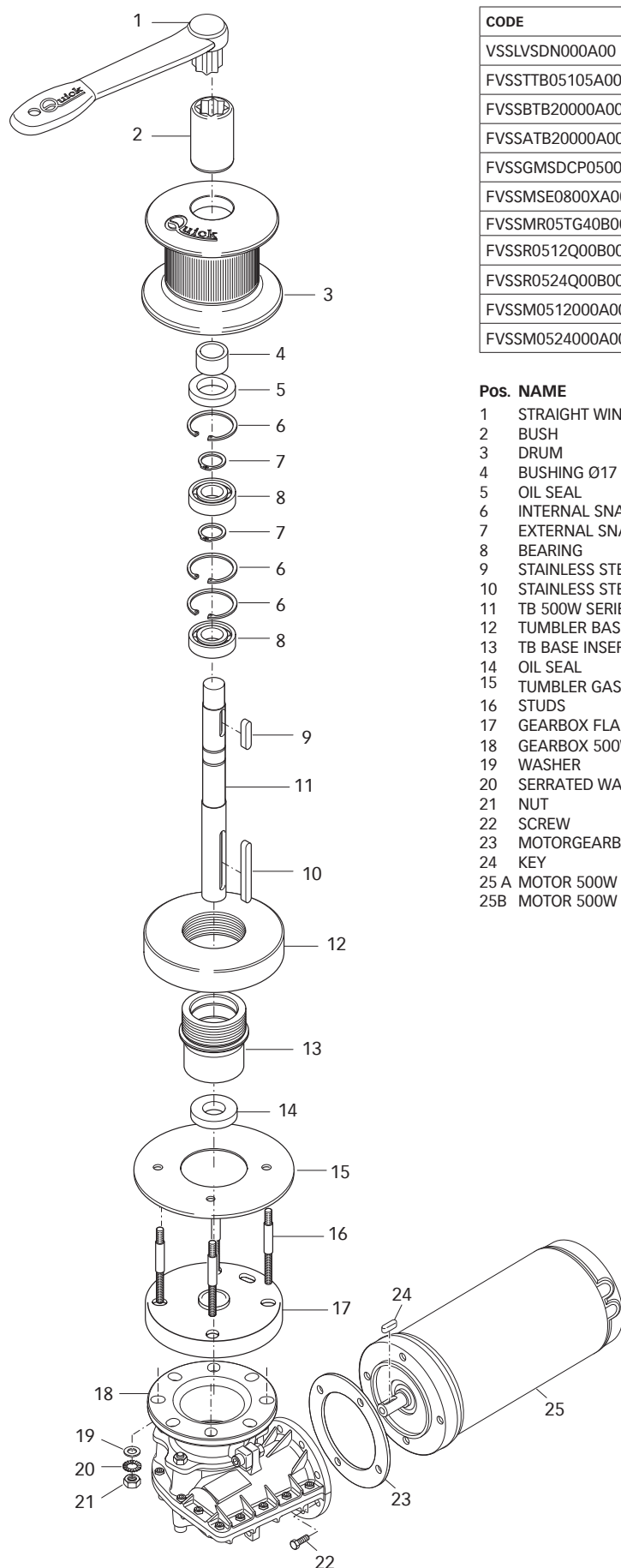


If required, the TB must be disassembled by qualified personnel. Make sure that the motor gearbox is cold before disassembling it.

4. Clean each disassembled part with fresh water and reassemble the parts in the reverse order of disassembly.



TB2

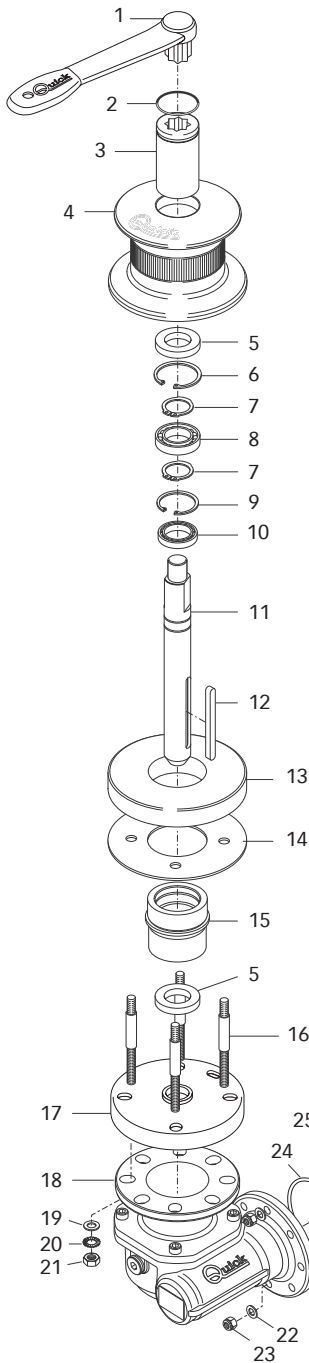


CODE	DESCRIPTION	NUMB. OF PARTS
VSSLVSDN000A00	OSP STRAIGHT NYLON WINDLASS LEVER	1
FVSSTTB05105A00	OSP TOP SERIES TB2	2 to 16, 19 to 21
FVSSBTB20000A00	OSP BASE WINCH SERIES TB2 COMP R1	5,12,16,19 to 21
FVSSATB20000A00	OSP SHAFT KIT TB2	4 to 11, 14
FVSSGMSDCP05000	OSP DRUM BUSH TB2	2
FVSSMSE0800XA00	OSP WINDLASS DRUM TB2	3
FVSSMR05TG40B00	OSP GEARBOX 500W WINDLASS QUICK TG40 R1	17-18, 22-23
FVSSR0512Q00B00	OSP MOTORGearBOX 500W 12V QUICK R1	17-18, 22 to 25
FVSSR0524Q00B00	OSP MOTORGearBOX 500W 24V QUICK R1	15-16, 22 to 25
FVSSM0512000A00	OSP WINDLASS MOTOR 500W 12V	23 to 25
FVSSM0524000A00	OSP WINDLASS MOTOR 500W 24V	23 to 25

Pos. NAME

- 1 STRAIGHT WINDLASS LEVER - NYLON
- 2 BUSH
- 3 DRUM
- 4 BUSHING Ø17
- 5 OIL SEAL
- 6 INTERNAL SNAP RING
- 7 EXTERNAL SNAP RING
- 8 BEARING
- 9 STAINLESS STEEL KEY
- 10 STAINLESS STEEL KEY
- 11 TB 500W SERIES SHAFT
- 12 TUMBLER BASE
- 13 TB BASE INSERT
- 14 OIL SEAL
- 15 TUMBLER GASKET
- 16 STUDS
- 17 GEARBOX FLANGE GASKET
- 18 GEARBOX 500W QUICK SERIES TG40
- 19 WASHER
- 20 SERRATED WASHER
- 21 NUT
- 22 SCREW
- 23 MOTORGearBOX GASKET
- 24 KEY
- 25 A MOTOR 500W 12V
- 25B MOTOR 500W 24V

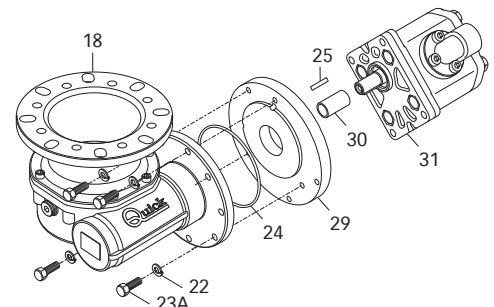
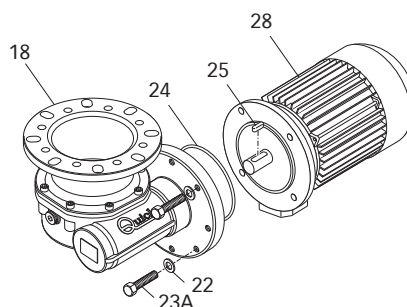
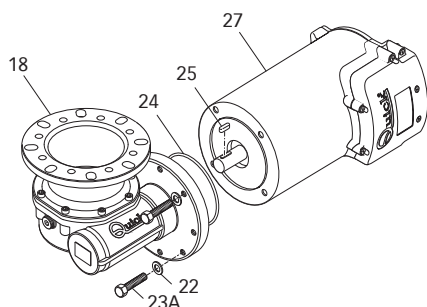
TB3 - TB4 - TB5



CODE	DESCRIPTION	NUMB. OF PARTS
VSSLVSDN000A00	OSP STRAIGHT NYLON WINDLASS LEVER	1
FVSSMSE10AL0A00	OSP WINDLASS DRUM TB3	4
FVSSMSE15DN0A00	OSP WINDLASS DRUM TB4	
FVSSMSE30AG0A00	OSP WINDLASS DRUM TB5	
FVSSGMSDCPAL100	OSP DRUM BUSH TB3	2, 3
FVSSGMSDCPDN100	OSP DRUM BUSH TB4	
FVSSGMSDCPAG300	OSP DRUM BUSH TB5	
FVSSTTB10130A00	OSP TOP SERIES TB3	2 to 16
FVSSTTB15142A00	OSP TOP SERIES TB4	
FVSSTTB20170A00	OSP TOP SERIES TB5	
FVSSBTB30000A00	OSP BASE WINCH SERIES TB3 COMP	5, 13 to 16, 19 to 21
FVSSBTB40000A00	OSP BASE WINCH SERIES TB4 COMP	
FVSSBTB50000A00	OSP BASE WINCH SERIES TB5 COMP	
FVSSATB30000A00	OSP SHAFT KIT TB3	5 to 12
FVSSATB40000A00	OSP SHAFT KIT TB4	
FVSSATB50000A00	OSP SHAFT KIT TB5	
FVSSMR10TG50B00	OSP GEARBOX 1000W QUICK WINDLASS TG50	17-18, 22 to 24
FVSSMR15TG70A00	OSP GEARBOX 1500W QUICK WINDLASS TG70	
FVSSMR17TG70A00	OSP GEARBOX 1700W WINDLASS QUICK	
FVSSMR20TG70A00	OSP GEARBOX 2000W QUICK WINDLASS (*3000W)	17-18, 22 to 26
FVSSR0712Q00A00	OSP MOTORGearBOX 700W 12V QUICK	
FVSSR0724Q00B00	OSP MOTORGearBOX 700W 24V QUICK	
FVSSR1012Q00B00	OSP MOTORGearBOX 1000W 12V QUICK	
FVSSR1024Q00B00	OSP MOTORGearBOX 1000W 24V QUICK	
FVSSR1512Q00A00	OSP MOTORGearBOX 1500W 12V QUICK	
FVSSR1524Q00A00	OSP MOTORGearBOX 1500W 24V QUICK	
FVSSR2024Q00A00	OSP MOTORGearBOX 2000W 24V QUICK	
FVSSR30TRL00A00	OSP MOTOR GearBOX 3000W 230/400V	
FVSSRHY70Q00A00	OSP HYDRO MOTOR GearBOX TB5	
FVSSM0712000A00	OSP WINDLASS MOTOR 700W 12V	22 to 26
FVSSM0724000A00	OSP WINDLASS MOTOR 700W 24V	
FVSSM1012000A00	OSP WINDLASS MOTOR 1000W 12V	
FVSSM1024000A00	OSP WINDLASS MOTOR 1000W 24V	
FVSSM1512000A00	OSP WINDLASS MOTOR 1500W 12V	
FVSSM1524000A00	OSP WINDLASS MOTOR 1500W 24V	
FVSSM1724000A00	OSP WINDLASS MOTOR 1700W 24V	22-23A-24-25-27
FVSSM2024000A00	OSP WINDLASS MOTOR 2000W 24V	
FVSSM3085AC0A00	OSP WINDLASS MOTOR 3000W TR	22-23A-24-25-28
FVSSMHY70Q00A00	OSP HYDRO WINDLASS MOTOR TB5	24, 25, 29 to 31

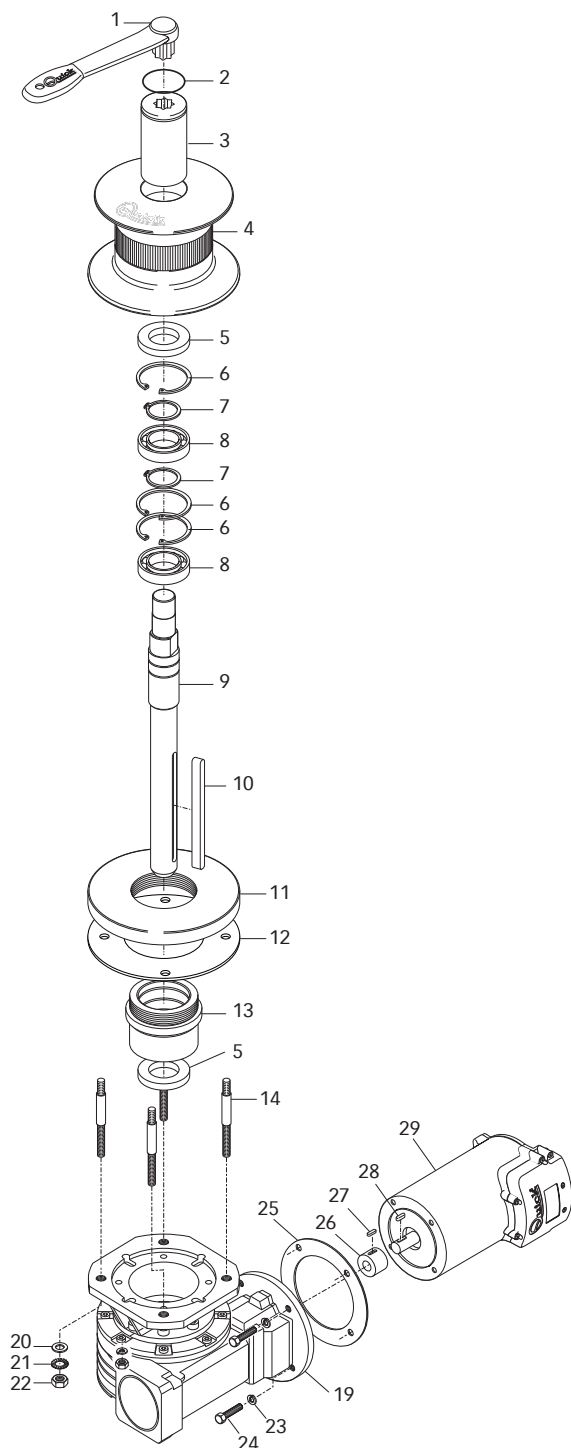
Pos. NAME

1	STRAIGHT WINDLASS LEVER - NYLON	19	WASHER
2	O-RING	20	SERRATED WASHER
3	BUSH	21	NUT
4	DRUM	22	WASHER
5	OIL SEAL	23	SELF-LOCKING NUT
6	INTERNAL SNAP RING	23A	ASCREW
7	EXTERNAL SNAP RING	24	O-RING
8	BEARING	25	KEY
9	INTERNAL SNAP RING	26	AMOTOR 700W 12V
10	BEARING	26B	MOTOR 700W 24V
11	TB SERIES SHAFT	26C	MOTOR 1000W 12V
12	KEY	26D	MOTOR 1000W 24V
13	TUMBLER BASE	26E	MOTOR 1500W 24V
14	TUMBLER GASKET	26F	MOTOR 1700W 24V
15	TB BASE INSERT	27	MOTOR 2000W 24V
16	STUD	28	MOTOR 3000W 230/400V
17	GEARBOX FLANGE GASKET	29	HYDRO MOTOR FLANGE
18	QUICK GEARBOX	30	HYDRO MOTOR ADAPTER
		31	HYDRO MOTOR



*generic image, drawings may vary among TB3 - TB4 - TB5 exploded views

TB6

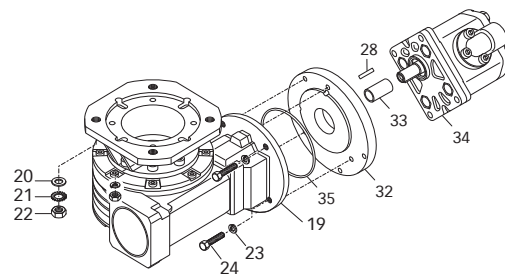
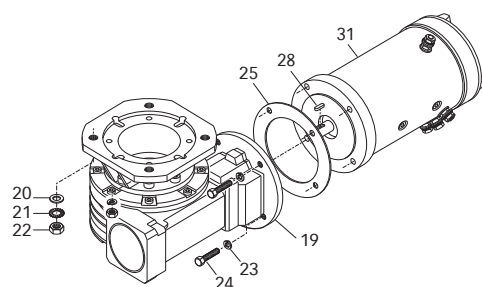
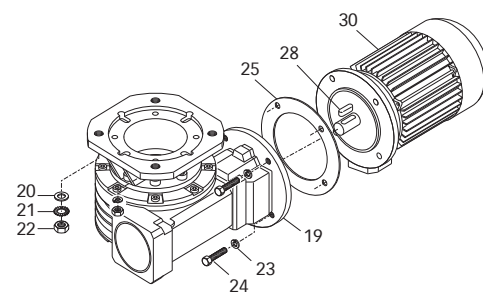


POS. NAME

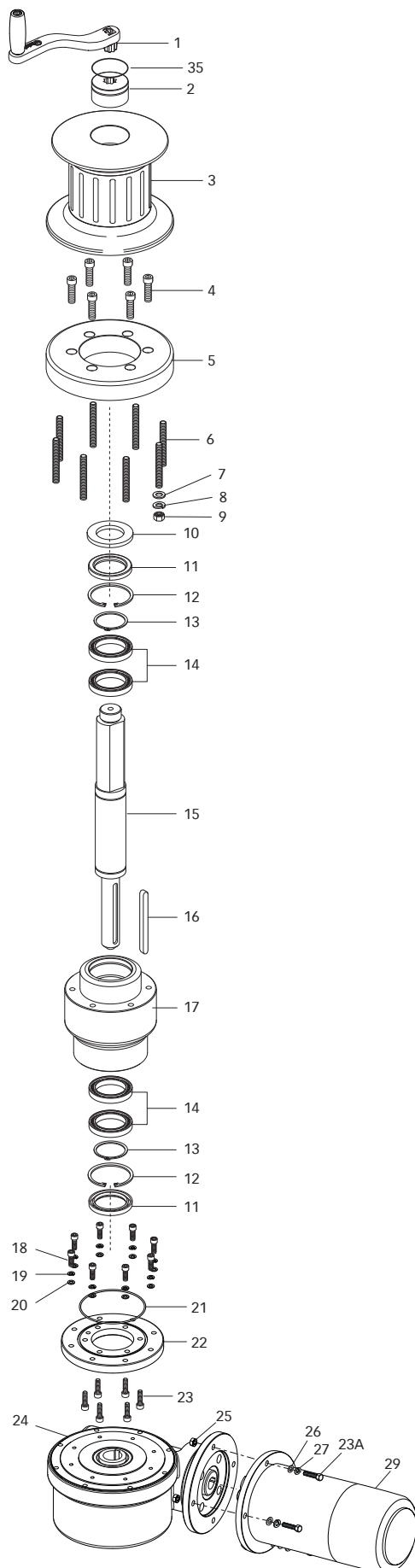
1	CURVED WINDLASS LEVER
2	O-RING
3	BUSHING
4	DRUM
5	OIL SEAL
6	INTERNAL SNAP RING
7	EXTERNAL SNAP RING
8	BEARING
9	TB SERIES SHAFT
10	KEY
11	TUMBLER BASE
12	TUMBLER GASKET
13	TB BASE INSERT
14	STUD
19	GEARBOX 2300W - QUICK

20	WASHER
21	SERRATED WASHER
22	NUT
23	GROWER
24	SCREW
25	MOTOR GEARBOX GASKET
26	MOTOR ADAPTER 2300W
27	KEY
28	MOTOR KEY
29	MOTOR 2300W 24V
30	MOTOR 4000W TR
31	MOTOR 3000W 24V
32	HYDRAULIC MOTOR FLANGE
33	HYDRAULIC MOTOR ADAPTER
34	HYDRAULIC MOTOR
35	MOTOR FLANGE O-RING

CODE	DESCRIPTION	NUMB. OF PARTS
VSSLVSDN000A00	OSP STRAIGHT NYLON WINDLASS LEVER	1, 14, 20 to 22
FVSSSTB10130A00	OSP TOP SERIES TB6	2 to 16, 19 to 21
FVSSGMSDCPDK600	OSP DRUM BUSH TB6	2, 3
FVSSMSE06000A00	OSP WINDLASS DRUM TB6	4
FVSSBTB60000A00	OSP BASE WINCH SERIES TB6 COMP	5 to 7, 20 to 22, 11 to 14
FVSSATB60000A00	OSP SHAFT KIT TB6	2, 5 to 10
FVSSMR23000A00	OSP GEARBOX 2300W WINDLASS	19, 25, 26
FVSSMR30000A00	OSP GEARBOX 3000W WINDLASS	19, 25
FVSSMR4TG850A00	OSP GEARBOX 4000W TG85 TB6	19, 25
FVSSR2324000A00	OSP MOTOR GEARBOX 2300W 24V	19 to 29
FVSSR3024000A00	OSP MOTOR GEARBOX 3000W 24V	19 to 31
FVSSR40TRTB6A00	OSP MOTOR GEARBOX 4000W 230/400V	19 to 30
FVSSRHYTRTB6A00	OSP HYDRO MOTOR GEARBOX	19 to 34
FVSSM2324000A00	OSP WINDLASS MOTOR 2300W 24V	23 to 26, 28, 29
FVSSM3024DK0A00	OSP WINDLASS MOTOR 3000W 24V	28, 31
FVSSM4000AC0A00	OSP WINDLASS MOTOR 4000W TR	28, 30
FVSSMHYTB600A00	OSP GEAR MOTOR 17.9CC (HYDRO)	23-24-28-32-33-34

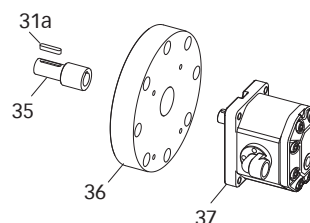
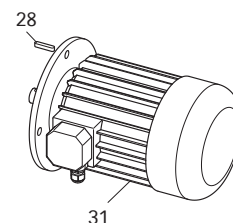
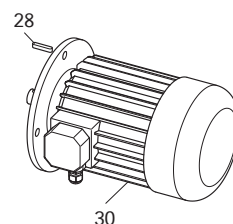


TB7

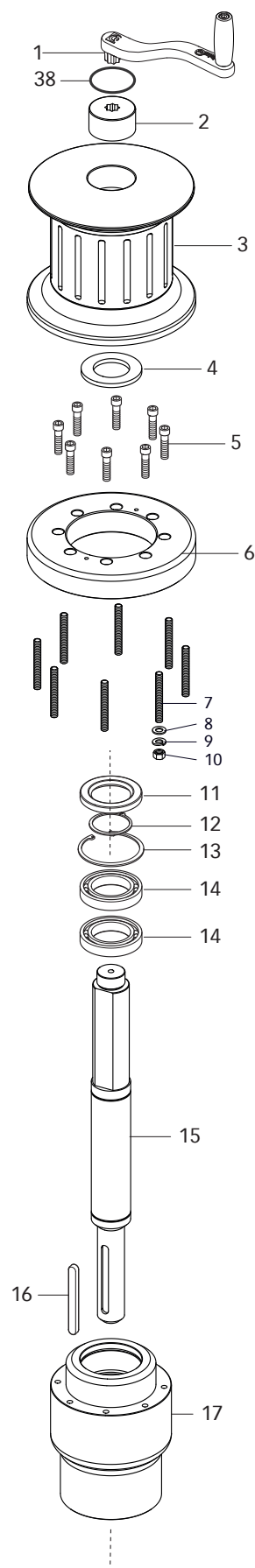


POS.	NAME	20	WASHER
1	CURVED WINDLASS LEVER	21	O-RING
2	TB7 DRUM BUSHING	22	HUB FLANGE
3	TB7 WINDLASS DRUM	23	SCREW
4	SCREW	23 A	MOTOR SCREW
5	TUMBLER BASE	24	TG130 GEARBOX
6	STUD	25	NUT
7	WASHER	26	WASHER
8	GROWER	27	GROWER
9	NUT	28	KEY
10	REINFORCING WASHER	29	MOTOR 3500W 24V
11	OIL SEAL	30	MOTOR 3000W TR
12	TUMBLER GASKET	31	MOTOR 4000W TR
13	INTERNAL SNAP RING	32	HYDRAULIC MOTOR ADAPTER
14	BEARING	33	HYDRAULIC MOTOR FLANGE
15	TB SERIES WINDLASS SHAFT	34	HYDRAULIC MOTOR
16	KEY	35	O-RING
17	TB7 BASE INSERT		
18	SCREW		
19	GROWER		

CODE	DESCRIPTION	NUMB. OF PARTS
FVSSLVSP00R2A00	OSP CURVED WINDLASS LEVER	1
FVSSGMSDCPTB700	OSP DRUM BUSH TB7	3, 35
FVSSMSETB700A00	OSP DRUM TB7	3
FVSSTTB70000A00	OSP TOP SERIES TB7	2 to 17, 21 to 23, 35
FVSSBTB70000A00	OSP BASE WINCH TUMBLER TB7	4 to 9, 11 to 13, 17, 21, 23
FVSSATB70000A00	OSP SHAFT KIT TB7	11 to 16
FVSSMR400000A00	OSP GEARBOX 4000W WINDLASS (*35000 24V)	24
FVSSR3524DK0A00	OSP MOTOR GEARBOX 3500W 24V	23A to 29
FVSSR30TRL00A00	OSP MOTOR GEARBOX 3000W TR	24, 28, 30
FVSSR40TR000A00	OSP MOTOR GEARBOX 4000W TR	24, 28, 31
FVSSRHYTR000A00	OSP HYDRO MOTOR GEARBOX	24, 28, 32 to 34
FVSSM3524DK0A00	OSP WINDLASS MOTOR 3500W 24V	29
FVSSM3085AC0A00	OSP WINDLASS MOTOR 3000W TR	28, 30
FVSSM4000AC0A00	OSP WINDLASS MOTOR 4000W TR	28, 31
FVSSMHYTB700A00	OSP GEAR MOTOR 17.9CC (HYDRO)	23A, 25 to 28, 32, 33, 34

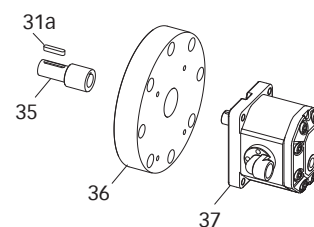
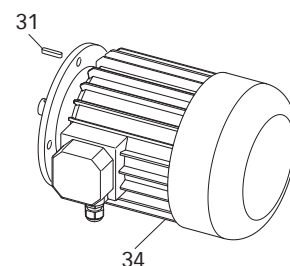
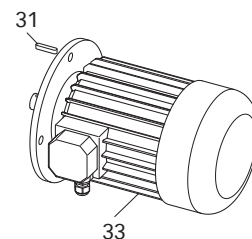


TB8

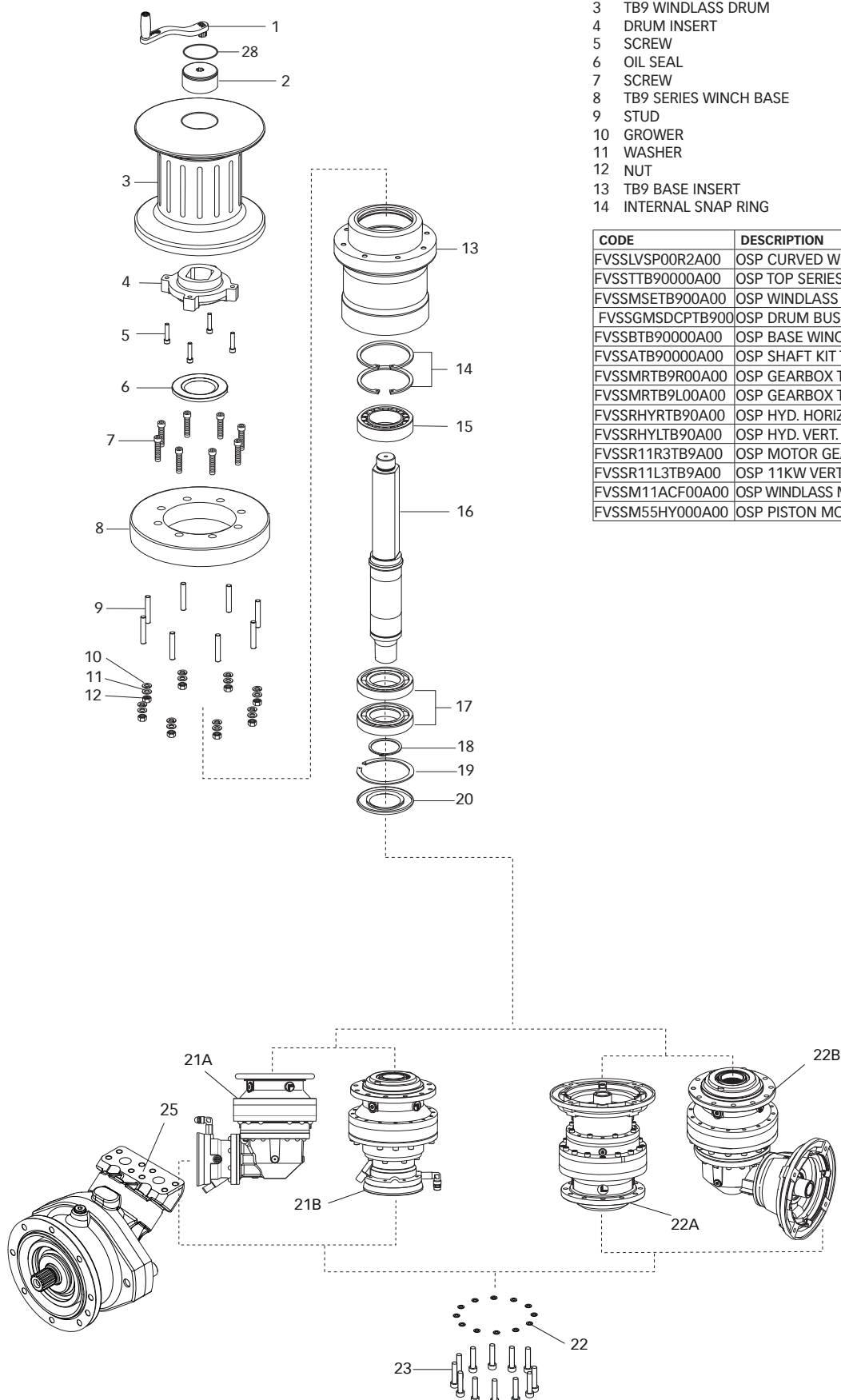


POS.	NAME		
1	CURVED WINDLASS LEVER	21	WASHER
2	TB8 DRUM BUSHING	22	HUB FLANGE
3	TB8 WINDLASS DRUM	23	O-RING
4	REINFORCING WASHER	24	SCREW
5	SCREW	24a	MOTOR SCREW
6	TUMBLER BASE	25	TG130 GEARBOX
7	STUD	26	GEARBOX CLOSING FLANGE
8	WASHER	27	SCREW
9	GROWER	28	NUT
10	NUT	29	WASHER
11	OIL SEAL	30	GROWER
12	EXTERNAL SNAP RING	31	KEY
13	INTERNAL SNAP RING	31a	HYDRAULIC MOTOR
14	BEARING	32	MOTOR 3500W 24V
15	TB8 SERIES WINDLASS SHAFT	33	MOTOR 5.5KW TR
16	KEY	34	MOTOR 7.5KW TR
17	TB8 BASE INSERT	35	ADAPTER
18	O-RING	36	HYDRAULIC MOTOR FLANGE
19	SCREW	37	HYDRAULIC MOTOR
20	GROWER	38	BUSH O-RING

CODE	DESCRIPTION	NUMB. OF PARTS
FVSSLVSP00R2A00	OSP CURVED WINDLASS LEVER	1
FVSTTB80000A00	OSP TOP SERIES TB8	2 to 23, 26, 27, 38
FVSSMSETB800A00	OSP WINDLASS DRUM TB8	3
FVSSGMSDCPTB800	OSP DRUM BUSH TB8	2, 38
FVSSBTB80000A00	OSP BASE WINCH SERIES TB8 COMP	5 to 13, 18, 24
FVSSATB80000A00	OSP SHAFT KIT TB8	11 to 16
FVSSMRTG1300A00	OSP GEARBOX TG130	23, 25 to 27
FVSSR3524TB8A00	OSP MOTOR GEARBOX 3500W 24V	23, 25 to 27, 28 to 30, 32
FVSSR55TRXR7A00	OSP MOTOR GEARBOX 5500W TR	23, 25 to 27, 31, 33
FVSSR7STRTB8A00	OSP MOTOR GEARBOX 7500W TR	23, 25 to 27, 31, 34
FVSSRHY13Q00A00	OSP HYDRO MOTOR GEARBOX	23, 25 to 27, 31a, 35, 36, 37
FVSSM3524DK0A00	OSP WINDLASS MOTOR 3500W 24V	24 to 28 to 32
FVSSM5500AC0A00	OSP WINDLASS MOTOR 5500W TR	24 to 28 to 31, 33
FVSSM7500AC0A00	OSP WINDLASS MOTOR 7500W TR	24 to 28 to 31, 34
FVSSMHYT800A00	OSP HYDRAULIC MOTOR	31 to 35, 36, 37



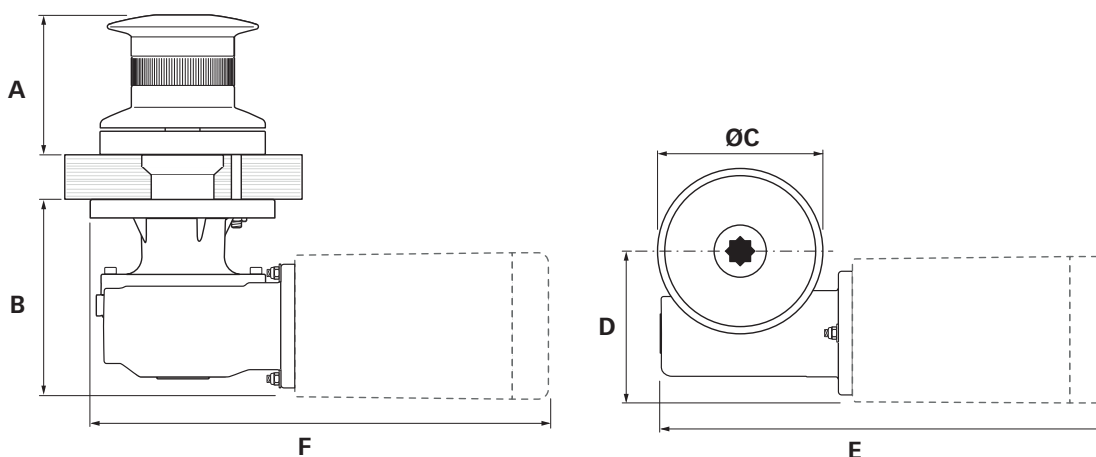
TB9



POS. NAME

- | | |
|-------------------------|---------------------------|
| 1 CURVED WINDLASS LEVER | 15 BEARING |
| 2 TB9 DRUM BUSHING | 16 TB9 SERIES SHAFT |
| 3 TB9 WINDLASS DRUM | 17 BEARING |
| 4 DRUM INSERT | 18 EXTERNAL SNAP RING |
| 5 SCREW | 19 INTERNAL SNAP RING |
| 6 OIL SEAL | 20 OIL SEAL |
| 7 SCREW | 21 AHY VERTICAL GEARBOX |
| 8 TB9 SERIES WINCH BASE | 21B HY HORIZONTAL GEARBOX |
| 9 STUD | 22 AVERTICAL GEARBOX |
| 10 GROWER | 22B HORIZONTAL GEARBOX |
| 11 WASHER | 23 GROWER |
| 12 NUT | 24 SCREW |
| 13 TB9 BASE INSERT | 25 HYDRAULIC MOTOR |
| 14 INTERNAL SNAP RING | 26 MOTOR KEY |
| | 27 MOTOR 11 KW |

CODE	DESCRIPTION	NUMB. OF PARTS
FVSSLVSP00R2A00	OSP CURVED WINDLASS LEVER	1
FVSSSTB90000A00	OSP TOP SERIES TB9	2 to 18, 23, 24, 28
FVSSMSETB900A00	OSP WINDLASS DRUM TB9	3, 4, 5
FVSSGMSDCPTB900	OSP DRUM BUSH TB9	2, 28
FVSSBTB90000A00	OSP BASE WINCH SERIES TB9 COMP	6 to 14, 18, 23, 24
FVSSATB90000A00	OSP SHAFT KIT TB9	6, 14 to 18
FVSSMRTB9R00A00	OSP GEARBOX TB9 HORIZONTAL	22B
FVSSMRTB9L00A00	OSP GEARBOX TB9 VERTICAL	22A
FVSSRHYRTB90A00	OSP HYD. HORIZ. MOTOR GEARBOX	21A
FVSSRHYLTB90A00	OSP HYD. VERT. MOTOR GEARBOX	21B
FVSSR11R3TB9A00	OSP MOTOR GEARBOX 11KW HORIZ.	22, 23, 22B, 26, 27
FVSSR11L3TB9A00	OSP 11KW VERT. MOTOR GEARBOX	22, 23, 22 TO 26, 27
FVSSM11ACF00A00	OSP WINDLASS MOTOR 11KW + BRAKE	26, 27
FVSSM55HY000A00	OSP PISTON MOTOR	25



TB2 - TB3

	TB2 500W DC	TB3 700W DC	TB3 1000W DC
A	103 (4 3/64)	113 (4 29/64)	113 (4 29/64)
B	124.4 (4 57/64)	155.4 (6 1/8)	155.4 (6 1/8)
C	Ø 105 (4 9/64)	Ø 130 (5 1/8)	Ø 130 (5 1/8)
D	85 (3 11/32)	141.5 (5 9/16)	141.5 (5 9/16)
E	281.2 (11 1/16)	339.5 (13 3/8)	354.5 (13 31/32)

TB4 - TB5

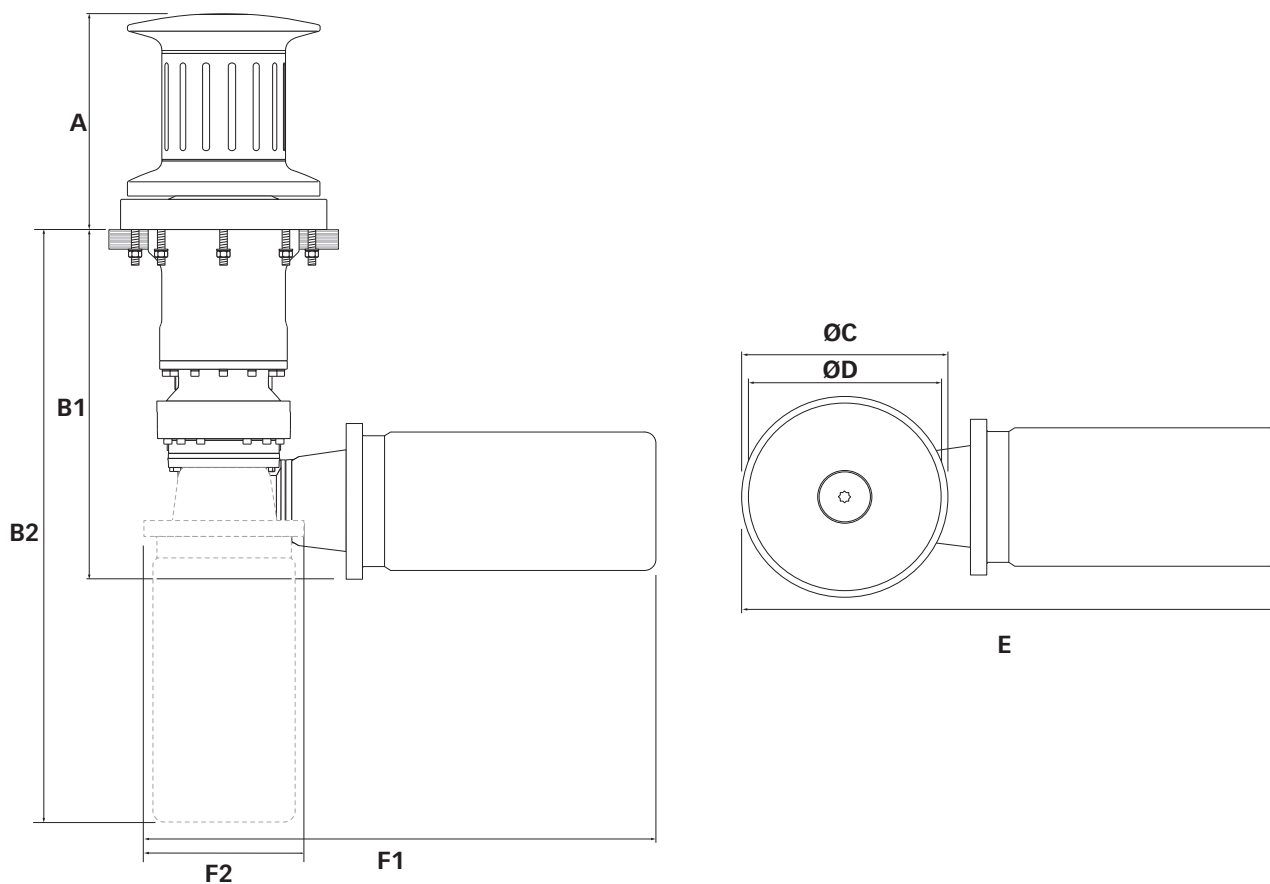
	TB4 1000W DC	TB4 1500W DC	TB5 1700W DC	TB5 2000W DC	TB5 3000W AC	TB5 HYDRO
A	120 (4 23/32)	120 (4 23/32)	135.3 (5 21/64)	135 (5 5/16)	135.3 (5 21/64)	135.3 (5 21/64)
B	170.4 (6 45/64)	170.4 (6 45/64)	175.4 (6 29/32)	184 (7 1/4)	202 (7 61/64)	183 (7 3/32)
C	Ø 142 (5 19/32)	Ø 142 (5 19/32)	Ø 170 (6 11/64)	Ø 170 (6 11/16)	Ø 170 (6 11/16)	Ø 170 (6 11/16)
D	161.5 (6 23/64)	161.5 (6 23/64)	161.5 (6 23/64)	170 (6 11/16)	204 (8 1/32)	170 (6 11/16)
E	385 (15 5/32)	385 (15 5/32)	-	-	-	-
F	-	-	403 (15 7/8)	430 (16 15/16)	503 (19 51/64)	301 (11 27/32)

TB6 - TB7

	TB6 2300W DC	TB6 3000W DC	TB6 4000W AC	TB6 HYDRO	TB7 3500W DC	TB7 3000W AC	TB7 4000W AC	TB7 HYDRO
A	160.4 (6 5/16)	160.4 (6 5/16)	160.4 (6 5/16)	160.4 (6 5/16)	250 (9 27/32)	250 (9 27/32)	250 (9 27/32)	250 (9 27/32)
B	185 (7 9/32)	205 (8 5/64)	253 (9 61/64)	195 (7 43/64)	339 (12 43/64)	339 (12 43/64)	339 (12 43/64)	339 (12 43/64)
C	Ø 200 (7 7/8)	Ø 200 (7 7/8)	Ø 200 (7 7/8)	Ø 200 (7 7/8)	Ø 250 (9 27/32)	Ø 250 (9 27/32)	Ø 250 (9 27/32)	Ø 250 (9 27/32)
D	191 (7 33/64)	191 (7 33/64)	217.6 (8 9/16)	183 (7 13/64)	210 (8 17/64)	244 (9 19/32)	244 (9 19/32)	210 (8 17/64)
E	480 (18 57/64)	520 (20 15/32)	554 (21 53/64)	358 (14 3/32)	590 (23 15/64)	600 (23 5/8)	600 (23 5/8)	408 (16 1/16)

TB8

	TB8 3500W DC	TB8 5500W AC	TB8 7500W AC	TB8 HYDRO
A	310 (19 11/16)	310 (19 11/16)	310 (19 11/16)	310 (19 11/16)
B	462 (18 3/16)	472 (18 37/64)	462 (18 3/16)	462 (18 3/16)
C	Ø 300 (11 13/16)	Ø 300 (11 13/16)	Ø 300 (11 13/16)	Ø 300 (11 13/16)
D	255 (10 1/32)	255 (10 1/32)	255 (10 1/32)	255 (10 1/32)
E	690.5 (27 11/64)	668 (26 19/64)	481 (18 15/16)	481 (18 15/16)



TB9

	TB9 11KW AC VERTICAL	TB9 11KW AC HORIZONTAL	TB9 HYDRO VERTICAL	TB9 HYDRO HORIZONTAL
A	484 (27 7/8)		484 (27 7/8)	
B1	-	787 (30 63/64)	-	737 (29 1/64)
B2	1350 (53 5/32)	-	883 (34 49/64)	-
C	Ø 450 (17 23/32)		Ø 450 (17 23/32)	
D	Ø 420 (16 17/32)		Ø 420 (16 17/32)	
E	-	1195 (47 2/64)	-	730 (28 47/64)
F1	-	1077.50 (42 13/32)	-	650 (25 37/64)
F2	414 (16 19/64)	-	292 (11 1/2)	-

Your contribution to protecting the environment

The crossed out bin symbol indicates that the product must be delivered for proper disposal.

The user is responsible for erasing any personal data from the electronic equipment to be disposed.

Proper separate collection helps to avoid possible negative effects on the environment and health and promotes the recycling of the materials of the equipment.

Disposal of packaging

The purpose of the packaging is to protect the goods from transport damage. The packaging materials used are recyclable, as they are selected in an environmentally friendly and easy-to-dispose manner.

The packaging may be retained for possible shipment to the authorized technical service department in the event of damage or equipment failure.

The individual components of the packaging may be collected separately in accordance with separate collection criteria.

Returning packages to the material collection circuit saves raw materials on one hand and reduces the volume of waste on the other.

Product disposal

Electrical and electronic equipment often contains useful materials. They also contain substances, compounds and components that were necessary for the operation and safety of the equipment. Improper disposal could be harmful to health and the environment.

The product consists of metal and plastic materials which, when separated, can often contain useful materials. Improper disposal could be harmful to health and the environment.

The user is therefore advised to separate the materials prior to disposal in order to ensure correct delivery of the materials including for possible reuse. In any case, follow the applicable delivery regulations of the country in which the product is used.

For EU countries

Disposal of waste electrical and electronic equipment (WEEE), in compliance with Directive 2012/19/EU and implementation of its transposition into national law.

For non-EU countries

Dispose of the equipment in accordance with the applicable waste electrical and electronic equipment regulations.

TB Series

REV 000A



WARPING WINCHES

TB2 P 500

TB3 P 700 - 1000

TB4 1000 - 1500

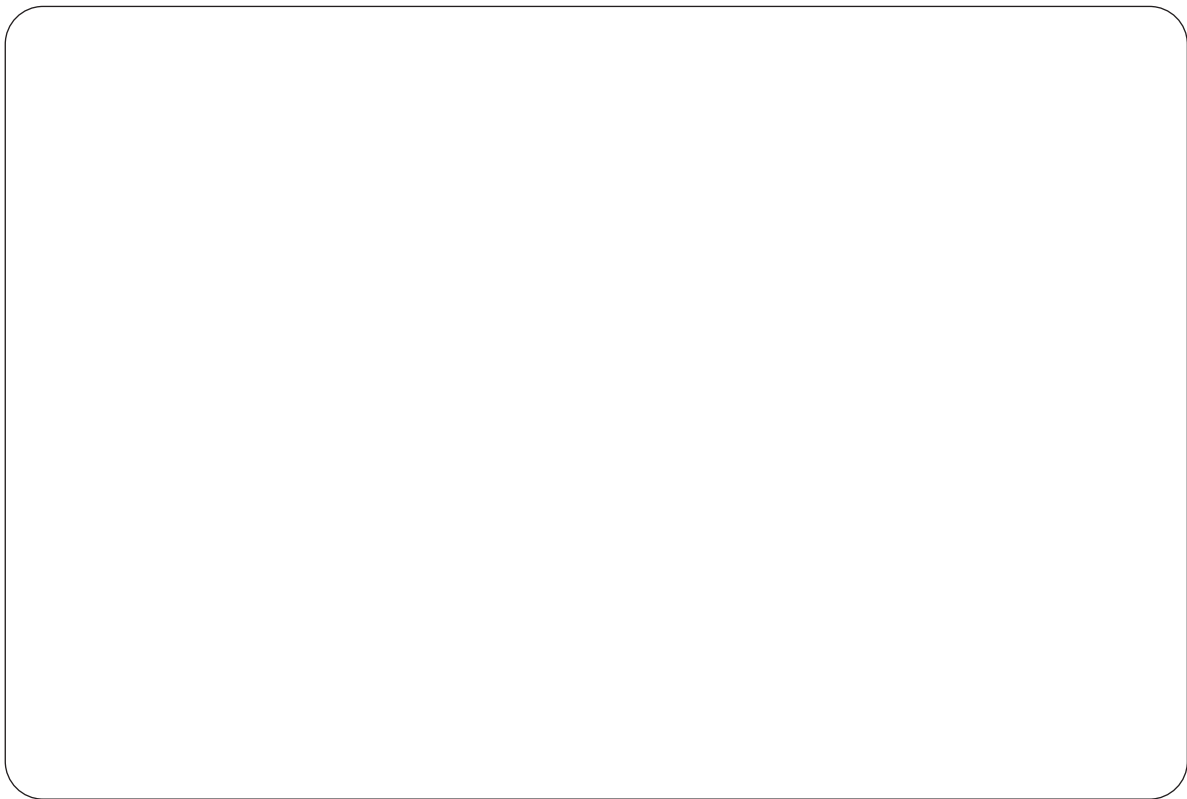
TB5 1700 - 2000 - AC 3000 - HYDRO

TB6 2300 - 3000 - AC 4000 - HYDRO

TB7 3500 - AC 3000 - AC 4000 - HYDRO

TB8 3500 - AC 5500 - AC 7500 - HYDRO

TB9 AC 11KW - HYDRO



Product serial number



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