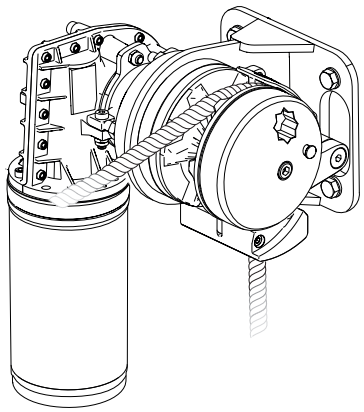
BL Series

REV 001A | CE | UK CA

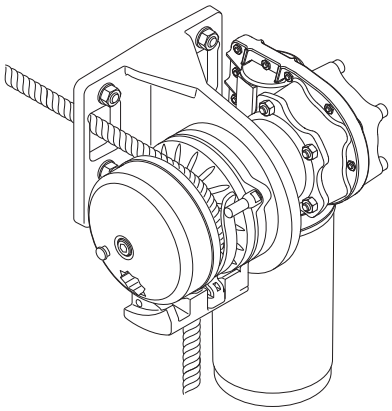
July, 2025

WINDLASS

BL2 P FF/0 Y/X 600 900 1200
BL2R P FF/0 Y/X 600 900 1200
BL3/P FF X 600 900 1200 1500

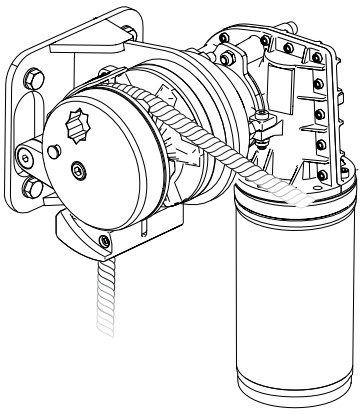


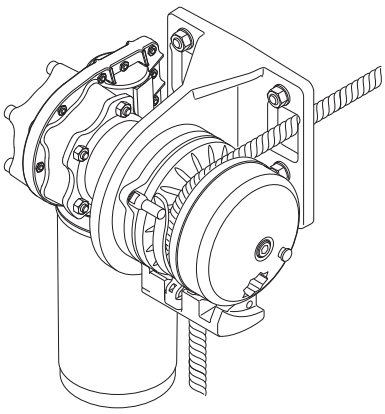
BL2 P Y/X

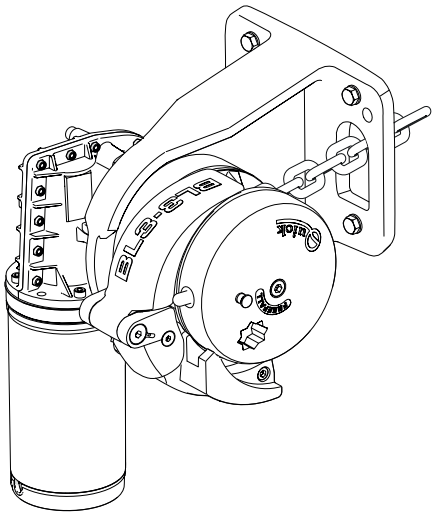


BL2R P Y/X

BL3/P X







***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.

Quick®
Nautical Equipment

INDEX

1 - Foreword

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.

BL SERIES HORIZONTAL WINDLASSES
Nautical accessory for lifting and casting the anchor.
Thanks to DC electric motors, BL Series is the range of anchor windlasses with mechanical movement.
The parts exposed to the marine environment are made entirely of stainless steel and the gypsy is made of brass alloy.
Aluminium parts such as the bracket undergo an anodising process.
The BL series includes gearboxes in technopolymer and anodised aluminium.

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2 - Important information

BL Series

This manual provides boatyards and nautical equipment installers with instructions on how to assemble the specified BL Quick® windlass 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

BL = Balder
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® windlasses are designed and manufactured to weigh the anchor.

- 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 windlass is not designed to support loads generated in particular weather conditions (storm).
- Operate the product from a position where it is possible to supervise the work area.
- Always deactivate the windlass when not being used.
- Make sure that there are no bathers nearby before dropping the anchor.
- The splice between the rope and the chain must be tightly woven for the rope to slide easily into the gypsy shape. For any problem or request, feel free to contact Quick® Technical Service.
- For improved safety, we recommend installing at least two controls to operate the windlass in case one is damaged.
- We recommend the use of Quick® switch as motor safety device.
- Secure the chain with a retainer before sailing off.
- The reversing contactor box must be installed in a position protected from any water entry.
- After completing the anchorage, secure the chain to fixed points such as chain stopper or bollard.
- To prevent accidental releases, the anchor must be secured. The windlass must not be used as sole securing device.
- Isolate the windlass 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.

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.

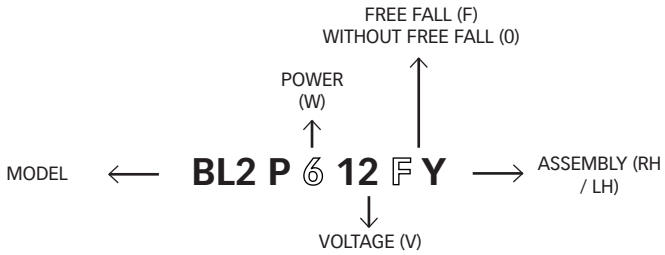
CARRY OUT INSTALLATION/MAINTENANCE WORK MAKING SURE THAT THE PRODUCT IS DISCONNECTED FROM THE ELECTRICAL SYSTEM.

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

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

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.

4.0 - Model code



4.1 - BL2 P Technical Data

MODELS	BL2 P X/Y					
MODEL POWER	**600 W**		**900 W**		**1200 W**	
Motor voltage	12 V	24 V	12 V	24 V	12 V	24v
Work load	65 kg (143.3 lb)	70 kg (485 lb)	100 kg (220.5 lb)	107 kg (235.9 lb)	140 kg (308.6 lb)	160 kg (352.7 lb)
Maximum work load	200 kg (440.9 lb)	220 kg (154.3 lb)	300 kg (661.4 lb)	320 kg (705.5 lb)	420 kg (926 lb)	480 kg (1058.2 lb)
Current consumption at work load (1)	80 A	40 A	95 A	50 A	130 A	75 A
Maximum recovery speed	28.9 m/min (94.8 ft/min)	28.2 m/min (92.5 ft/min)	22.6 m/min (74.1 ft/min)	25.3 m/min (83.0 ft/min)	31.2 m/min (102.4 ft/min)	30.1 m/min (98.7 ft/min)
Speed at work load (2)	24.3 m/min (79.7 ft/min)	24.1 m/min (79.1 ft/min)	11.6 m/min (38.1 ft/min)	14.4 m/min (47.2 ft/min)	16.5 m/min (54.1 ft/min)	19.1 m/min (62.7 ft/min)
Minimum motor cable cross section (3)	16 mm^2 (AWG5)	10 mm^2 (AWG7)	25 mm^2 (AWG7)	10 mm^2 (AWG7)	35 mm^2 (AWG2)	16 mm^2 (AWG5)
Circuit breaker (4)	60 A	40 A	50 A	40 A	80 A	50 A
Weight-model	12.3 kg (27 lb)		16.4 kg (36.1 lb)		17.6 kg (38 lb)	

(1) After an initial period of use
(2) Measurements taken with a gypsy for 8 mm chain
(3) Minimum recommended value for total length L<20 m. Determine the cable cross section according to the length of the wiring.
(4) With specific circuit breaker for direct current (DC) and delayed circuit breaker (thermal-magnetic or hydraulic-magnetic).

GYPSY (*)	6 mm		7 mm - 1/4"				8 mm		5/16"
Chain size	6 mm	6 mm	7 mm	7 mm	1/4"	1/4"	8 mm	8 mm	5/16"
	DIN 766	ISO	DIN 766	ISO (**)	BBB	G4	DIN 766	ISO (**)	G4
Rope size (5)	1/2" (12.7 mm)		1/2" (12.7 mm)				1/2" (12.7 mm)		

(5) The values in the table refer to a polyester rope featuring 3 strands with rope/chain junction according to "Quick®" system.
(*) For gypsy codes, see the exploded drawing on page 26.
(**) ISO EN 818-3.

4.2 - BL2R P Technical Data

MODELS	BL2R P X/Y					
MODEL POWER	600 W		900 W		1200 W	
Motor voltage	12 V	24 V	12 V	24 V	12 V	24v
Work load	65 kg (143.3 lb)	70 kg (154.3 lb)	100 kg (220.5 lb)	107 kg (235.9 lb)	140 kg (308.6 lb)	160 kg (352.7 lb)
Maximum work load	200 kg (441 lb)		320 kg (705 lb)		420 kg (926 lb)	
Current consumption at work load (1)	80 A	40 A	95 A	50 A	130 A	75 A
Maximum recovery speed	25-28 m/min (82-91 ft/min)		22-25 m/min (72-82 ft/min)		28-30 m/min (91-98 ft/min)	
Minimum motor cable cross section (2)	16 mm² (AWG5)	10 mm² (AWG7)	25 mm² (AWG7)	10 mm² (AWG7)	35 mm² (AWG2)	16 mm² (AWG5)
Circuit breaker (3)	60 A	40 A	50 A	40 A	80 A	50 A
Weight-model	12.4 kg (27 lb)		16.4 kg (36 lb)		17.7 kg (39 lb)	

(1) After an initial period of use
(2) Minimum recommended value for total length L<20 m. Determine the cable cross section according to the length of the wiring.
(3) With specific circuit breaker for direct current (DC) and delayed circuit breaker (thermal-magnetic or hydraulic-magnetic).

Rope size (4)	12 mm (15/32") • 14 mm (35/64") • 16 mm (5/8")

(4) Recommended rope sealed with lead. Tests carried out on Quick® polyester rope sealed with lead.

4.3 - BL3/P Technical Data

MODELS	BL3 P						BL3	
MODEL POWER	600 W		900 W		1200 W		1500 W	
Motor voltage	12 V	24 V	12 V	24 V	12 V	24v	12 V	24 V
Work load	50 kg (110.2 lb)	60 kg (132.3 lb)	80 kg (176.4 lb)	100 kg (220.5 lb)	120 kg (264.5 lb)	150 kg (330.7 lb)	160 kg (352.7 lb)	180 kg (396.8 lb)
Maximum work load	150 kg (330.7 lb)	180 kg (369.8 lb)	250 kg (551.1 lb)	300 kg (661.4 lb)	370 kg (815.17 lb)	450 kg (992.1 lb)	470 kg (1036.2 lb)	540 kg (1190.5 lb)
Current consumption at work load(1)	100 A	55 A	90 A	55 A	140 A	80 A	140 A	
Maximum recovery speed	29.2 m/min (95.8 ft/min)	26.4 m/min (86.4 ft/min)	27.4-26.4 m/min (89.9-86.6 ft/min)		36.6-40.9 m/min (120-134.2 ft/min)		29.2 m/min (95.8 ft/min)	
Speed at work load(2)	22.2 m/min (72.8 ft/min)	17.8 m/min (58.4 ft/min)	14.4 m/min (47.2 ft/min)	14.8 m/min (48.5 ft/min)	20.4 m/min (66.9 ft/min)	21.4 m/min (70.2 ft/min)	16.3 m/min (53.5 ft/ min)	19 m/min (62.3 ft/ min)
Minimum motor cable cross section(3)	16 mm² (AWG5)		25 mm² (AWG3)	16 mm² (AWG5)	35 mm² (AWG2)	16 mm² (AWG5)	50 mm² (AWG0)	25 mm² (AWG3)
Circuit breaker(4)	80 A	50 A	50 A	40 A	80 A	50 A	100 A	50 A
Weight-model	14.7 kg (32 lb)		18.8 kg (41 lb)		20 kg (44 lb)		23.8 kg (52.5 lb)	

(1) After an initial period of use.
(2) Measurements taken with a gypsy for 8 mm chain
(3) Minimum recommended value for total length L= <20 m. Determine the cable cross section according to the length of the wiring.
(4) With specific circuit breaker for direct current (DC) and delayed circuit breaker (thermal-magnetic or hydraulic-magnetic).

GYPSY (*)	6 mm		8 mm - 5/16"				10 mm - 3/8"	
Chain size	6 mm	6 mm	8 mm	8 mm	5/16"	5/16"	10 mm	3/8"
	DIN 766	ISO	DIN 766	ISO	G4	BBB	ISO (P.30)	G4
Rope size (5)	12.7 mm (1/2")		12.7 mm (1/2") • 14.2 mm (9/16") • 15.8 mm (5/8")				15.8 mm (5/8")	

(5) The values in the table refer to a polyester rope featuring 3 strands with rope/chain junction according to "Quick®" system.
(*) For gypsy codes, see the exploded drawing on page 26.
(**) The values in the table apply to the combination of rope and chain according to the Quick® system, we do not guarantee the correct operation with other anchor-rode types.

4.4 - Tightening torques

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

Values for stainless steel screws and nuts, assess tightening considering the material of the surfaces to be secured.

4.5 - Standard supply and material included in the package

- Windlass
- Remote switch or Reversing contactor box
- Lever
- Mounting bracket
- Screws (for assembly)
- Installation and user's manual, Warranty
- Drilling template

4.6 - Recommended Quick® accessories not included

- Control board
- Waterproof push-button panel (HRC 1002)
- Foot switch (900)
- Hydraulic-magnetic circuit breaker
- Control system via RRC radio (R02 - P02 - H02)
- Chain counter for anchorage (Mod.1103 - only windlass with chain)

5.0 - General instructions and precautions

Consider the weight for lifting the BL, refer to section 4 product information, sub-section “technical data” in the manual.

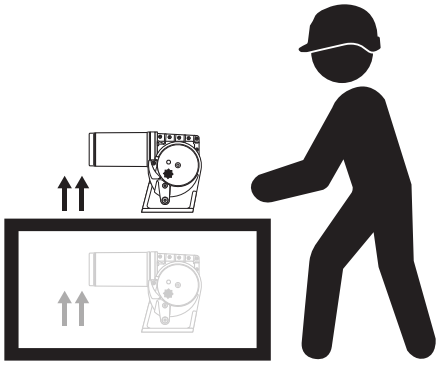
The handling and transport of the BL must be carried out by skilled personnel, capable of fastening loads correctly and in compliance with local regulations regarding work safety.

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

5.1 - Removing the box and lifting the BL Series

A. Open the box.

B. Carefully lift the BL out of the box, even without mechanical assistance, as it weighs less than 20 kg.



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

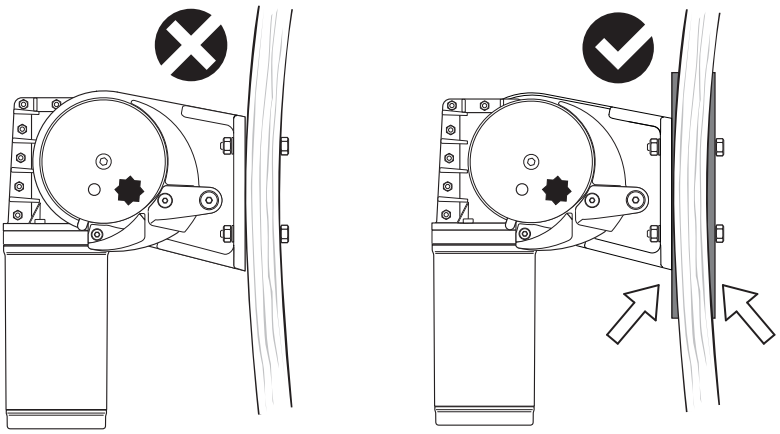
6.0 - Tools required for installation

BL2 P • Drill with bit: Ø 9 mm (23⁄64") • Hex wrench: 13 mm
BL2R P • Drill with bit: Ø 9 mm (23⁄64") • Hex wrench: 13 mm
BL3/P • Drill with bit: Ø 9 mm (23⁄64") • Hex wrench: 13 mm

6.1 - Installation requirements

A. Wall-mounting

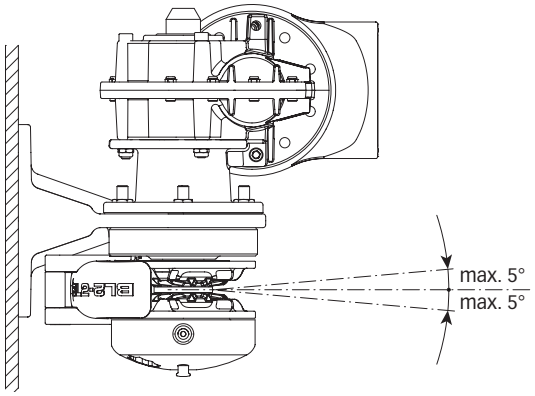
Ensure that the inner and outer surfaces of the wall are as parallel as possible. If this is not the case, compensate the difference appropriately.



Tighten nuts to the tightening torque specified in the table (chap. 4.4 on page 9).

B. Checking maximum angular misalignment

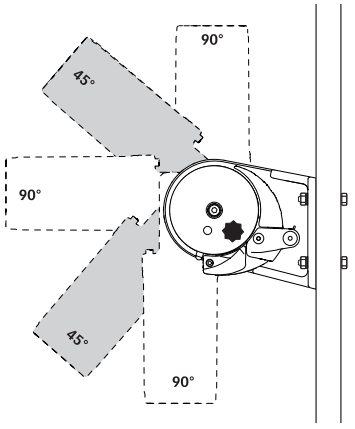
Check that the angular misalignment between the gypsy and the anchor is no more than 5° (see image opposite).



C. Motor gearbox position

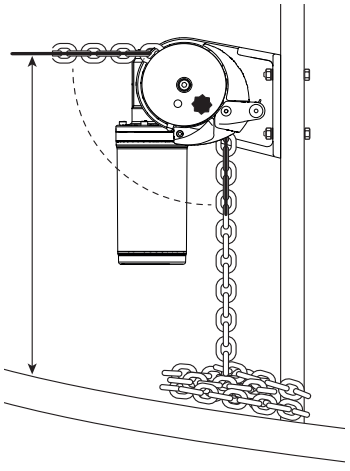
Depending on the type of motor gearbox, a rotation every 45° or 90° is possible. Depending on the available space.

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



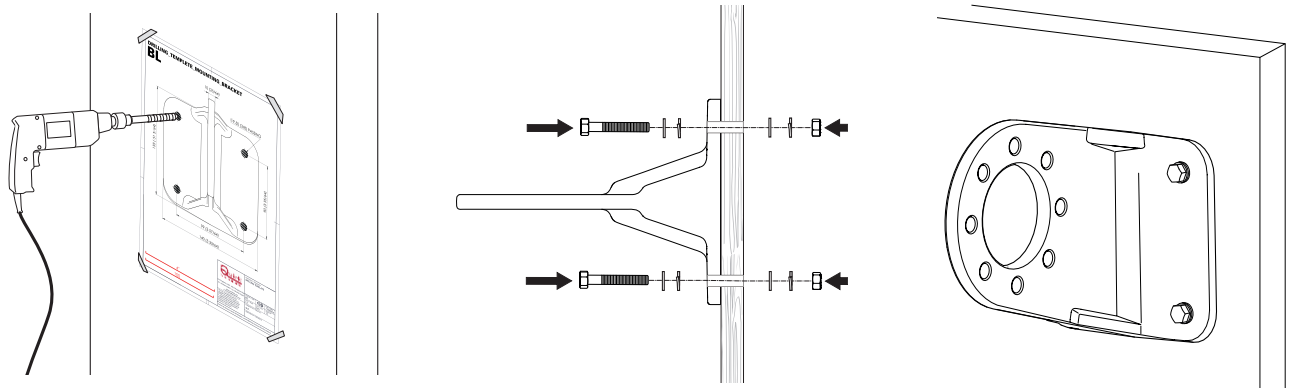
D. CHAIN POSITION & PEAK DEPTH

Ensure that the chain falls in a vertical line. Take care not to damage the sensor cables during installation. There must be no obstacles to the passage of cables, rope and chain under deck. Insufficient depth of the peak could cause jamming. Ensure chain winding at 90° ±10°.



6.2 - Installation procedure

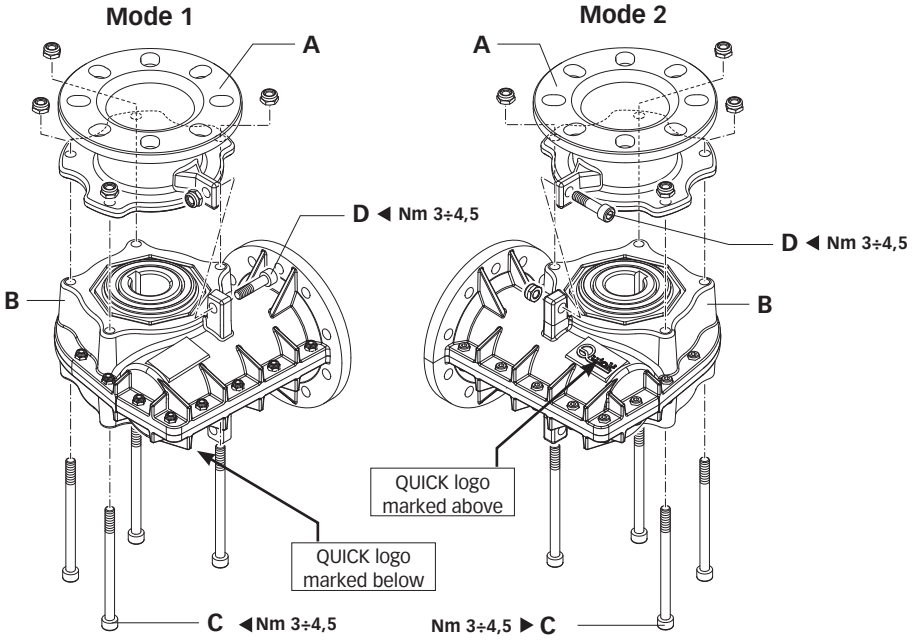
Identify the ideal position and drill the holes using the drilling template supplied.



The pictures on this page are purely generic and do not represent a specific model.

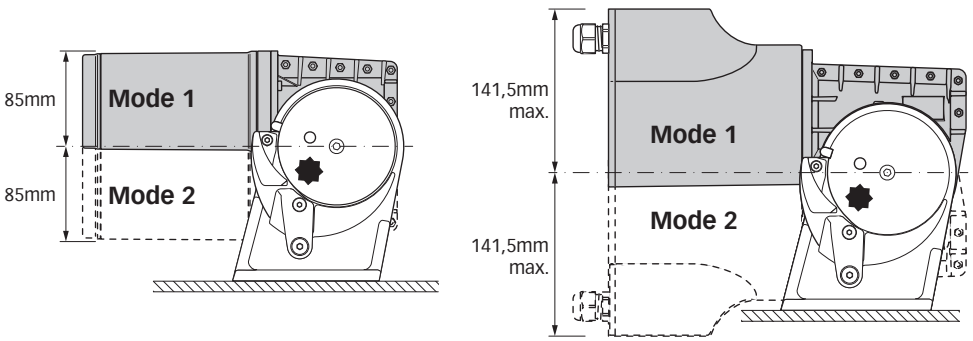
6.3 - Flange mounting

Flange **A** can be fixed on both sides of gearbox **B**.
The product is supplied assembled at the factory according to **mode 1**; if necessary, it can be assembled according to **mode 2**, for example due to geometric interference with the peak.



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**.

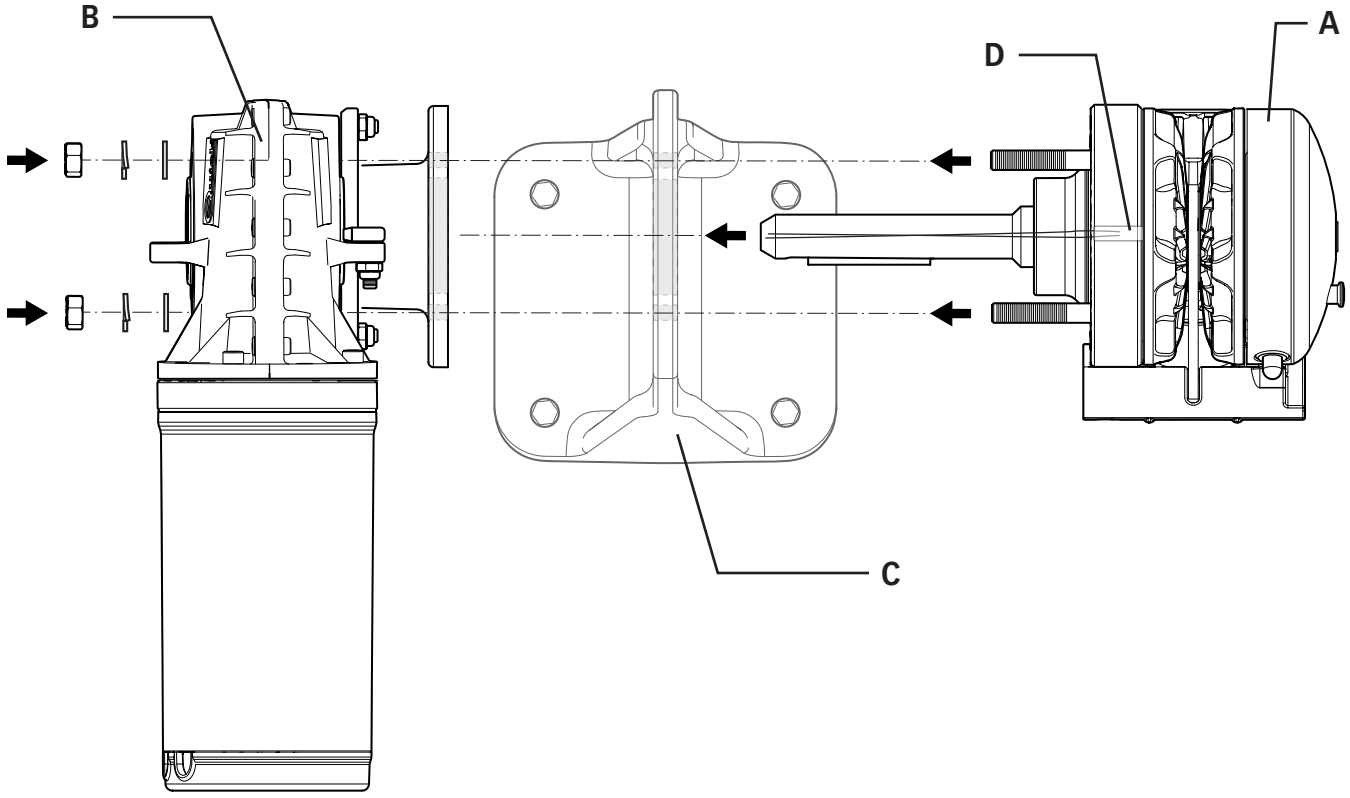
The two modes allow greater versatility in mounting the motorgearbox, while maintaining the same overall dimensions.



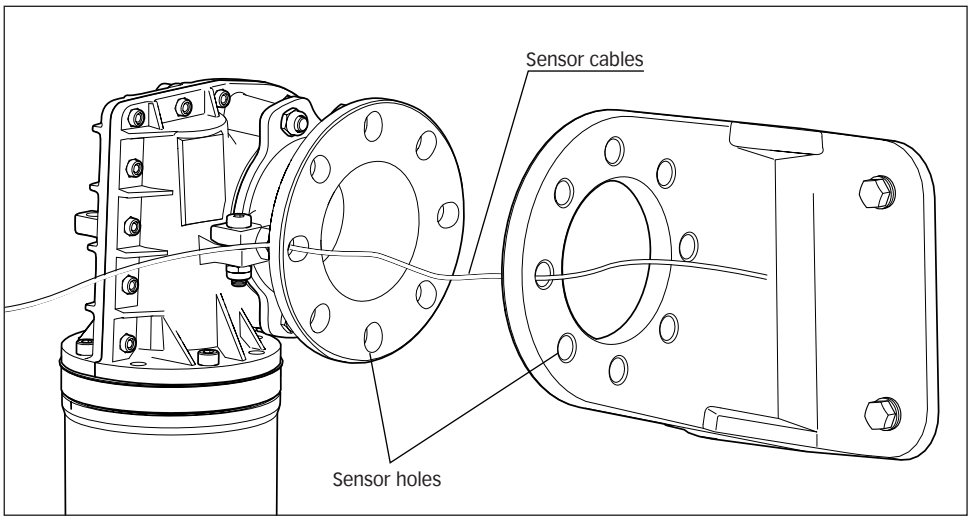
WARNING: before connecting the equipment, make sure that cables are not live.

Assemble the Top (**A**) and gearbox (**B**), inserting shaft in the mounting bracket (**C**), previously secured to the wall.

Fix the windlass by screwing the nuts onto the fixing studs (for tightening torques, see chap. 4.4 on page 9).

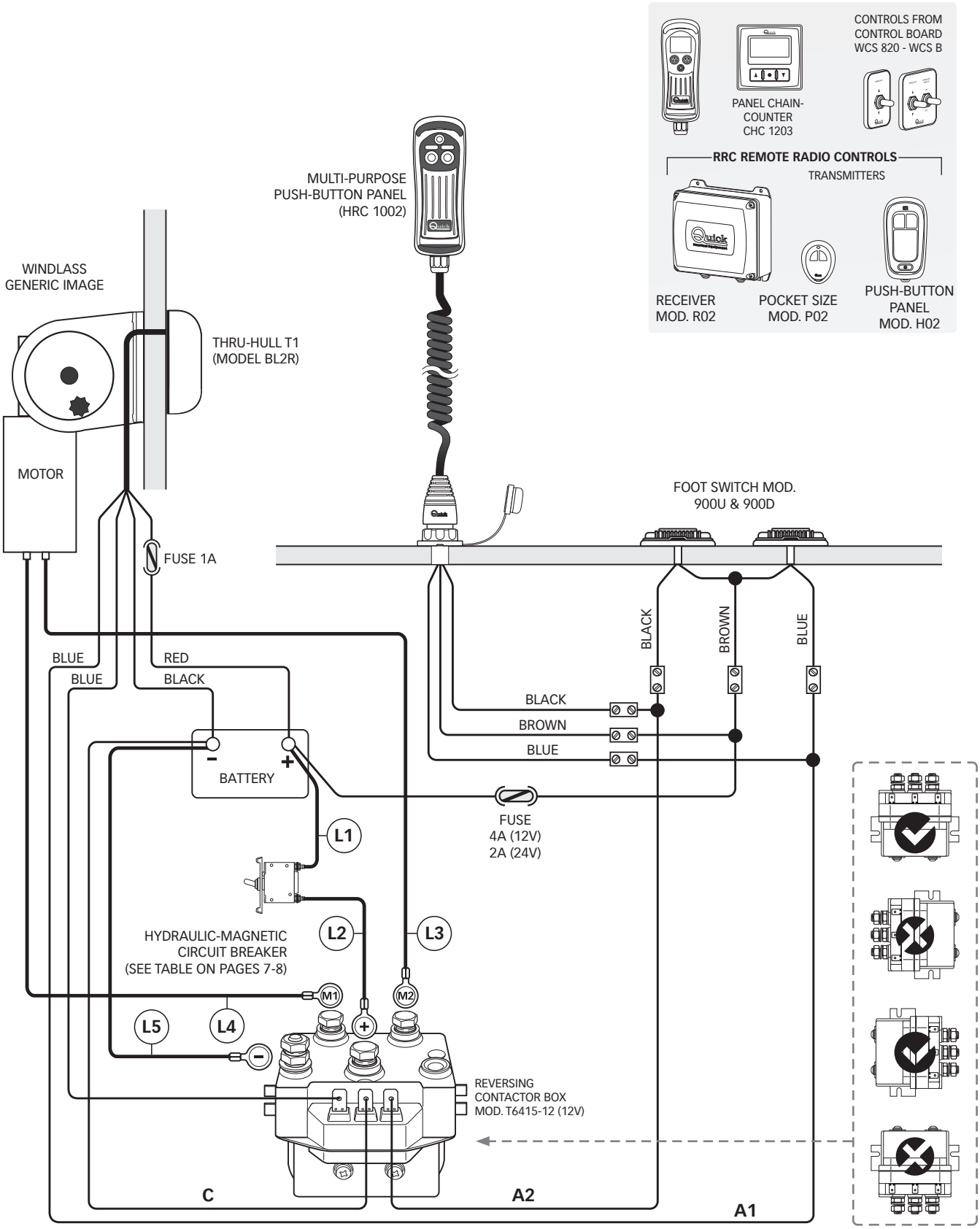


When assembling the top and gearbox, run the sensor cables (D) through the holes in the bracket and gearbox. **TAKE CARE NOT TO DAMAGE THE SENSOR CABLES DURING INSTALLATION.**



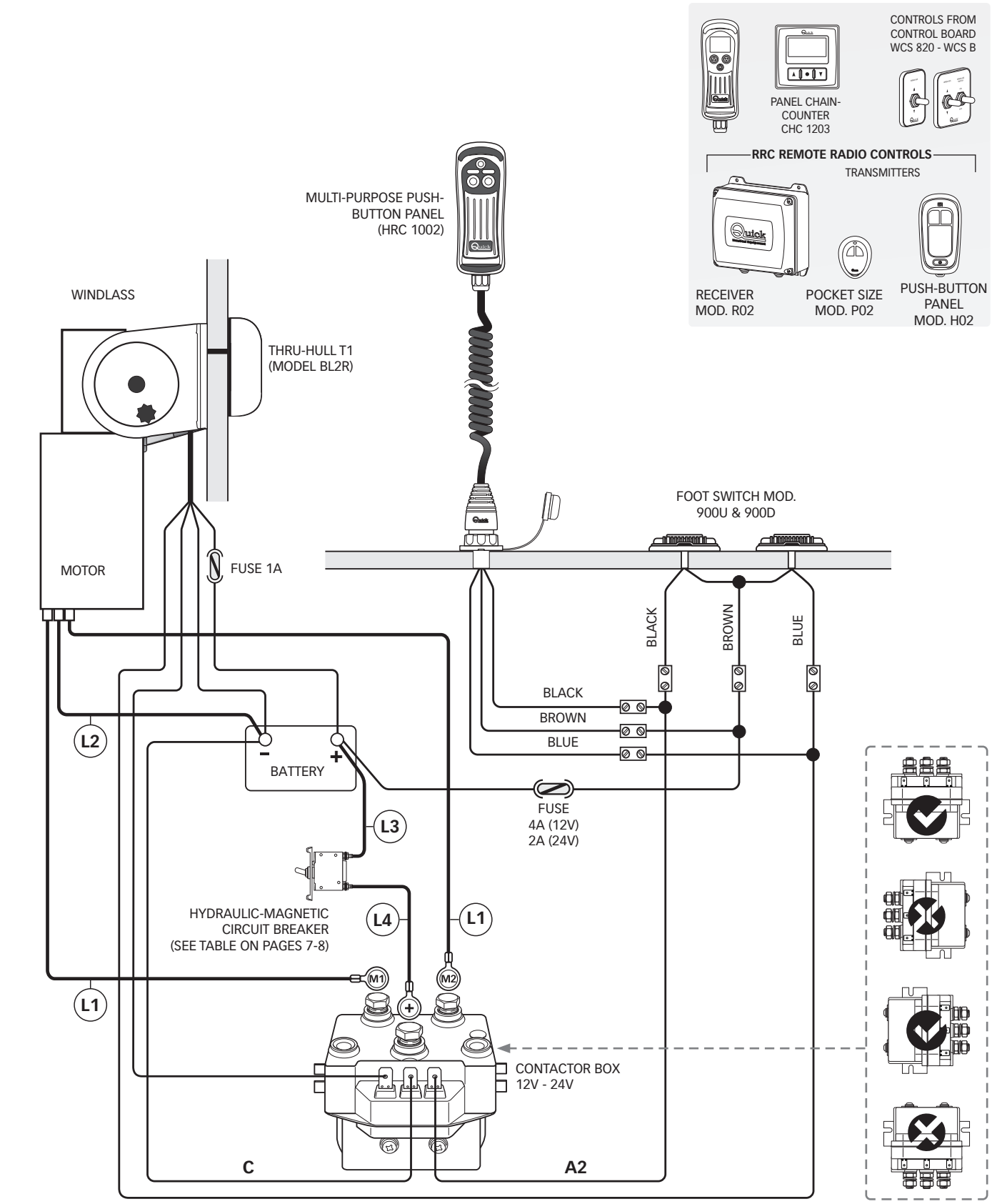
ELECTRIC MOTOR: Connect the supply cables and sensor cable from the windlass to the remote switch/reversing contactor unit (See connection diagram on pages 14-15).

7.0 - Base system BL2 P/BL2R P/BL3 P 600W



L = (L1) + (L2) + (L3) + (L4) + (L5)

7.1 - Base system BL2 P/BL2R P/BL3 P 900/1200W BL3 1500W



L = (L1) + (L2) + (L3) + (L4)

8.0 - Automatic free fall system

WARNING: the automatic system must be activated or deactivated with the clutch closed (engaged) in order to avoid possible malfunctions of the electromechanical parts.

TURNING THE AUTOMATIC FREE FALL SYSTEM ON
This procedure activates the automatic free fall system.

- Turn cover (**A**) until hole for pin (**B**) is facing up (as in fig. 1).
- Cut windlass power supply.
- Lock chain using a stopper.
- Pull knob (**C**) until pin (**B**) comes fully out (as in fig.2).
- Ensure clutch is closed (engaged).
- Release the chain.
- Restore windlass power supply.

By holding down the DOWN button of the control at your disposal, the clutch is opened (disengaged) and the gypsy rotates freely in relation to its axis.
By holding down the UP button of the control at your disposal, the clutch is closed (engaged) and the gypsy stays fixed to its axis.

Casting the anchor with automatic free fall system
With the automatic system activated, press and hold the DOWN button of the control at your disposal until the point where the anchor can free fall without any constraints, then release the button.

To slow or stop the anchor's fall, press and hold the UP button on the control at your disposal until the desired effect is obtained.

Weighing the anchor with automatic free fall system
Carry out the procedure as described in the paragraph USE - WEIGHING THE ANCHOR.

TURNING THE AUTOMATIC FREE FALL SYSTEM OFF
This procedure deactivates the automatic free fall system.

- Turn cover (**A**) until hole for pin (**B**) is facing up (as in fig. 1).
- Cut windlass power supply.
- Lock chain using a stopper.
- Using a suitable tool, press pin (**B**) towards gypsy centre (as in fig. 3).
- Ensure clutch is closed (engaged).
- Release the chain.
- Restore windlass power supply.

With the automatic free fall system deactivated, the chain can only be lowered with electrical drive or manually (see section CAUTIONS & USE - CLUTCH USE).

FIG.1

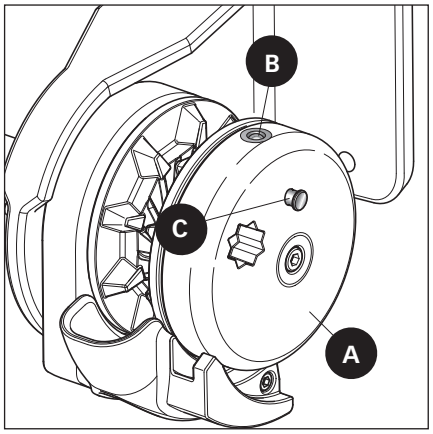


FIG.2

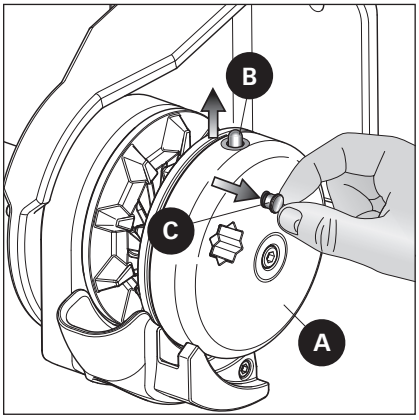
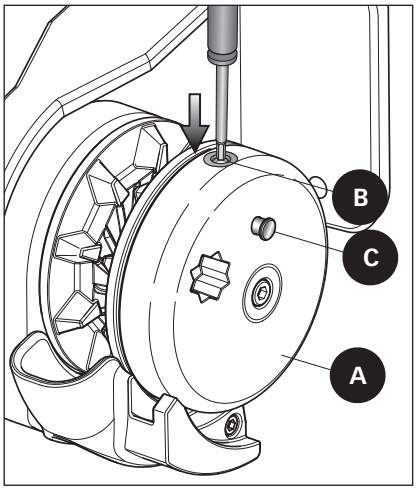
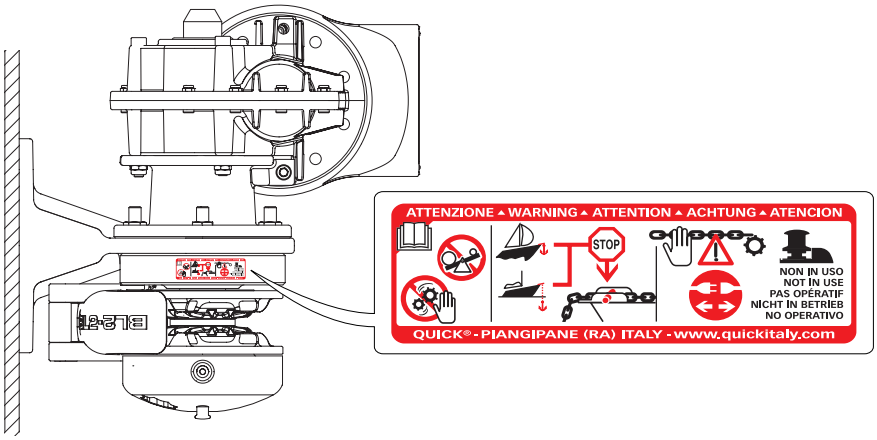


FIG.3



9.0 - Important cautions



DO NOT place any part of your body or objects near the chain and gypsy sliding area.

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

Make sure the electric motor is not powered when the windlass is used manually (even when using the handle to disengage the clutch), because people with windlass remote controls (remote push-button panel or radio control) might accidentally operate it.

Secure the chain with a retainer before sailing off.

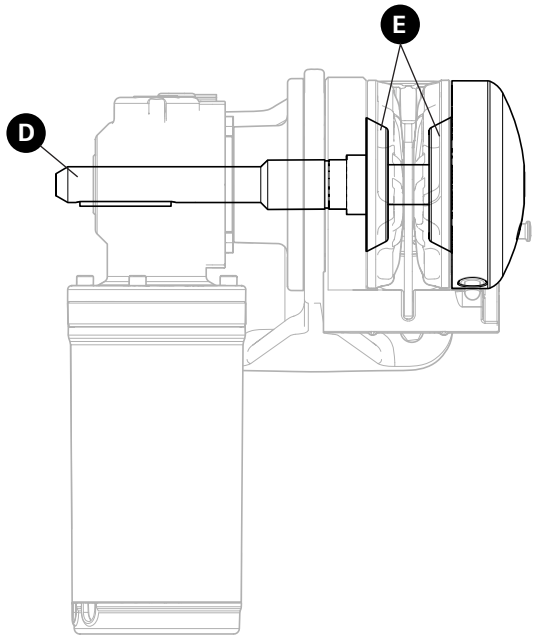
DO NOT operate the windlass by using the electrical power when the handle is inserted into the gypsy cover.

Quick® recommends using a suitable power fuse/thermal-magnetic/hydraulic-magnetic protection for the motor used, to protect the motor from overheating or short circuits.
The circuit breaker can be used to isolate the windlass control circuit, thus avoiding accidental activation.

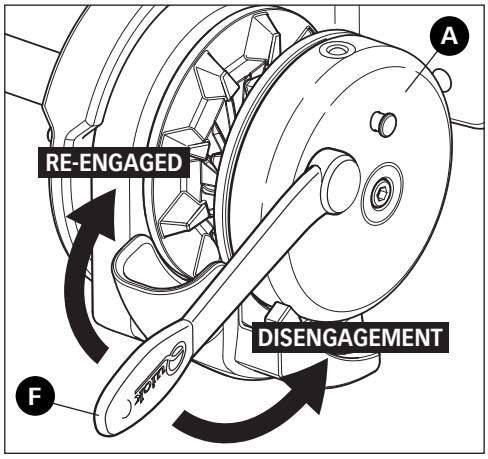
The circuit breaker can be used to isolate the windlass control circuit, thus avoiding accidental activation.

9.1 - Clutch use

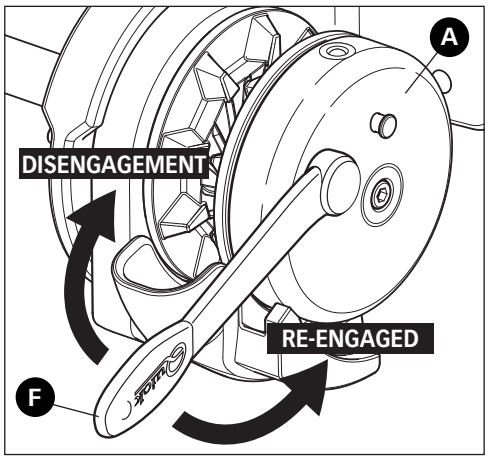
The clutch (**E**) provides a link between the gypsy and the main shaft (**D**).
The clutch can be released (disengagement) by using handle (**F**) which, when inserted into the gypsy cover (**A**), must be turned COUNTER-CLOCKWISE. The clutch will be re-engaged by turning it CLOCKWISE.



Mod. BL2 P X • BL2R P X



Mod. BL2 P Y • BL2R P Y



WEIGHING THE ANCHOR

1. Turn on the boat engine.
2. Make sure the clutch is engaged and remove the handle.
3. Press the UP button on the control provided.(*).

Check the upward movement of the chain for the last few meters in order to avoid damage to the bow.

CASTING THE ANCHOR
The anchor can be cast by using the electrical controls or manually.
A. MANUALLY
The clutch must be disengaged allowing the gypsy to revolve and letting the chain or rope fall into the water.
To slow down the chain, the handle must be turned counter-clockwise.
B. ELECTRICALLY
To cast the anchor by using the electrical power, press the DOWN button on the control provided. In this manner, anchor casting is under control and the chain unwinds evenly.

In order to avoid any stress on the windlass once the boat is anchored, fasten the chain or secure it to a safe point by means of a rope.

9.2 - Troubleshooting

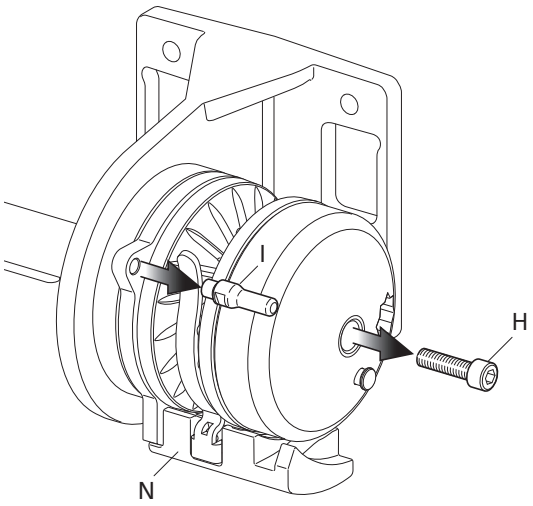
(*) If the windlass stops and the hydraulic magnetic (or thermal magnetic) switch has not tripped, wait a few seconds and try again (avoid keeping the button pressed).

If the hydraulic magnetic switch, has tripped, reset it and wait a few minutes before weighing anchor once again.

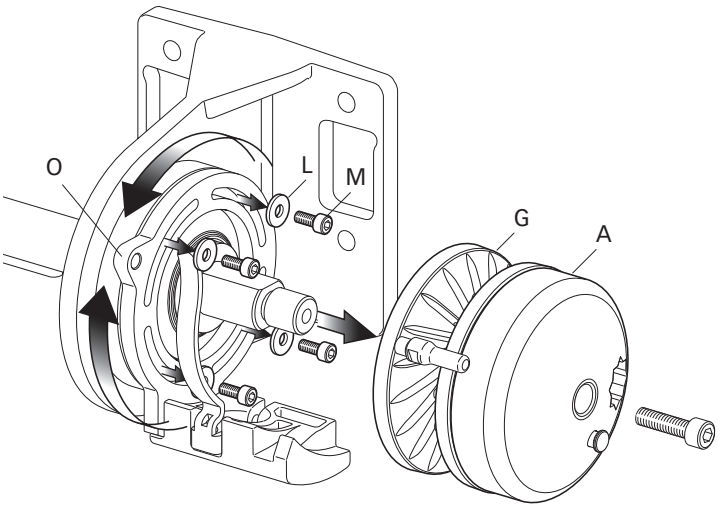
If, after a number of attempts, the windlass is still blocked, we suggest to move the boat to release the anchor.

9.3 - BL2R P rope fall positioning

Depending on how the windlass is mounted, the rope can be at different angles.
The procedure for adjusting the rope guide support (**N**) at the rope exit is described below.



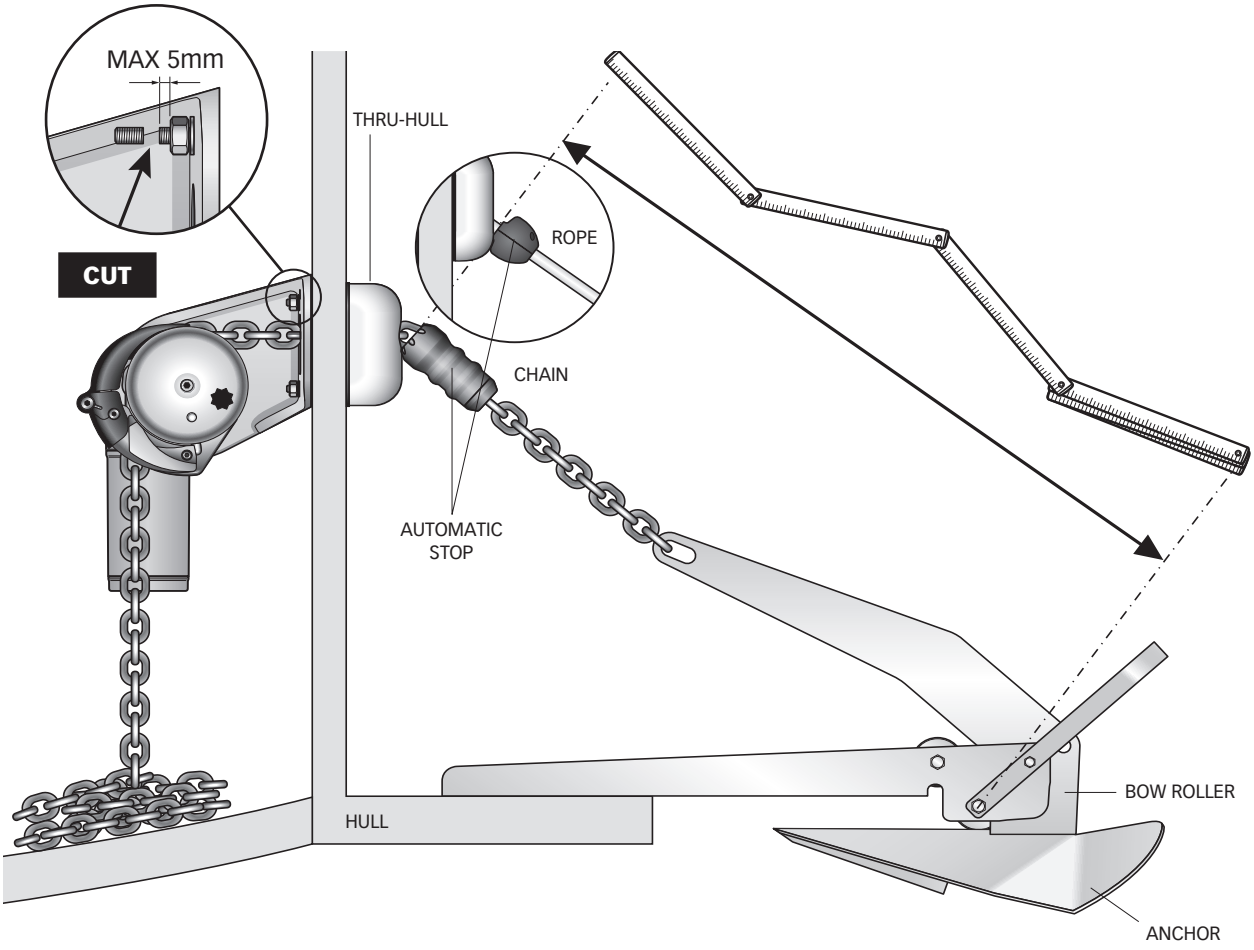
Unscrew and remove the pin (**I**) and screw (**H**).

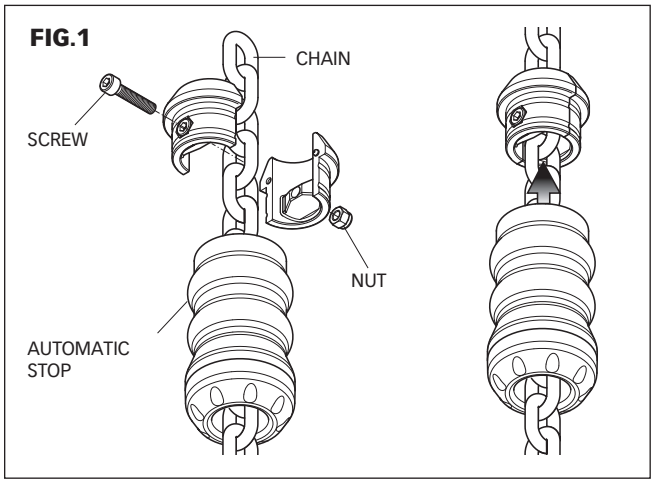


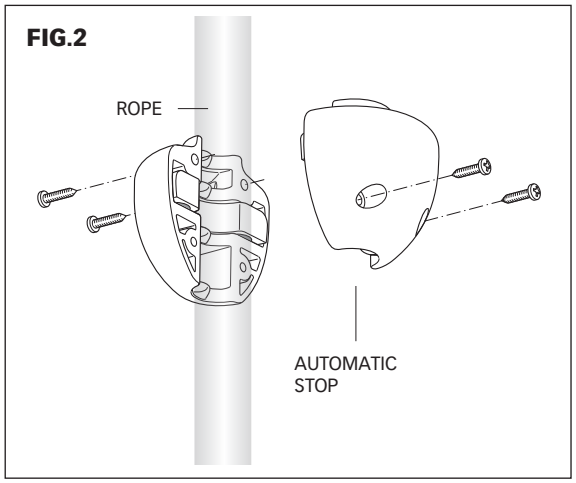
Loosen and remove the gypsy cover (**A**) and the gypsy (**G**). Unscrew and remove the 4 screws (**M**) and their washers (**L**), then rotate the base plate (**O**) to the desired position.

9.4 - Fixing the automatic stop to the chain/rope

- Weigh the anchor until it locks into the Bow Roller.
- With the rope/chain tensioned, position the Automatic Stop as close as possible to the thru-hull, measure the distance between the Automatic Stop and the Bow Roller pin.
- At the designated point on the rope/chain, secure the Automatic Stop (chain/rope fig. 1, with the screw and nut) - (rope fig. 2, with the 4 screws).







10 - Maintenance

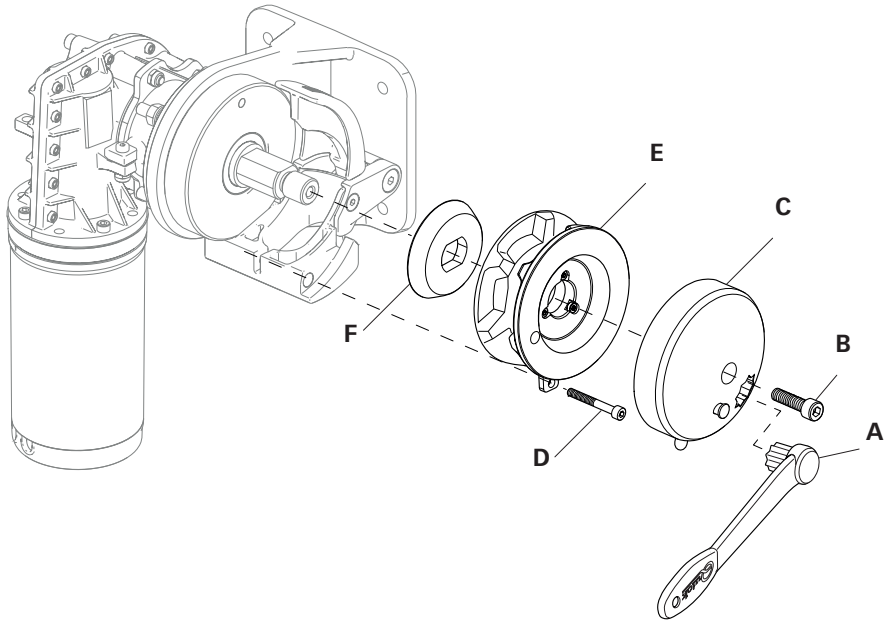
WARNING: make sure the electrical power to the motor is switched off when working manually on the windlass. Carefully remove the chain from the gypsy.

Quick® products 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.

Once a year, disassemble the gypsy according to the following sequence (fig.3):

- Use the lever (**A**) to unscrew the gypsy cover (**C**); unscrew the screw (**B**) and remove the gypsy cover. Unscrew the retaining screw (**D**) of the chain stripper and remove it; pull out the gypsy (**E**).
- Clean all the parts removed to avoid corrosion, and grease (with marine grease) the shaft thread and the gypsy where the clutch cone (**F**) rests.
- Remove any oxide deposits from the terminals of the remote switch or reversing contactor unit; grease them.

FIG.3



11 - Product disposal

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.

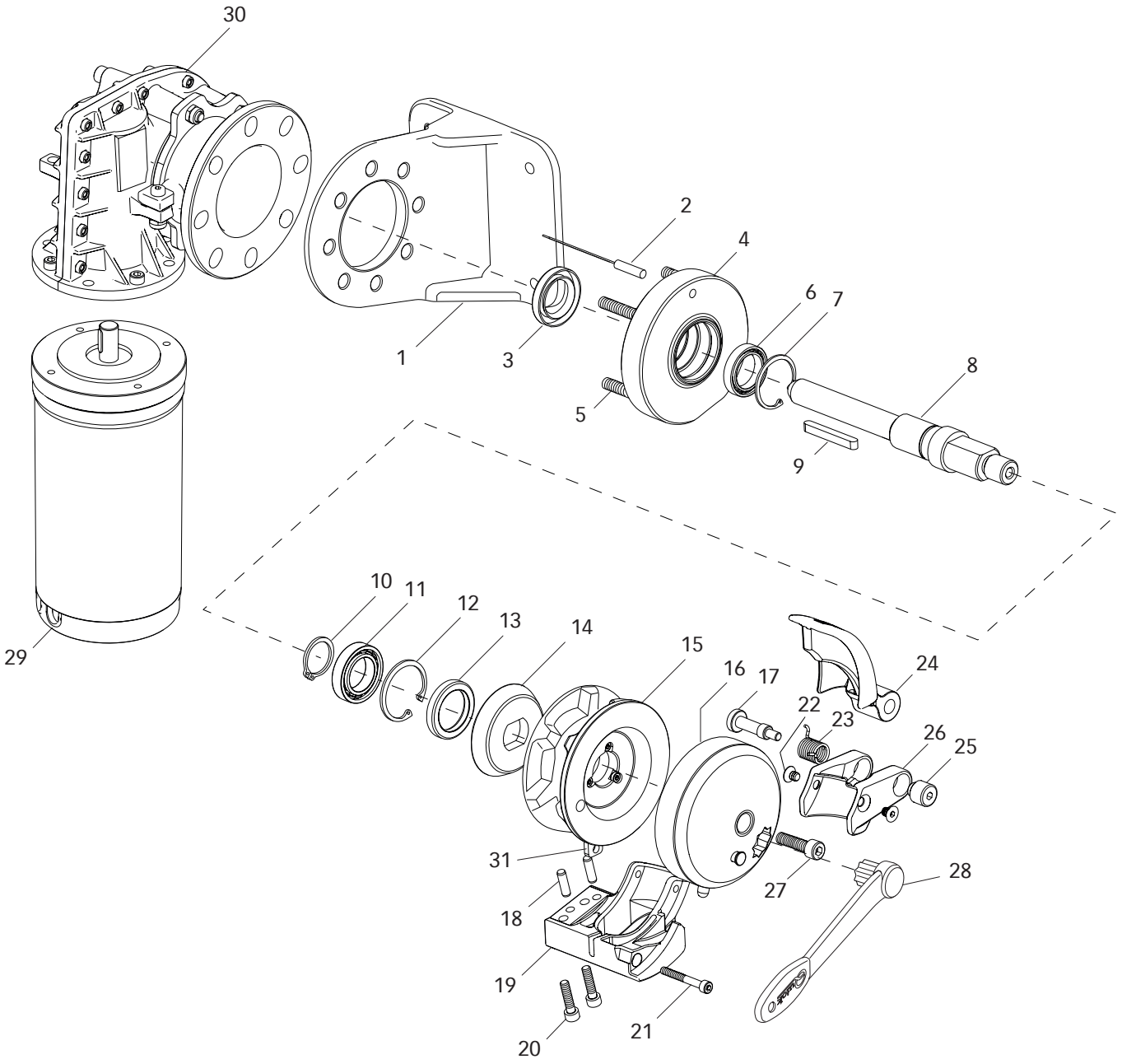
For EU countries

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

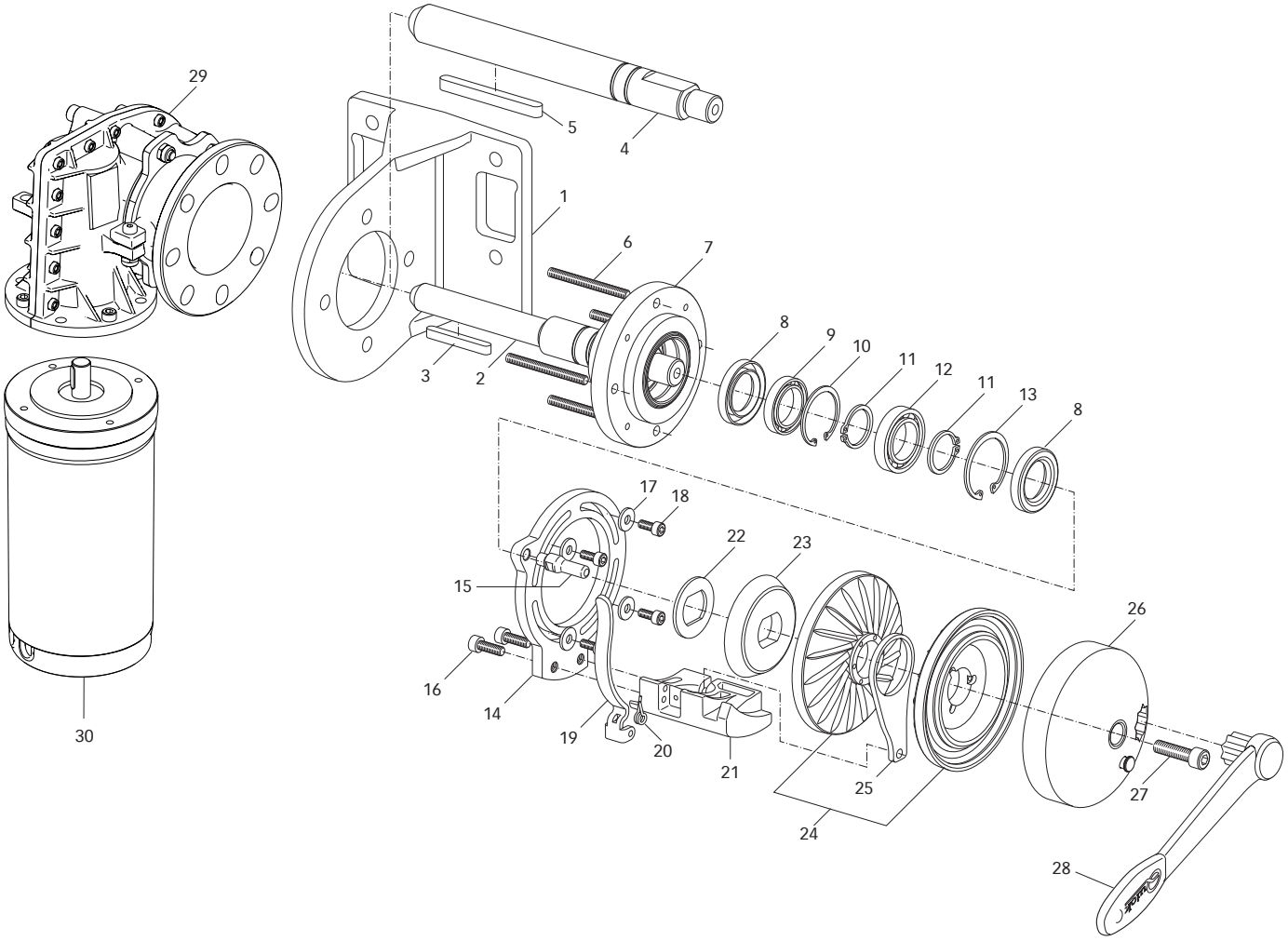
Dispose of the equipment in accordance with the applicable waste electrical and electronic equipment regulations.

12.0 - BL2 P exploded drawing



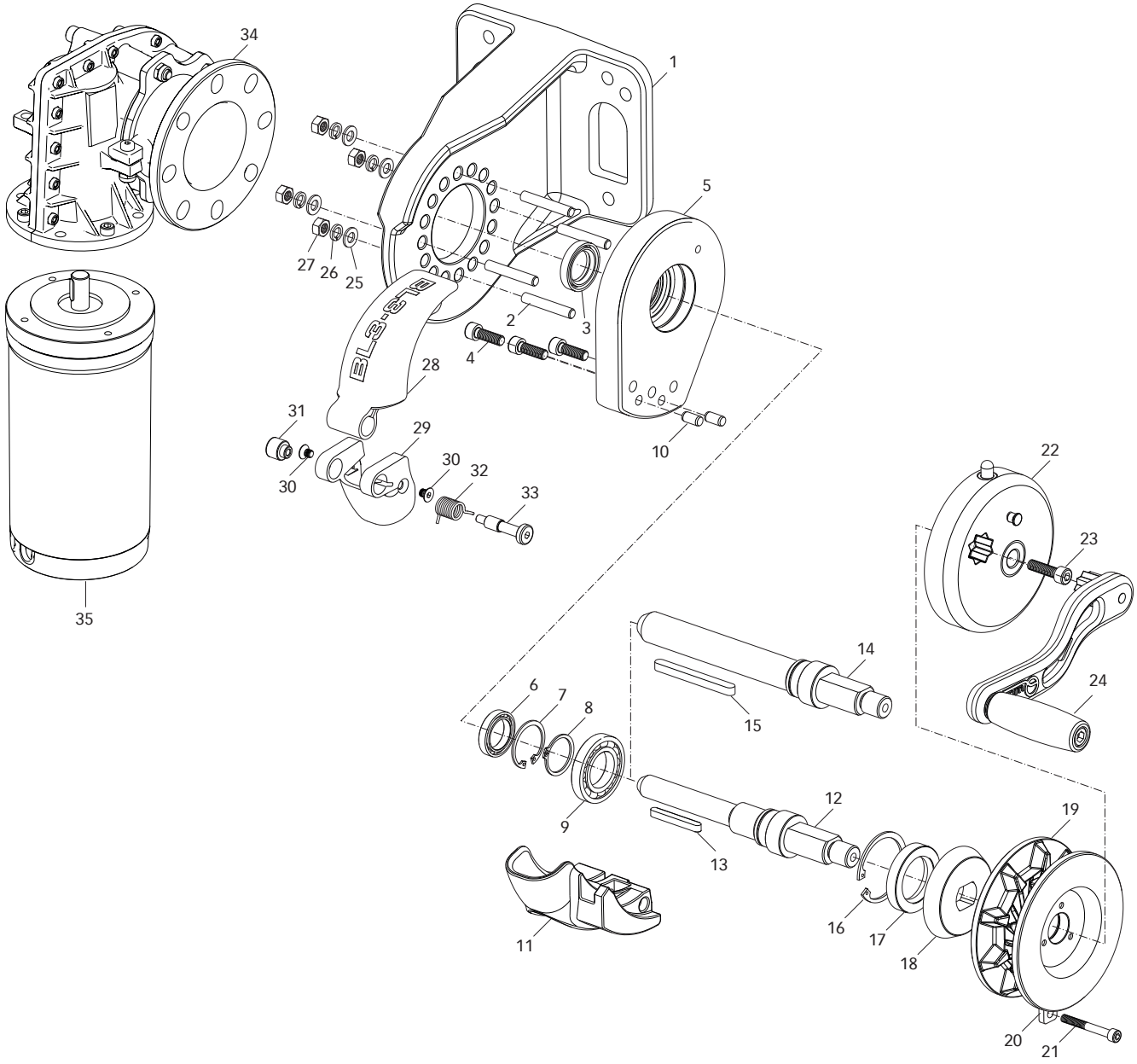
POS.	NAME
1	MOUNTING BRACKET
2	SENSOR
3	OIL SEAL
4	BASE BL2 P
5	STUDS
6	BEARING
7	INTERNAL SNAP RING
8 A	SHAFT BL2 P 600W
8B	SHAFT BL2 P 900W/1200W
9 A	KEY BL2 P 600W
9B	KEY BL2 P 900W/1200W
10	EXTERNAL SNAP RING
11	BEARING
12	INTERNAL SNAP RING
13	OIL SEAL
14	WINDLASS CLUTCH CONE
15	GYPSY
16 A	GYPSY COVER FF
16B	GYPSY COVER NO FF
17	PRESSURE LEVER PIN
18	PIN
19	CHAIN GUIDE SUPPORT
20	SCREW
21	SCREW
22	SCREW
23	PRESSURE LEVER SPRING
24	PRESSURE LEVER
25	PRESSURE LEVER NUT
26	PRESSURE LEVER GUIDE SUPPORT
27	SCREW
28	LEVER
29	MOTOR
30	GEARBOX
31	CHAIN STRIPPER

12.1 - BL2R P exploded drawing



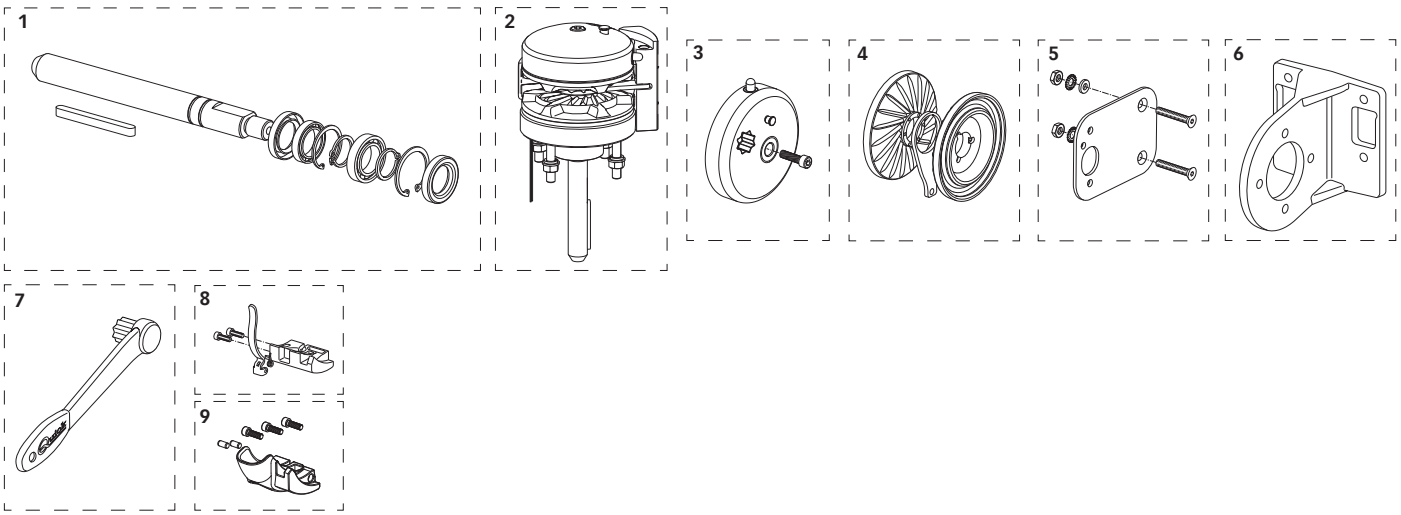
POS.	NAME
1	MOUNTING BRACKET
2	SHAFT "BL2R P" 600W
3	KEY "BL2R P" 600W
4	SHAFT "BL2R P" 900W/1200W
5	KEY "BL2R P" 900W/1200/W
6	STUD
7	BASE "BL2R P"
8	OIL SEAL
9	BEARING
10	INTERNAL SNAP RING
11	EXTERNAL SNAP RING
12	BEARING
13	INTERNAL SNAP RING
14	BASE SS SHEET
15	PRESSURE LEVER LOCK PIN
16	SS SCREW
17	SS WASHER
18	SS SCREW
19	PRESSURE LEVER "BL2R P"
20	PRESSURE LEVER SPRING
21	ROPE GUIDE SUPPORT "BL2R P"
22	REINFORCING WASHER
23	WINDLASS CLUTCH CONE
24	GYPSY
25	CHAIN STRIPPER
26 A	GYPSY COVER FF
26B	GYPSY COVER NO FF
27	SS M SCREW
28	STRAIGHT WINDLASS LEVER - NYLON
29	GEARBOX
30	MOTOR

12.2 - BL3/P exploded drawing

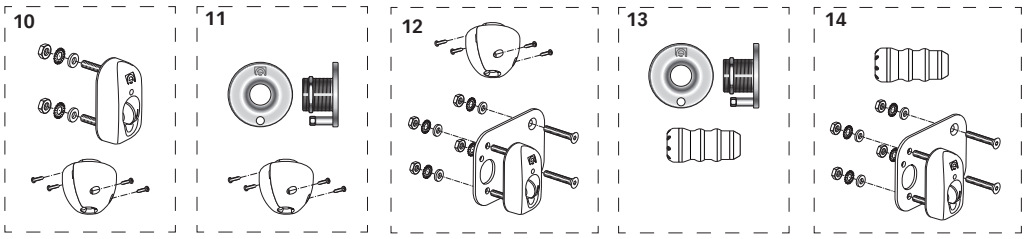


POS.	NAME
1	MOUNTING BRACKET
2	STUD
3	OIL SEAL
4	SCREW
5	BASE "BL3/P"
6	BEARING
7	INTERNAL SNAP RING
8	EXTERNAL SNAP RING
9	BEARING
10	PIN
11	CHAIN GUIDE SUPPORT "BLD" RH SS
12	SHAFT "BL3/P" 600W
13	KEY
14	SHAFT "BL3/P" 900/1200/1500W
15	KEY
16	INTERNAL SNAP RING
17	OIL SEAL
18	WINDLASS CLUTCH CONE
19	GYPSY
20	STAINLESS STEEL CHAIN STRIPPER
21	SCREW
22	GYPSY COVER FF COMPLETE
23	SS SCREW
24	CURVED WINDLASS LEVER
25	WASHER
26	GROWER
27	NUT
28	PRESSURE LEVER
29	LEVER SUPPORT
30	SCREW
31	PRESSURE LEVER NUT
32	PRESSURE LEVER SPRING
33	PRESSURE LEVER SCREW
34	GEARBOX
35	MOTOR

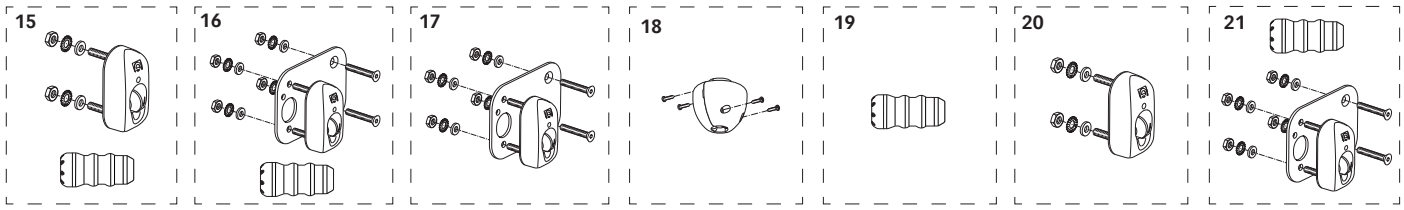
13 - Spare parts



ROPE KIT



CHAIN KIT

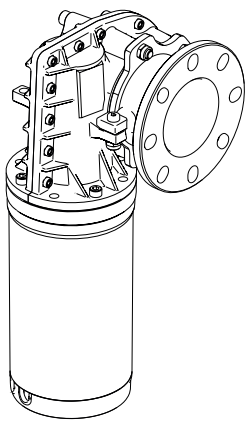


POS.	NAME	
1 A	OSP SHAFT KIT BL2 600W Y	FVSSABL2YC0SA00
1B	OSP SHAFT KIT BL2 900/1200W Y	FVSSABL2YC0LA00
1C	OSP SHAFT KIT BL2 600W X	FVSSABL2XC0SA00
1D	OSP SHAFT KIT BL2 900/1200W X	FVSSABL2XC0LA00
1E	OSP SHAFT KIT BL2R 600W Y	FVSSABL2Y00SA00
1F	OSP SHAFT KIT BL2R 900/1200W Y	FVSSABL2Y00LA00
1G	OSP SHAFT KIT BL2R 600W X	FVSSABL2000SA00
1H	OSP SHAFT KIT BL2R 900/1200W X	FVSSABL2000LA00
1I	OSP SHAFT KIT BL3 X 600W	FVSSABL3000SA00
1J	OSP SHAFT KIT BL3 X 9/12/1500W	FVSSABL3000LA00
2 A	OSP TOP BL2 F 600W 5/16" Y	FVSSTBL2F6Y5A00
2B	OSP TOP BL2 F 600W 6MM Y	FVSSTBL2F6Y6A00
2C	OSP TOP BL2 F 600W 1/4" Y	FVSSTBL2F6Y7A00
2D	OSP TOP BL2 F 600W 8MM Y	FVSSTBL2F6Y8A00
2E	OSP TOP BL2 Y 600W 5/16"	FVSSTBL206Y5A00
2F	OSP TOP BL2 Y 600W 6MM	FVSSTBL206Y6A00
2G	OSP TOP BL2 Y 600W 1/4"	FVSSTBL206Y7A00
2H	OSP TOP BL2 Y 600W 8MM	FVSSTBL206Y8A00
2I	OSP TOP BL2 F 600W 5/16" X	FVSSTBL2F6X5A00
2J	OSP TOP BL2 F 600W 6MM X	FVSSTBL2F6X6A00
2K	OSP TOP BL2 F 600W 1/4" X	FVSSTBL2F6X7A00
2L	OSP TOP BL2 F 600W 8MM X	FVSSTBL2F6X8A00
2M	OSP TOP BL2 X 600W 5/16"	FVSSTBL206X5A00
2N	OSP TOP BL2 X 600W 6MM	FVSSTBL206X6A00
2O	OSP TOP BL2 X 600W 1/4"	FVSSTBL206X7A00
2P	OSP TOP BL2 X 600W 8MM	FVSSTBL206X8A00
2Q	OSP TOP BL2 F 9/1200W 5/16" Y	FVSSTBL2F9Y5A00
2R	OSP TOP BL2 F 9/1200W 6MM Y	FVSSTBL2F9Y6A00
2S	OSP TOP BL2 F 9/1200W 1/4" Y	FVSSTBL2F9Y7A00
2T	OSP TOP BL2 F 9/1200W 8MM Y	FVSSTBL2F9Y8A00
2U	OSP TOP BL2 Y 9/1200W 5/16"	FVSSTBL209Y5A00
2 V	OSP TOP BL2 Y 9/1200W 6MM	FVSSTBL209Y6A00
2 W	OSP TOP BL2 Y 9/1200W 1/4"	FVSSTBL209Y7A00
2X	OSP TOP BL2 Y 9/1200W 8MM	FVSSTBL209Y8A00
2Y	OSP TOP BL2 F 9/1200W 5/16" X	FVSSTBL2F9X5A00
2Z	OSP TOP BL2 F 9/1200W 6MM X	FVSSTBL2F9X6A00
2AA	OSP TOP BL2 F 9/1200W 1/4" X	FVSSTBL2F9X7A00
2BA	OSP TOP BL2 F 9/1200W 8MM X	FVSSTBL2F9X8A00
2CA	OSP TOP BL2 X 9/1200W 5/16"	FVSSTBL209X5A00
2DA	OSP TOP BL2 X 9/1200W 6MM	FVSSTBL209X3A00
2EA	OSP TOP BL2 X 9/1200W 1/4"	FVSSTBL209X7A00
2FA	OSP TOP BL2 X 9/1200W 8MM	FVSSTBL209X8A00
2 GA	OSP TOP BL2 R F 600W ROPE X	FVSSTBLD0600A00
2HA	OSP TOP BL2 R F 600W ROPE Y	FVSSTBLD060YA00
2IA	OSP TOP BL2 R 600W ROPE X	FVSSTBLD06N0A00
2JA	OSP TOP BL2 R 600W ROPE Y	FVSSTBLD06NYA00
2 KA	OSP TOP BL2 R F 9/1200W ROPE X	FVSSTBLD1000A00
2LA	OSP TOP BL2 R F 9/1200W ROPE Y	FVSSTBLD10Y0A00
2 MA	OSP TOP BL2 R 9/1200W ROPE X	FVSSTBLD100NA00
2NA	OSP TOP BL2 R 9/1200W ROPE Y	FVSSTBLD10YNA00
2OA	OSP TOP BL3 X 600W 6MM	FVSSTBL3S006A00
2PA	OSP TOP BL3 X 600W 8MM-5/16"	FVSSTBL3S008A00
2QA	OSP TOP BL3 X 600W 10MM-3/8"	FVSSTBL3S010A00

2RA	OSP TOP BL3 X 9/12/1500W 6MM	FVSSTBL3L006A00
2SA	OSP TOP BL3 X 9/12/1500W 8MM-5/16"	FVSSTBL3L008A00
2TA	OSP TOP BL3 X 9/12/1500W 10MM-3/8"	FVSSTBL3L010A00
3 A	OSP GYPSY COVER FF Ø105MM	FVSSCPBBGFF0A00
3B	OSP GYPSY COVER FF Y Ø105MM	FVSSCPBBGFFYA00
3C	OSP GYPSY COVER Ø105MM Y	FVSSCPBBG000A00
3D	OSP GYPSY COVER Ø105MM X	FVSSCPBBASG0A00
3E	OSP GYPSY COVER FF3 Ø130MM	FVSSCPBBFF30A00
4 A	OSP GYPSY 5/16" BL2	FVSSBBL20050A00
4B	OSP GYPSY 6MM BL2	FVSSBBL20060A00
4C	OSP GYPSY 7MM-1/4" BL2	FVSSBBL20070A00
4D	OSP GYPSY 8MM BL2	FVSSBBL20080A00
4E	OSP GYPSY ROPE BL2R X AND Y	FVSSB08CMBLDA00
4F	OSP GYPSY 6MM BL3	FVSSBBL30600A00
4G	OSP GYPSY 8MM-5/16" BL3	FVSSBBL30800A00
4H	OSP GYPSY 10MM-3/8" BL3	FVSSBBL31000A00
5 A	OSP BRACKET MOUNTING PLATE BL2 / R Y	FVSSLFSTBLDYA00
5B	OSP BRACKET MOUNTING PLATE BL2 / R X	FVSSLFSTBLD0A00
5C	OSP BRACKET MOUNTING PLATE BL3	FVSSLFSTBL30A00
6 A	OSP MOUNTING BRACKET BL2	FVSSSTBL2000A00
6B	OSP MOUNTING BRACKET BL2R	FVSSSTBLD000A00
6C	OSP MOUNTING BRACKET BL3	FVSSSTBL3000A00
7 A	OSP NYLON WINDLASS LEVER BL2 / R	FVSSLVSDN000A00
7B	OSP CURVED WINDLASS LEVER REV2 BL3	FVSSLVSP00R2A00
8 A	OSP ROPE GUIDE SUPPORT KIT BL2R Y	FVSSSGCGBLDYA00
8B	OSP ROPE GUIDE SUPPORT KIT BL2R X	FVSSSGCGBLD0A00
9 A	OSP CHAIN GUIDE SUPPORT KIT BL2 Y	FVSSSGCGBL2YA00
9B	OSP CHAIN GUIDE SUPPORT KIT BL2 X	FVSSSGCGBL2XA00
9C	OSP CHAIN GUIDE SUPPORT KIT BL3 X	FVSSSGCBL300A00
10	OSP AUTOSTOP T1+ STOPPER KIT BL2R	FVSSATBLD000A00
11	OSP AUTOSTOP T2 + STOPPER KIT BL2 R	FVSSAT2BLD00A00
12 A	OSP AUTOSTOP T1+ STOPPER KIT + LAM BL2 R X	FVSSATLBLD00A00
12B	OSP AUTOSTOP T1+ STOPPER KIT + LAM BL2 R Y	FVSSATLBLDY0A00
13	OSP AUTOSTOP T2 BL2R + FOLDING STOPPER KIT	FVSSAT2BLD20A00
14 A	OSP AUTOSTOP T1+LAM BL2 R Y+ FOLDING STOPPER KIT	FVSSATLBLY20A00
14B	OSP AUTOSTOP T1+LAM BL2 R X+ FOLDING STOPPER KIT	FVSSATLBLD20A00
15 A	OSP AUTOSTOP T1 Ø6MM 600W KIT BL3	FVSSATBL3060A00
15B	OSP AUTOSTOP T1 Ø6MM 900W KIT BL3	FVSSATBL306LA00
15C	OSP AUTOSTOP T1 Ø8-10MM KIT BL3	FVSSATBL3080A00
16 A	OSP AUTOSTOP T1 Ø6MM+LAM 600W KIT BL3	FVSSATLBL306A00
16B	OSP AUTOSTOP T1 Ø6MM + LAM 900W KIT BL3	FVSSATLBL36LA00
16C	OSP AUTOSTOP T1 Ø8/10MM + LAM KIT BL3	FVSSATLBL308A00
17 A	OSP THRU-HULL T1 + PLATE KIT BL3	FVSSLFSTBL3LA00
17B	OSP THRU-HULL T1 + PLATE KIT Y BALD	FVSSPTLBLD00A00
17C	OSP THRU-HULL T1 + PLATE KIT X BALD	FVSSPTLBLDX0A00
18	OSP SAFETY STOPPER ROPE BL2	FVSSBLSCBLD0A00
19 A	OSP SAFETY STOPPER Ø20MM BL2 ROPE	FVSSBLSCBL22A00
19B	OSP SAFETY STOPPER 600W Ø6MM CHAIN BL3	FVSSBLSCBL36A00
19C	OSP SAFETY STOPPER 900W Ø6MM CHAIN BL3	FVSSBLSCBL37A00
19D	OSP SAFETY STOPPER Ø8-10MM CHAIN BL3	FVSSBLSCBL38A00
20	OSP THRU-HULL KIT T1 BL3	FVSSPT1BL300A00
21 A	OSP AUTOSTOP T1+LAM BL2 X+FOLDING STOPPER KIT 6mm	FVSSATLBLD08A00
21B	OSP AUTOSTOP T1+LAM BL2 Y+FOLDING STOPPER KIT 6mm	FVSSATLBLD06A00
21C	OSP AUTOSTOP T1+LAM BL2 X+FOLDING STOPPER KIT 8/10mm	FVSSATLBLD06A00
21D	OSP AUTOSTOP T1+LAM BL2 Y+FOLDING STOPPER KIT 8/10mm	FVSSATLBLY08A00

13 - Spare parts

22



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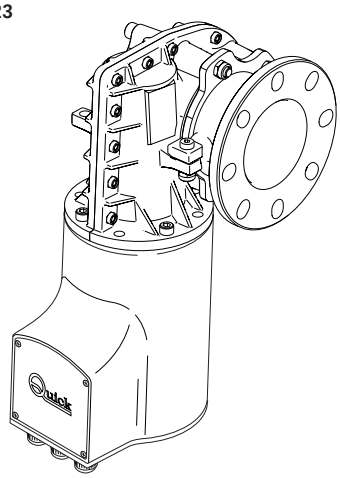

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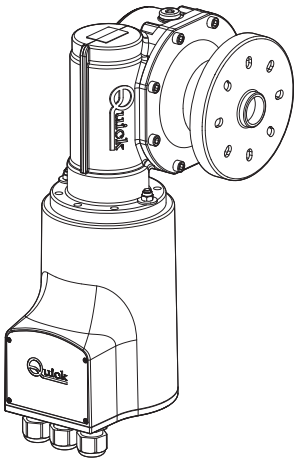

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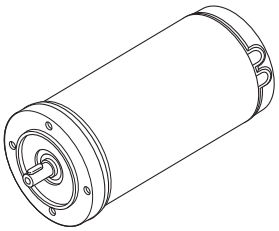

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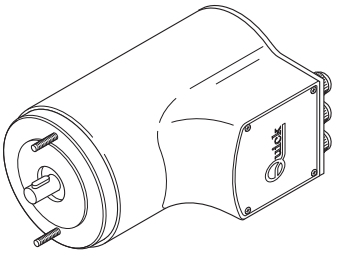
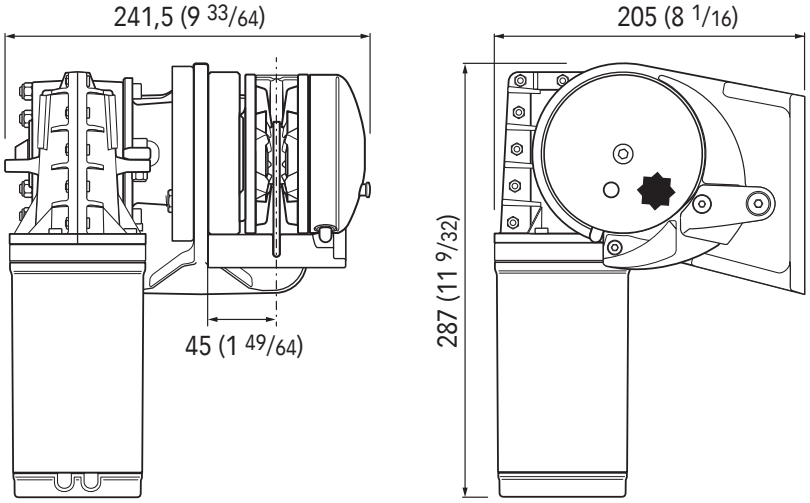


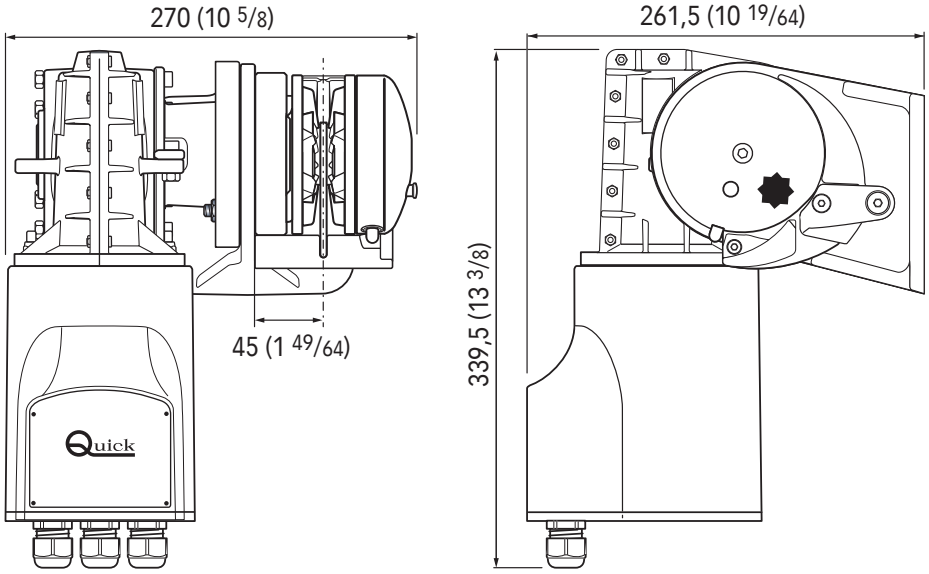
POS.	NAME	
22 A	OSP MOTORGEARBOX 600W 12V QUICK REV1	FVSSR0612Q00B00
22B	OSP MOTORGEARBOX 600W 24V QUICK REV1	FVSSR0624Q00B00
22C	OSP MOTORGEARBOX 1200W 12V QUICK REV1	FVSSR1212Q00B00
22D	OSP MOTORGEARBOX 1200W 24V QUICK REV1	FVSSR1224Q00B00
23 A	OSP MOTORGEARBOX 900W 12V QUICK REV1	FVSSR0912Q00B00
23B	OSP MOTORGEARBOX 900W 24V QUICK REV1	FVSSR0924Q00B00
24 A	OSP MOTORGEARBOX 1500W 12V QUICK REV1	FVSSR1215Q00B00
24B	OSP MOTORGEARBOX 1500W 24V QUICK REV1	FVSSR1524Q00B00
25 A	OSP WINDLASS MOTOR 600W 12V	FVSSM0612000A00
25B	OSP WINDLASS MOTOR 600W 24V	FVSSM0624000A00
26 A	OSP WINDLASS MOTOR 900W 12V	FVSSM0912000A00
26B	OSP WINDLASS MOTOR 900W 24V	FVSSM0924000A00
26C	OSP WINDLASS MOTOR 1200W 12V	FVSSM1212000A00
26D	OSP WINDLASS MOTOR 1200W 24V	FVSSM1224000A00
26E	OSP WINDLASS MOTOR 1500W 12V	FVSSM1512000A00
26F	OSP WINDLASS MOTOR 1500W 24V	FVSSM1524000A00

14.0 - BL2 P dimensions

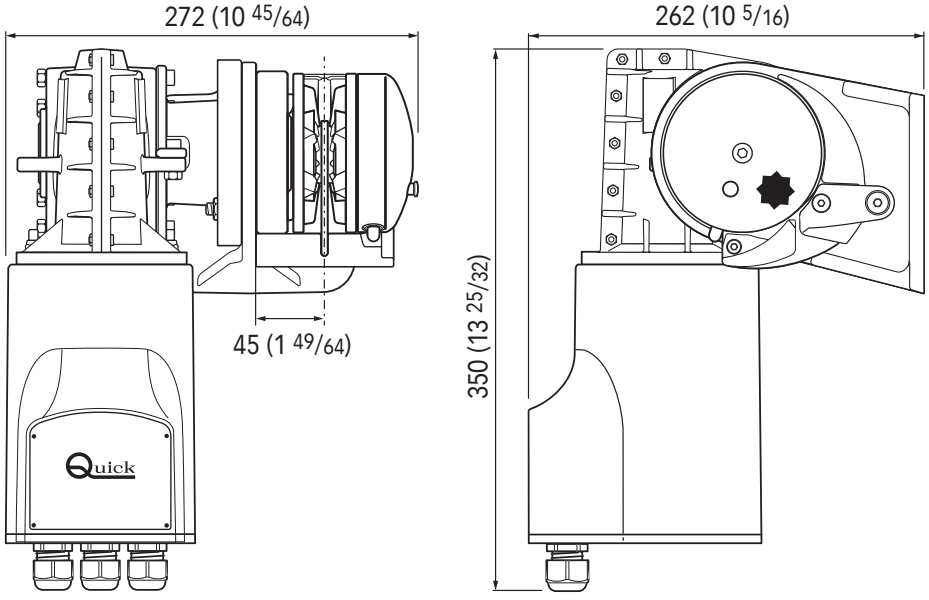
BL2 P 600



BL2 P 900

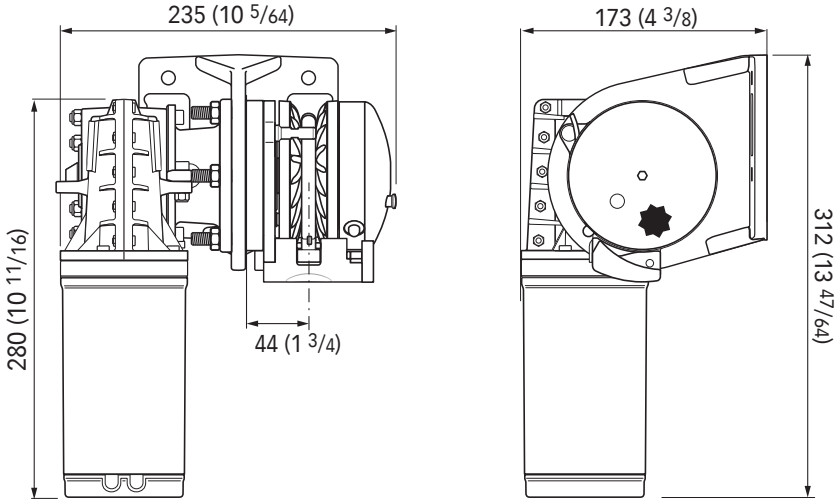


BL2 P 1200

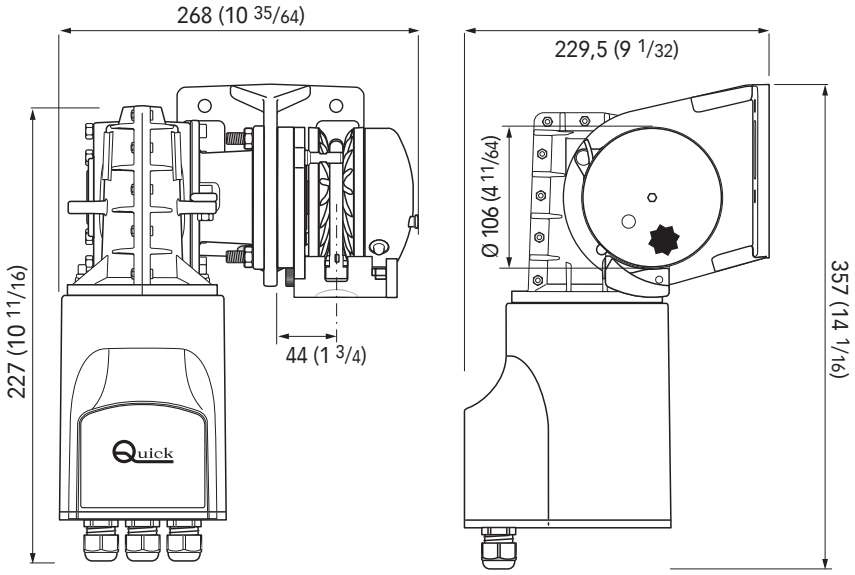


14.1 - BL2R P dimensions

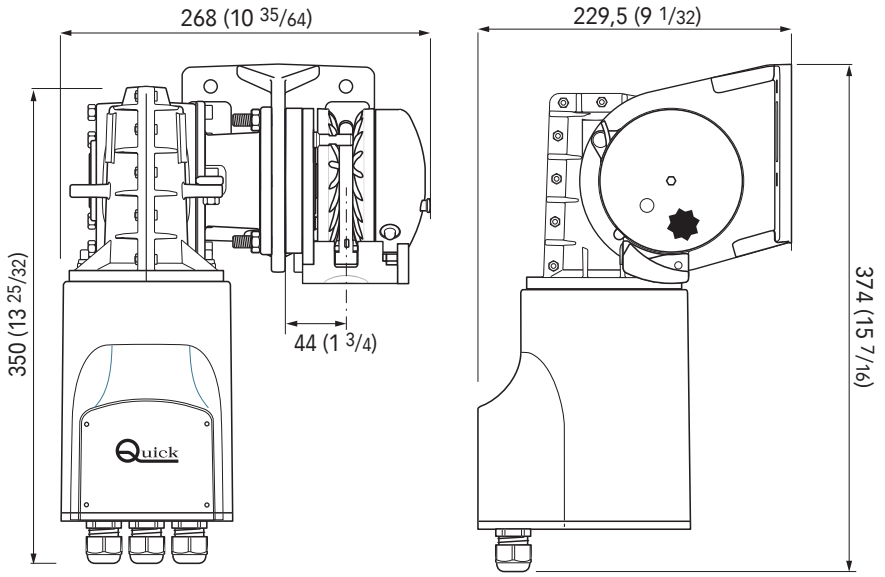
BL2R P 600



BL2R P 900

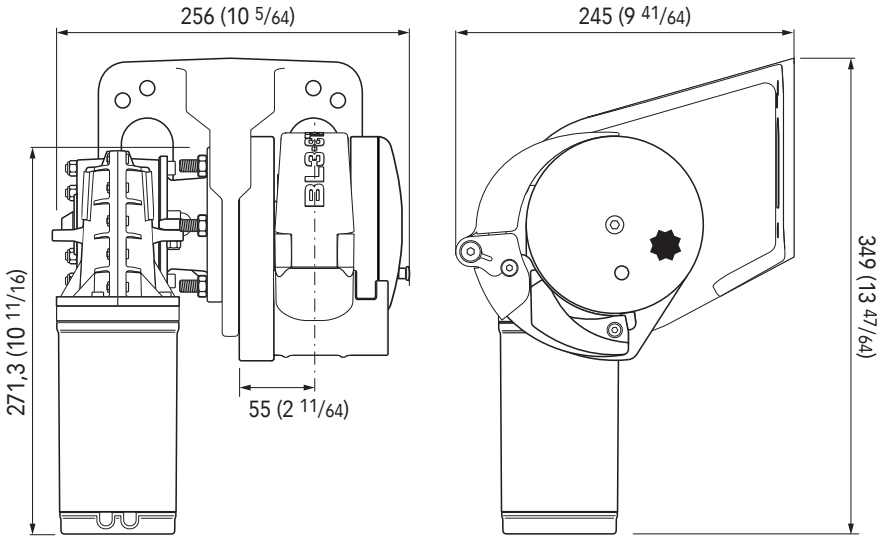


BL2R P 1200

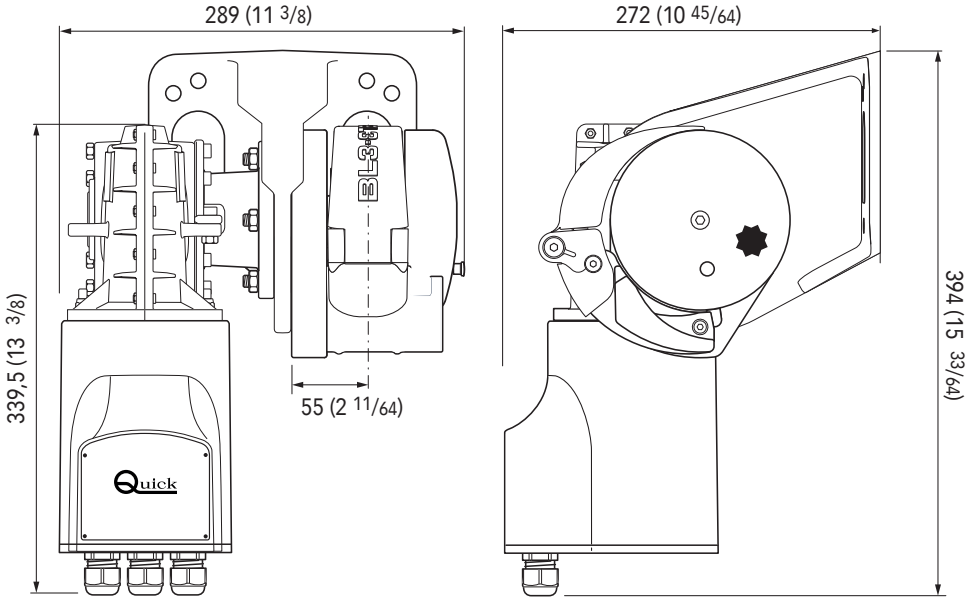


14.2 - BL3/P dimensions

BL3 P 600

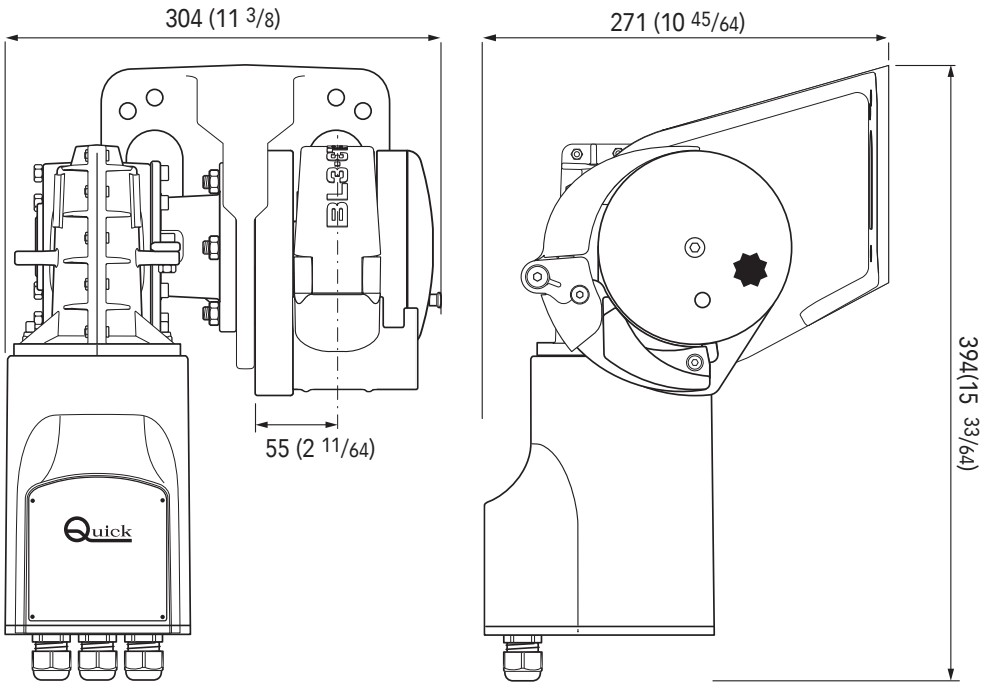


BL3 P 900

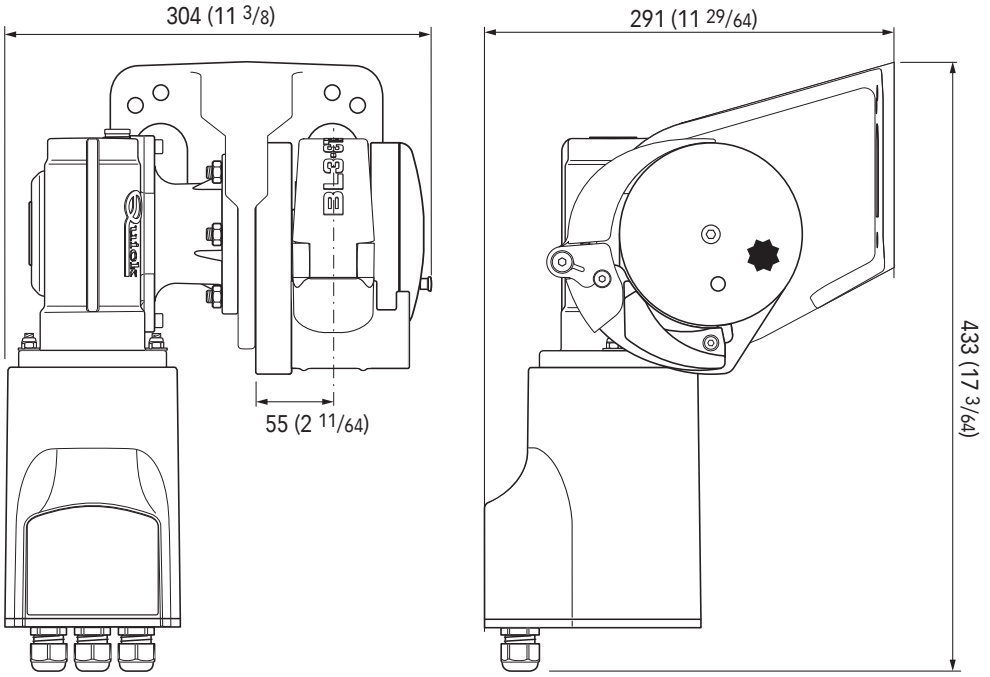


14 - Dimensions

BL3 P 1200



BL3 1500



BL Series

REV 001A

VERTICAL WINDLASSES

BL2 P FF/0 Y/X 600 900 1200

BL2R P FF/0 Y/X 600 900 1200

BL3/P FF X 600 900 1200 1500

Product serial number

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