

AC 3000 Mk3 SERIES Pulling Winch with Freespool

3000kg or 4000kg

415v x 3ph AC

FEATURES INCLUDE

- **Lever Style Freespool clutch**
Enables easy unspooling of wire rope
- **Electronic Braked motor**
Provides instant, safe braking
- **Heavy duty mounting plate and roller guide**
Optional for quick and simple installation
- **3 metre pendant control**
Low voltage 24v in the handset – Includes Emergency stop and 3m cable pre-wired to the winch as standard
- **Motor to IP54 as Standard**
(Other options available on request)
- **2 metre power lead**
Pre-wired to the winch with commercial type plug

NEW EUROPEAN STANDARDS & BHW GROUP

New Harmonised European Standards: EN14492-1 for power driven winches, EN14492-2 for power driven hoists provide the means for conformity to essential Health and Safety requirements of the EC Machinery Directive.

Conformity to these standards is the joint responsibility of the supplier, the installer and the company operating the product.



BHW Group products are fully compliant and carry a CE mark. A Declaration of Conformity is also supplied with each winch or hoist.

Our aim at BHW Group is to ensure the correct machine is supplied to suit the application and we welcome the opportunity of discussing the proposed application and offer advice. It will help us considerably if information regarding the maximum and average loads to be lifted or pulled - and approximate frequency of use can be provided.

For hoisting applications the minimum breaking force (MBF**) of the wire rope must be 5 x the lifting capacity of the hoist. The ratio of wire rope diameter to mean drum diameter* is usually at least 15:1. This will vary according to the application, the average operating time per day and the average and maximum weights being lifted.

For pulling applications. As a general rule winches used in pulling applications rarely see their maximum rated capacity and are used intermittently for short running periods. In these applications the wire rope MBF** to winch rating can be a minimum 2:1 and the ratio of wire rope to mean drum ratio* as low as 10:1.

In applications where the winch is used for longer running times and more frequently sees higher loading conditions the wire rope to MBF** should be 3:1 and the ratio of wire rope to mean drum ratio* 12:1.

For recovery vehicles the permissible standard of wire rope MBF** to winch rating can be a minimum 2:1 and the ratio of wire rope to mean drum ratio* only 10:1. This minimum standard is permitted because the running time is so short and the winch rarely sees maximum load.

Wire rope capacities the maximum amount of wire rope on the drum must leave a freeboard to the top of the drum flange of 1.5 x wire rope diameter to prevent the wire rope coming off the drum.

Winches and hoists with capacities over 1000kg must be load limited.

* Mean drum diameter = the drum diameter plus the diameter of the wire rope.

** MBF = the Minimum Breaking Force of the wire rope.

ADDITIONAL EQUIPMENT

- Wire rope
- Mounting Plate
- Roller Guide
- Skid mounting frame
- Tension roller
- Weather proof enclosure
- Radio remote control

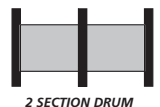


AC 3000 Mk3 series shown without roller guides or mounting plate



Optional skid mounting frame

Special machines can be built to meet customers' requirements. Example:



2 SECTION DRUM

Bushey Hall Winchmaster sales@bhwgroup.co.uk www.bhwgroup.com

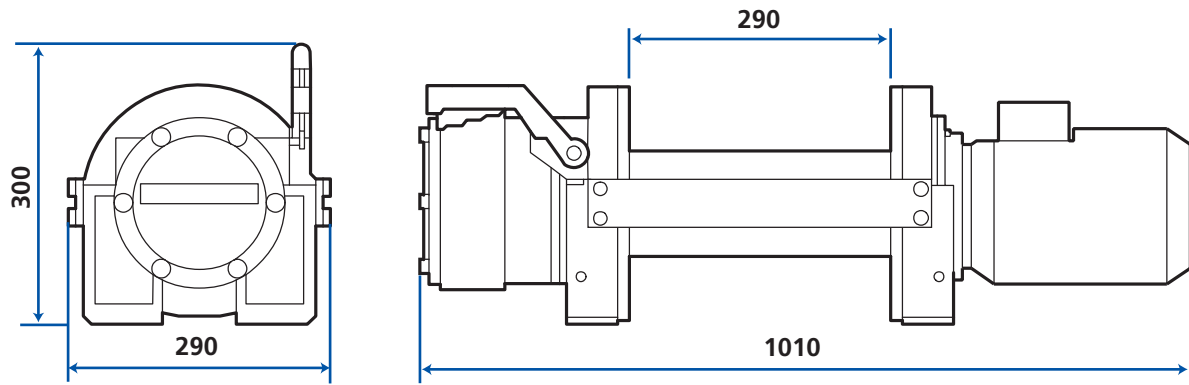
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CERT. No. 1769



LINE PULL AND LINE SPEED PERFORMANCES

3000kgf (29.4kN)

| | | LAYER | | | |
|---|-----------|--------------|--------------|--------------|--------------|
| | | 1 | 2 | 3 | 4 |
| Maximum Rated Line Pull by Layer | kN kgf | 29.4 3000 | 26.5 2700 | 23.8 2430 | 17.6 1800 |
| AC3000a Rope Capacity Cumulative by Layer (12mm Dia. Wire Rope) | m | 9.8 | 21 | 33 | 46 |
| Line Speed* | m/min | 3.3 | 3.6 | 4.1 | 5.3 |

* Based on recommended 12mm wire rope, 1960N/mm² grade, 6 x 36 wire core construction

4000kgf (39.2kN)

| | | LAYER | | | |
|---|-----------|--------------|--------------|--------------|--------------|
| | | 1 | 2 | 3 | 4 |
| Maximum Rated Line Pull by Layer | kN kgf | 39.2 4000 | 35.3 3600 | 31.4 3200 | 27.5 2800 |
| AC3000b Rope Capacity Cumulative by Layer (13mm Dia. Wire Rope) | m | 9 | 19 | 31 | 43 |
| Line Speed* | m/min | 3.3 | 3.6 | 4.1 | 5.3 |

* Based on recommended 13mm wire rope, 1960N/mm² grade, 6 x 36 wire core construction

SPECIFICATIONS

AC3000a

AC3000b

| | | |
|--------------------------------|---|------------|
| Voltage: | 415v 3ph | |
| Weight: Winch only | 80kg | |
| with Roller Guide & Mtg. Plate | 110kg approx. | |
| Motor: | Induction braked | |
| Outputs: Kilowatts | 3kw | 4kw |
| Amperes | 6.6amp | 7.8amp |
| Gearbox: | 4 Stage Planetary Gear Reduction 336:1 | |
| Braking: | Electronic | |
| Drum & flange dimensions: | 290mm length, Drum Ø = 125mm, Flange Ø = 260mm | |
| Wire rope: Diameter (Ø) | 12mm | 13mm |
| Maximum length on drum: | 46 metres* | 43 metres* |
| Wire rope construction: | 1960N/mm ² grade, 6x36 wire core for maximum flexibility. Factor of safety 3:1 | |
| Rope Ø to mean drum Ø ratio: | 11.4:1 | 10.6:1 |

NOTES

These winches must not be used for the movement of personnel and 7 wraps of wire rope must be maintained on the drum.

Data shown is approximate and intended as a guide only.

WARRANTY

Each new winch is guaranteed against defects in workmanship and material defects for a period of twelve months from date of purchase.

WIRE ROPES ARE NOT INCLUDED UNDER WARRANTY.

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