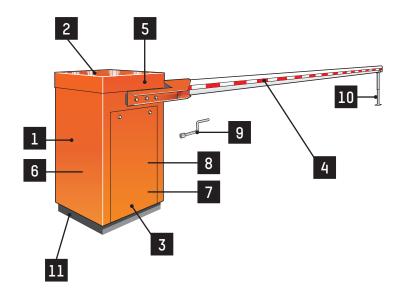
BL 53 Datasheet

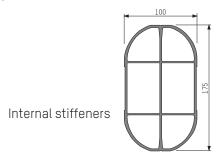
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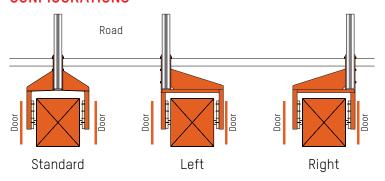
DESCRIPTION:

- 1. Manufactured in shaped and welded steel sheeting 3 to 10 mm thick, with a framework of steel profiles welded into a strong section.
- 2. Removable upper hood, locked from the inside.
- 3. Two side doors with peripheral weather seals and safety lock to insure easy access to the internal mechanism.
- 4. Aluminium tube barrier arm with reinforced oval section of 100×175 mm, varnished white with red reflecting stripes and end-sealing cap. The arm is mounted in a central position on a steel pole:



The **BL 53** rising barrier is a heavy-duty high security barrier, with reinforced oval boom arm section, specially developed for installation where a high level of security is required.

CONFIGURATIONS



- 5. Arm shaft mounted on two life-lubricated ball bearings.
- Electro-mechanical assembly comprising:
 - three-phase induction motor,
 - life-lubricated worm-screw gearbox,
 - operation by grooved pulley and V-belt making the adaptation of the operation speed possible according to the length of the boom arm,
 - movement transmission by crankshaft-rod mechanism with ball strap joints, to insure progressive shock-free accelerations and decelerations, as well as mechanical locking of the arm in end positions,
 - safety torque limiter with adjustable friction,
 - limit switches activated by adjustable cams.
- 7. Barrier arm balancing by means of a compression spring.
- 8. Programmable electronic control logic allowing various control operations and/or complementory accessories (see related technical data sheet). The logic protection to dust and condensation is assured by a removable hood. Electrical protection is secured by a bipolar circuit-breaker.
- 9. Emergency crank with safety cut-out for manual barrieroperation in the event of power failure.
- 10. Tip support (optional).
- 11. Fixing frame made of a fixing frame with threaded rods to be fixed in a concrete base to be provided by the customer.

STANDARD TECHNICAL CHARACTERISTICS

Power supply	Single phase 230 VAC, 50/60 Hz + Ground. (Not to be connected to a floating network or to high impedance earthed industrial distribution network)
Nominal power consumption	350 W.
Motor	Induction, 3-phase 250 W
Gearbox	Worm-screw, life-lubricated
Thermostatic heater	80 W.
Ambient operation temperature	From -35 to +50°C.
Boom arm balancing	By adjustable spring(s)
Useful length of boom arm (L)	From 3 to 8 meters
Position of boom arm	Central
Operation time	8 to 12 sec. according to the boom's range and the installed options
Tolerated relative humidity	95%, without condensation
Net weight (without boom arm)	± 340 kg
MCBF (Mean Cycles Between Failures)	When respecting recommended maintenance, 1.500.000 cycles
Protection index	IP44
Limit switch sensor	IP65
(6	EC norms compliant



SURFACE TREATMENT

- Internal mechanical items: electrozinc coating.
- Complete housing: cationic electrodeposition coating
 + 1 coat of 2-component epoxy anti-rust primer and
 1 top coat of 2-component polyurethane structured paint.
 Standard colour: Orange, RAL 2000.

WORK TO BE SUPPLIED BY THE CUSTOMER

- Power supply.
- Electrical wiring connection to the control instruments.
- Means of fixing to the ground, according to the nature of the existing ground.

Note: comply with the installation drawing.

OPTIONS

- 1. Left/right-hand side arm offset.
- 2. Height adjustable tip support.
- 3. Electro-magnetic tip support^(a).
- 4. Folding tip support(a).
- 5. Bolt cover to protect arm from vandalism.
- 6. Security lock for crank hole closing plate.
- 7. Push button(s) box.
- 8. Key switch on housing.
- 9. Command by radio transmitter/receiver.
- 10. Inductive loops for cars or trucks detection.
- 11. Presence detector for inductive loops.
- 12. Photo electric cell (automatic opening, closing after passage, safety).
- 13. Cell support post.
- 14. Cell fixed on housing.
- 15. Electronic board for Input/Output extension (CAN).
- 16. Totaling counter (without or with reset button).
- 17. Boom lighting (LED).
- 18. Traffic lights (LED) fixed on a post on housing.
- 19. Traffic lights (LED).
- 20. Support post for traffic lights.
- 21. Electronic board for third-party traffic lights control.
- 22. STOP traffic sign, Ø 400 mm^[a].
- 23. Non standard RAL colour.
- 24. AISI 316L stainless steel housing.
- 25. Raised base.
- 26. 120 VAC, 60 Hz power supply (reduces performances).
- ^[a] Some options reduce the arm's range. Consult the "Limit of use" table of the price list.

TRAFFIC MANAGMENT OPTIONS (ON DEMAND)

- 27. Rotating base.
- 28. Stainless steel mechanical parts.
- 29. Treatment for aggressive saline environment.
- 30. IP55 enclosure on the housing.

 $\underline{\textit{Note:}} \ \textit{for restrictions on the options, consult the rate table.}$





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STANDARD DIMENSIONS (MM)

