Central gearmotors for rolling shutters

Instructions and warnings for fitters
Warning: follow these personal safety instructions very carefully.
Save this manual for future reference.

COMPANY WITH QUALITY SYSTEM CERTIFIED BY DNV ISO 9001



EC - Declaration of conformity

The central gearmotors for rolling shutters series BOLT comply with the following technical standards: UNI EN 292 Part I.UNI EN 292 Part 2.UNI EN 294, UNI EN 418.CEI EN 60335-1.EN 55014-2 and the European directives 98/37/EEC, 73/23/EEC, and 89/336/EEC.

Declaration of incorporation

The central gearmotors for rolling shutters series BOLT, when installed and maintained according to the manufacturer's instructions, in conjunction with roller rolling shutter, which must also be installed and maintained according to the instruc-tions of their manufacturers, comply with the provisions of the regulations of the EU Directive 89/392 EEC and successive amendments.

I the undersigned declare that the foregoing equip-ment and all the accessories stated in the handbook comply with the foregoing directives.

IMPORTANT SAFETY INSTRUCTIONS ATTENTION - FOR REASONS OF PERSO-NAL SAFETY IT IS IMPORTANT TO OB-SERVE THESE INSTRUCTIONS RETAIN THESE **INSTRUCTIONS**



Do not let children play with fixed con-trol devices. Keep the remote controls out of reach of children Perform fre-quent checks on the

system for any signs of unbalance and wear or damage to wires or springs. Do not use the equipment if it requires repair or regulation.





These warning symbols serve to remind you to pay the maximum

attention when the equipment is in use. They indicate the procedures to be followed to avoid risks to persons or things. This gearmotor is designed to function safely if installed and used in compliance with the following instructions. The equipment must only be employed for residential uses and must be installed indoors.



You are warned that incorrect installation can cause serious injuries. Follow all the installation instructions.



o not use command buttons that can simultaneously operate the equipment in both directions. Do not com-mand more than one gearmotor with each button. Conduct frequent

examinations on the installation to check for signs of unbalance and wear/damage to the wiring. Do not use the equipment if it requires repairs or adjustments. The product cannot be installed for heights of less than 2.5. m.

The deployment of a device that guarantees omnipolar disconnection from the mains with an opening of at least 3 mm between the contacts is obligatory.

Before installing the gearmotor for operating the rolling shutter remove all superfluous wires and disable any equipment not necessary for motorised movement. The control button must be placed in sight of the equipment, kept separate from the moving parts and at a height of at least 1.5 m.

If the power cables are damaged they must be replaced by the constructor or his technical aftersales service or, in any case, by a similarly qualified person in order to avoid all risks. The gearmotor is designed for intermittent operation and is provided with an internal thermal protection that interrupts power supply in the event of overheating caused by continued use. The gearmotor automatically resets itself after a few minutes. However, regular operation will only be possible when the gearmotor cools down.

technical characteristics

MODEL.	TORQUE	LSWITCH	PLRM.	CONDENSER	MAINS VOLTAGE	ASSORBED POWERA	POWER	THERMAL	WEIGH
	Nm	m	nº -	ut	. v	: A	W	min.	kg
BOLT-C70/C870	3.0	6	10	10UF	230-50 Hz	1.62	372	4	8
BOLT-CB0/CB80	80	6.	10	12UF	230-50 Hz	1.66	382	14.	8
BOLT-C100/CB100	100	6	10	14UF	230-50 Hz	1.79	412	4	8.5
BOLT-C120/CB120#	120	6	10	16UF	230-50 Hz	1.85	425	4	8.5
BOLT-C140/CB140	140	6	10	18UF	230-50 Hz	2.15	495	4	9
BOLT-C160/CB160	180	6	10	20UF	230-50 Hz	2.49	572	4	9.5
BOLTC180/CB180	180	6	10	29UF	230-50 Hz	2.85	656	4	10
BOLT-COM 300	300	- 6	10	40UF	230-50 Hz	4.91	1129	4	12.5
BOLT-F80/FB80	80	6.	10	10UF	230-50 Hz	1.65	370	4	8
BOLT-F100/FB100	100	6	10	10UF	230-50 Hz	1.61	380	4	8.5
BOLT-F120/FB120	150	6	10	12UF	230-50 Hz	1.72	396	4	8.5
BOLT-F140/FB140	140	- 6	10	14UE	230-50 Hz	1.95	450	4	8.5
BOLT-F160/FB160	160	6	10	16UF	230-50 Hz	2.21	510	4	9
BOLT-F180/F8180	180	6	10	18UF	230-50 Hz	2.56	590	4	9.5
BOLT-F200/F8200	200	8	10	SOUL	230-50 Hz	2.68	620	4	9.5
BOLT-F240/FB240	240	6	10	24UF	230-50 Hz	3.15	725	4	10
BOLT-F260/FB260	260	6.	10	26LIF	230-50 Hz	3,48	800	4	10
BOLT-FOM 360	360	6	10	40UF	230-50 Hz	5.21	1198	4	12.5

TECHNICAL DATA

- 1)Die-cast aluminium body and rim
- 2) Steel gears, roller bearings
- 3)Rim mounted on bearing
- 4) Drive shaft mounted on double ball bearings
- 5) Asynchronous 4 pole motor 1.400 rpm
- 6)Class B isolation
- 7) Thermal protection on motor: 160°C.
- 8) Easy limit-switch adjustment

9)6 mt, maximum shutter height

10)Alimentation electric cable:4x1 mm2 for

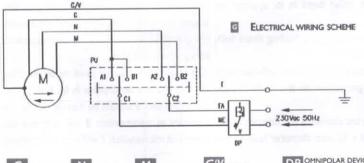
BOLT C and BOLT F,4x1.5 mm2 for

BOLT CDM and BOLT FDM.

11)Operating temperature: -20°C. +85°C.

12) Fittings for electrobrake mounting P-PBM-

P115



















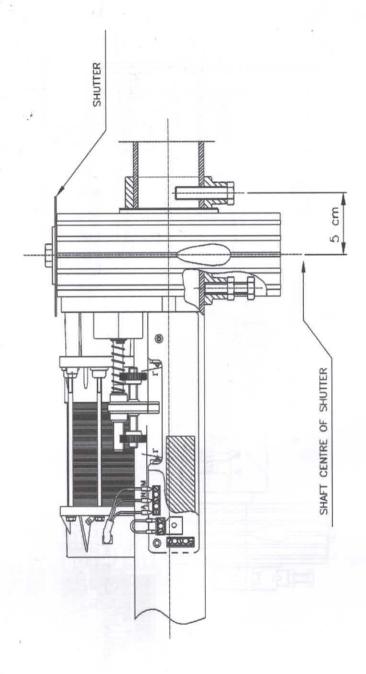
INSTALLATION INTRUCTIONS

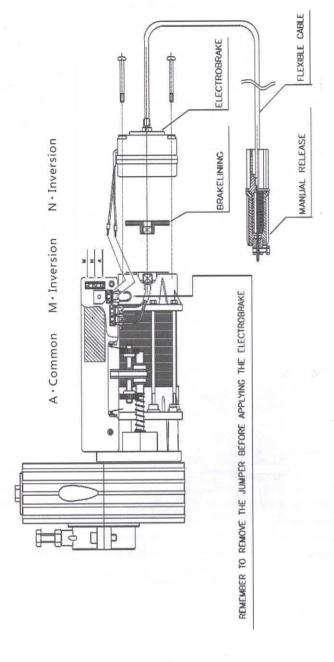


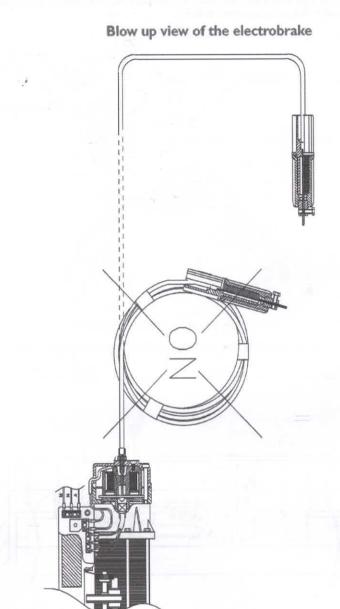
- centre of the shutter's shaft (see fig. I);
- gear of the gearmotor.
- 3) Remove the two semi-gears by unscrewing (down) fig. I (It must turn easily); the two M 8 screws (using a 6 mm hexagonal 14) Lock the shutter to the gearmotor using wrench);
- 4) Carefully remove, avoiding any folding, the mm wrench); black plastic roller carrier bandi;
- M 8 screws (using a 6 mm hexagonal wrench); with the rotating pars;
- 6) Should the shutter shaft be less than 60 mm 16) After having installed the mechanical parts long, use the dedicated reducing sockets posi- and electrical contacts, proceed to regulate tioning them using the previously drilled 10 the end of travel; diameter mm hole as a reference (point I);
- 7) Join the upper and lower bodies using the you hear the click of the microswitch's trigger four M8 screws removed before:
- (previously drilled);
- housing:
- the two M 8 screws:
- 11) Tighten the M 10 t.e. screw with nut so as 19) Should the shutter need to be installed ten said nut:

- 1) Drill a 10 mm diameter hole 5 cm from the same location as the M10 threaded hole on the gear;
- 2) Remove the M 10 t.e. screws from the 13) Tighten by hand the gear by 1-11/2 turns by bringing the grip towards microswitch I
 - the M 10 t.e. screw with washer (using a 17
- 15) Make the electrical connections described 5) Separate the two elements of the gearmo- in page 7 passing the 4xl mm cable supplied intor (upper and lower body) acting on the four side the shutter shaft avoiding any contact

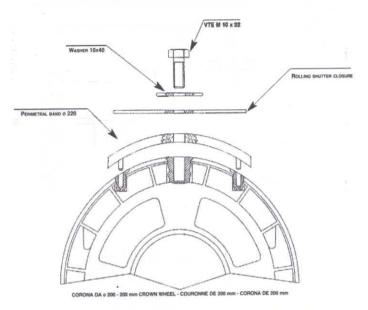
 - 17) Turn the end of travel grip by hand uniti-(down regulation completed);
- 8) Tighten the M IO t.e. screw without hexa- 18) Turn the other grip towards microgon nut using a 17 mm wrench and ensure it switch II (up). Switch on current to the gearenters the shutter shaft via the 10 mm hole motor via the key selctor or button to ensure that when rising the shutter stops at 9) Install the roller band in its appropriate the correct point to regulate the position, adjust the grip, using solely and exclusively 10) Apply the semi-gears, holding them with the electric commands taking all precautions to avoid manual lifting.
- to block the gearmotor on the shaftand tigh- contrary to the description in fig. I, the steps described above should be carried out to the 12) Place the last canvas of the shutter on the contrary as microswitch II will stop the deshaft and drill a 12 mm diameter hole at the scent and microswitch I will stop the opening.





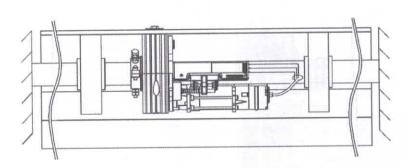


The Chinabolt built with a 200 mm crown wheel, which can be converted into a 220 mm crown wheel by the use of a perimetral band.

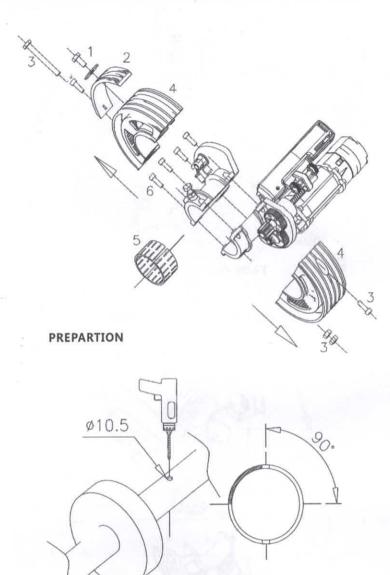


EUROSAFETY . EUROSAFETY PLUS - UNISAFETY - UNISAFETY PLUS

Eurosafety and Unisafety are version of the geramotors with safety device carried out to the stop the free fall of roller shutters and at the same time, in Plus version, to interrupt the motoreductor's feeding.



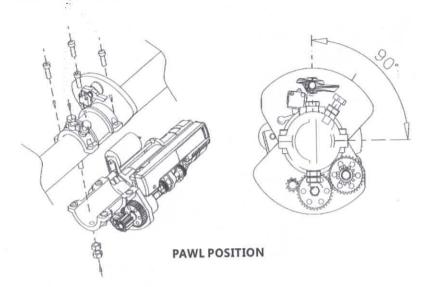
TOWARDS OF INSTALLATION OF THE GEARMOTOR

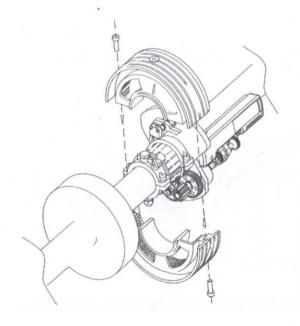


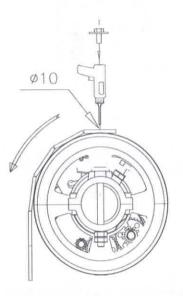
a)

ON THE AXIS OF THE SHUTTER TO PRACTICE 1 HOLE

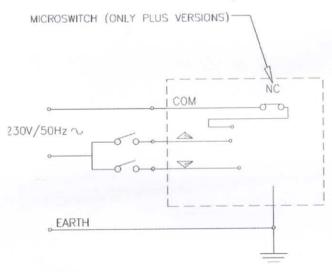








DOWNWARD RUN OF THE ROLLER SHUTTER



ELECTRICAL WIRING SCHEME

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