

ATEX Industrial Roller Shutter Electrically Operated

HART

DOOR SYSTEMS



ATEX doors are designed to eliminate all sources of ignition when in operation, allowing safe use in hazardous environments.

When fitting roller shutter doors in conditions considered potentially combustible or where possibility of an explosion is present, we advise using an ATEX rated motor and equipment. The ATEX rated motors are sealed units which eliminates potential sources of ignition that can occur in hazardous environments

These hazards can include dust, waste products such as wood shavings, gas and vapour.

Standards & Quality:

BSEN 12453:2005, BSEN 12604:2000, BSEN 12635:2002, BSEN 12978:2003, BSEN 13461-Pt 1:2001, BSEN 13463-Pt 1:2001, BSEN 13463-Pt 5:2003, BSEN 60079-Pt 1:2004, BSEN 60079-Pt 10:2003, BSEN 60079-Pt 14:2003, BSEN 60079-Pt 25:2004. Complies with the Machinery Directive 2008 26/42/EC + ATEX Directive 94/9/EC. Manufactured under ISO9001:2015 and CE marked.

Door Curtain:

75mm convex interlocking galvanised roller shutter laths retained at ends by malleable steel end wearing lugs riveted on via solid rivets. This section is available in three thicknesses 18G, 20G and 22G this considerably varies the cost and significantly improves rigidity, security and wind resistance as the section thickness increases.

Bottom Rail:

Standard Tee section with optional rubber seal. Note There must be a fall of the door threshold to the outside as this seal is not sufficient to prevent windblown water penetration without a step or proprietary drainage system.

Door Guides/wind resistance:

Optional guide depth 50, 75,100 for standard guides and 65 or 100 wind guides coupled with wind end lugs to achieve class 5 wind resistance.

End Plates:

Steel end plate with steel angle fixing to door frame. The end plates support the weight of the shutter and are fixed through the angles.

Roller:

The steel hollow tube supports the door and the diameter is calculated not to exceed deflection 1/400.

Hoods:

Optional hood around the roller for dust, and weather sealing combined with optional motor cover, all in galvanised or pre-finished materials.

Wiring & Power Supply:

The standard unit is prewired with a surface fixed braided cable and requires a three phase 380-440v & neutral socket.

Manual Override:

All doors are supplied as standard crank handle operation at the motor. Note, this is and slow and is only for emergency use.

Controls:

Depending on the level of specification, the door will be supplied with a starter or a control to suit the required specification with up and down buttons.

Normal Operation:

"Hold to Run" in full view of the door. Optional impulse press with suitable EEX safety devices are available.

Safety:

Safedrive direct drive or optionally a chain drive with separate safety brake complies to safety standard. Safety device Options are available when automatic close is required such as photo-cells and light curtains.

Operating Speed:

Depends on door weight, size, and the drive unit and control package required. Standard travel speeds are circa 100-200m-m/sec with standard ATEX motors and controls.

Finish:

Standard is galvanised. Curtain options include plastisol pre finish, powder coat (max 8m) or acrylic paint. The door curtain, guides and bottom rail optional in powder coat. Non galvanised surfaces such as heavy support angles, additional frames and tube will be finished in black undercoat.

Weight:

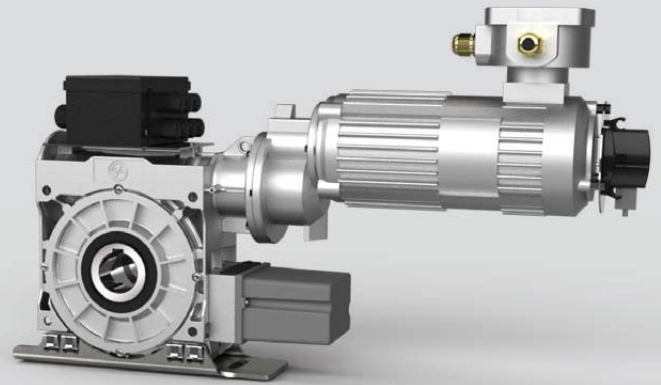
12Kgs to 35kgs per square meter depending on curtain gauge.

Dimensions:

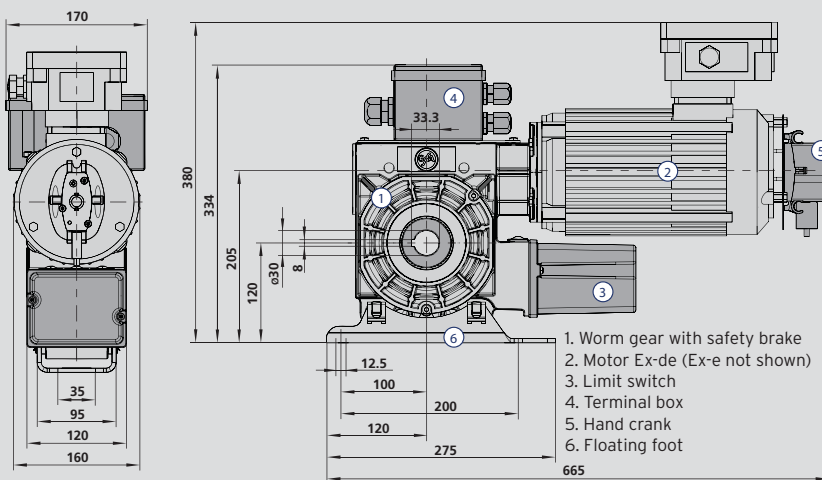
Normal max width 8m and max height 8m, with 40 square meters. Dependant on specification.

Drive Systems for Hazardous Areas

- ATEX certified
- Safedrive® - Safety Brake incorporated
- Range of output speeds and torques
- Horizontal or vertical mounting
- Hollow shaft worm drive gear with directly driven limit switches
- Controls available for both normal and automatic operation.



GA25/15 - Ex-de T4



Type of Protection - Gas	II 2G IIC Ex de T4 Gb
Type of Protection - Dust	II 2D IIC Ex de T130°C Db
Output Torque	250Nm
Motor power	15rpm
Output Speed	1.1kW
Supply Voltage	400v ~3
Supply Frequency	50Hz
Current	2.7A
Max Cycles per hour	20H ⁻¹
Limit Switch Range	20
Protection	IP65
Weight	36Kg

Reversing Starter EExd IIB T5 in flameproof enclosure.

Explosion protection	Ex d [ia] IIB T5/Ex td A21 T95°C
Supply voltage	3N~400V, PE
Operating frequency	50 Hz
Dimensions WxHxD	370 x 270 x 208 mm
Automatic door control for	Dead man
Operating modes	CLOSE/OPEN in hold-to-run mode
Features	<ul style="list-style-type: none"> • With Motor overload protection • Wall mounting reversing starter without push buttons • Intrinsic safe circuits for push buttons and Interlock switches enabling the use of Non Atex push button station and Non Atex Interlock switches e.g. Shootbolt Interlocks.



Job Reference:

2019 HS Marston Aerospace UK
 2018 Oman MOD Oman
 2018 Bentley Motors UK

2017 Nissan Motors UK
 2013 Denios Ltd UK
 2011 Shell Gas Terminal Ireland