

Hazardous Area Equipment Product Guide

CDO Exd, MDF Exd, STA Exd EXI Safety Beam EXD Starter





Product Range

EXD Door Operators

Marantec UK's EXD door operators range, including MDF, STA, and CDO operators, offers robust and reliable solutions for hazardous and explosive environments.

CD0 Exd 50/50B

- Flangemount
- 3 PhaseMotor



CDO Exd 200B

Flangemount

• 3 Phase Motor

CDO Exd 300B

- Flangemount
- 3 Phase Motor
- MDF 20-22-12 Exd
- 3 Phase Motor









Flange Direct Drive

MDF 30-40-15 Exd

- Direct Drive
- 3 PhaseMotor

MDF 50-75-10 Exd

- Direct Drive
- 3 Phase Motor

STA 1-11-24 Exd

- Sectional Door Operator
- 3 PhaseMotor







Accessories for Hazardous Areas

Marantec UK's accessories for hazardous areas, including the EXD Starter and EXI Safety Beam, provide essential safety and control enhancements for secure operation in explosive environments.

Exd Starter

 Exd Starter for Exd Door Operators

EXI Safety Beam

• EXI Safety Beam





Lifting Charts

Lifting Charts - for MDF Exd Operators

To select the optimal operator solution, the diameter of the winding shaft in mm and the curtain weight of the door in kg are required. With the help of these parameters, the correct Ex Slip-on operator can be determinedeasily and reliably using the table below.

Maximum curtain weights roller shutter operators 1:1 in kg

Ø Winding Shaft	30-40-15 EX e	30-40-15 Ex de	50-75-10 Ex de
101.6mm	515	515	966
108.0mm	491	491	920
133.0mm	413	413	774
159.0mm	355	355	665
177.8mm	322	322	603
193.7mm	298	298	559
219.1mm	267	267	501
244.5mm	242	242	454
273.0mm	219	219	410
298.5mm	202	202	378
323.9mm	187	187	351

Lifting Charts - for STA Exd Operators

To select the optimal operator solution, the area of the door in m² is required. With the help of these parameters, the correct sectional door operator can be determined easily and safely using the table below.

Door Size

Door Area (max.) (m2) STA 1-11-24 Ex e STA 1-11-24 Ex de

The table values take into account a weight of 13 kg/m² and assume exact spring balancing. In certain situations, the friction may be greater and must be added up accordingly.





Technical Data

CDO Exd Operators

The CDO Exd motors are specially designed for optimal performance in hazardous areas, offering reliable operation and safety in explosive atmospheres.

Technical Information	CD0-50	CD0-50B	CD0-200B	CD0-300B
Power (kW)	0.37	0.37	0.75	1.5
Torque (Nm)	92	73	143	332
Output Speed (R.P.M.)	24	28	28	28
Environmental Protection	IP.54	IP.54	IP.54	IP.54
Current (Amps)	1.1	1.1	1.9	3.8
Power Supply	400V 3ph 50Hz			

MDF Exd Operators

The MDF Exd motors are specially designed for optimal performance in hazardous areas, offering reliable operation and safety in explosive atmospheres.

Technical Information	MDF 20-22-12 Exd	MDF 30-40-15 Exd	MDF 50-75-10 Exd
Power(Kw)	0.75	1.1	1.5
Torque (Nm)	220	400	750
Output Speed (rpm)	12	15	10
Operating Voltage/ Phase	400V 3ph 50Hz	400V 3ph 50Hz	400V 3ph 50Hz
Motor Current (A)	2.1	2.4	3.8
Protection Rating (IP)	55	55	55
Temperature Range (°C)	-5 / +40	-5 / +40	-5 / +40

STA Exd Operators

The STA Exd motors are specially designed for optimal performance in hazardous areas, offering reliable operation and safety in explosive atmospheres.

Technical Information	STA 1-11-24 Exd
Power(Kw)	0.55
Torque (Nm)	110
Output Speed (rpm)	24
Operating Voltage/ Phase	400V 3ph 50Hz
Motor Current (A)	1.6
Protection Rating (IP)	54
Temperature Range (°C)	-5 / +40

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Product Features

CDO, MDF, STA Exd Operators









Mechanical limit switches Mechanical limit switches Can be combined with encapsulated (MDF) encapsulated (STA)

ATEX control

Can be combined with ATEX accessories



Mechanical limit switches encapsulated (MDF)

Technical Data

Technical Data for EXI Safety Beam

The EXI Safety Beam retroreflective photocell is a safety device from the hazardous area equipment range that is to be used in instrinsically safe barriers in explosive environments.

EXI Safety Beam	
2 m (6.5 ft)	
680 nm, visible red (Range: 9 m (30 ft)	
nstant Current ≤ 1.2 mA dark ≥ 2.1 mA light	
5-15 V dc	
EEx ia IIC T6	
IP 67	

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