



# STSmotors

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## Explosion-Proof DC Motors

### PM Type Frame BM6KN/PM ATEX Approved EEXd 11A, 11B



#### APPLICATION

STSmotors explosion-proof motors are designed for use where flammable or explosive substances (as gas vapours or mist) are processed, handled or stored and where during normal operations an explosive or flammable concentration is likely to occur in sufficient quantity to produce a hazard.

#### CERTIFICATION

These designs are ATEX certified to Directive 94/9/EC Group 11 Category 2 and comply with the requirements of EN50014 and EN50018, certified Zone 1 EEXd Group 11A, 11B T4 temperature Class.

#### RATINGS AND PERFORMANCE

The ratings and performance of STSmotors are to EN60034-1 1998.

#### INSULATION CLASS

Motors are wound with Class H insulation with Class F rise. For operation in an ambient temperature range of -20°C. to +40°C.

#### SUPPLIES

12—180v (battery or pure DC)  
12-180v DC with form factors up to 1.5 (reduced output without smoothing choke).

#### ENCLOSURE AND COOLING

Protection to IP54 as standard.  
Protection to IP56 available.  
Cooling to IC 0041.

#### MOUNTING ARRANGEMENTS

Motors are available with foot and/or flange mountings with D type or C face mounting with metric dimensions to IEC 72-1.

#### TYPICAL RATINGS (kW) 12V to 48V

Form Factor	1.05	1.05	1.05
Speed / Volts	12v	24v	48v
1500	0.37 kW	0.75 kW	1.00 kW
2000	0.37 kW	0.75 kW	1.00 kW
3000	0.56 kW	0.90 kW	1.10 kW

#### TYPICAL RATINGS (kW) 90V to 180V

Form Factor	1.05	1.05	1.50
Speed / Volts	90v	180v	90/180v
1500	1.00 kW	1.10 kW	0.56 kW
2000	1.00 kW	1.10 kW	0.56 kW
3000	1.20 kW	1.20 kW	0.75 kW

These are typical ratings for S1 continuously rated motors. Increased outputs for S2 short time rated motors are available.

#### Other machines manufactured by STSmotors

ATEX approved AC motors  
BASEEFA certified DC motors 1.5—15 kW  
Safe area DC motors 0.25—150 kW  
DC generators and dynamometers

Please contact our Sales Department for other supply voltages or for alternative duties.

