

# Technical Data Sheet

Brushless motor FBM 4000 Ex



More than just pumps



## Advantages/characteristics:

- ▶ Brushless motor
- ▶ Increased duration possible
- ▶ Very low wear
- ▶ Maintenance-free
- ▶ Low life cycle costs
- ▶ With infinitely speed adjustment
- ▶ Very low noise level
- ▶ An extremely tough housing with double skin in aluminium
- ▶ With integrated no-volt release
- ▶ With soft-start



| Technical data/type                     | FBM 4000 Ex                  |
|---|------------------------------|
| Motor type                              | Single phase brushless motor |
| Housing, material                       | Aluminium, painted           |
| Venting                                 | Externally ventilated        |
| Motor protection                        | Circuit breaker              |
| Low-voltage protection                  | Yes                          |
| Speed setting, stepless                 | Yes                          |
| Power supply cable (100 - 240 V)        | H 07 RN-F 3G 1,5             |
| Power supply cable (12 - 24 V)          | -                            |
| Power supply cable (42 V)               | -                            |
| Standard cable length (m) <sup>1)</sup> | 5                            |
| Standard plug <sup>2)</sup>             | CEE 7 / 7 <sup>3)</sup>      |
| Weight (kg)                             | 6,1                          |

| Certificates                                    |                           |
|---|---------------------------|
| Operation category as per EN 60034-1 (VDE 0530) | S1 (continuous operation) |
| Protection class as per DIN EN 60 529           | IP 55                     |
| EC-type examination certificate number          | PTB 10 ATEX 1054 X        |
| Operating range                                 |                           |
| Operating temperature (°C)                      | -20 bis +40               |

1) Other cable lengths available on request    2) Other plugs available on request    3) For applications outside hazardous areas

| Nominal data for FBM 4000 Ex, output 600 Watt |                        |
|---|------------------------|
| Nominal voltage (V)                           | 230                    |
| Nominal frequency (Hz)                        | 50 - 60                |
| Nominal output (W)                            | 600                    |
| Nominal speed (R/min)                         | 9.200                  |
| Nominal current (A)                           | 4,2                    |
| Protection class                              | I                      |
| Ex-marking                                    | II 2G Ex d e IIC T5 Gb |

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## Brushless motor FBM 4000 Ex

### Design:



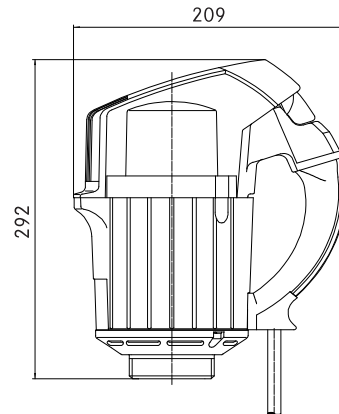
### FBM 4000 Ex externally ventilated with double housing.

The cooling air flows through the chambers of the double housing. The interior of the motor is thereby completely protected against corrosion of electrical components, e.g. from ambient air steam, like in electroplating units.



The arrows show the direction of the cooling air through the chambers of the double housing.

### Dimensions [mm]:



### Part numbers:

| Voltage (Volt)  | Frequency (Hz) | Output (Watt) | Cable length (m) | Plug CEE 7/7 | Part no.      |
|---|----------------|---------------|------------------|--------------|---------------|
| <b>Motor FBM 4000 Ex with speed control and no-volt release</b> |                |               |                  |              |               |
| 230   | 50-60          | 600           | 5                | Ja           | 10-400 01 000 |
|   |                |               | 5                | -            | 10-400 01 001 |