

Suitable motors

For the FLUX pumps of the series 300, 400 and 500



| Pump series/-type | 300 | | | 400 and F 500 GS | | | | | F 500 S | | | F 550 GS6 | |
|--------------------------------|--|---|--|---|--|--|--|---|--|---|---|--|---|
| Suitable motors Type | Battery (brushless) | Commutator | | | | | Brushless | Three-phase | Compressed air | | Three-phase | | |
| Motor type | FBM-B 3100 | FEM 3070 | FEM 4070 | F 457 | F 458 | F 460 Ex | FBM 4000 Ex | F 414 | F 416 Ex | FPM | DSM | Spur gear | F 403 |
| Image | | | | | | | | | | | | | |
| Protection class | IP 44 | IP 24 | IP 24 | IP 24 | IP 55 | IP 55 | IP 55 | IP 55 | IP 55 | IP 55 | IP 55 | IP 54 | IP 55 |
| Ex-marking | - | - | - | - | - | II 2 G Ex d e IIC T6 | II 2 G Ex d e IIC T5 Gb | - | II G cp IIC T6 | II 2 G c T5 | II 2 G Ex e II T3/T4 | - | II 2 G Ex e II T3/T4 |
| Certificates | | | | | | | | | | | | | |
| Venting | External | Internal | Internal | Internal | External | External | External | External | Compressed air | Compressed air | External | External | External |
| Voltage (volts) Frequency | 110 - 120/ 220 - 240 V 50 - 60 Hz | 100/110/120/230/240 V 50 - 60 Hz | | 110/120/ 230/240 V 50 - 60 Hz | 12/24/110/120/230/240 V 50 - 60 Hz | | 230 V 50 - 60 Hz | 230/400 V 50 Hz | 6 bar air pressure | | 230/400 V 50 Hz | 380 - 500 V 100 Hz | 230/400 V 50 Hz |
| Power (watts) | 100 | 230 | 500 | 800 | 460/700 | 460/700 | 600 | 550/750/1 100 | 470 | 600 - 2 000 | 800 - 1 100 | 55 - 550 | 550 |
| Speed setting | Variable | 2 steps | Stepless | Optional | Optional | Optional | Stepless | - | Optional | Via air volume | - | Stepless | - |
| Weight (kg) | 1.2 | 1.5 | 2.6 | 4 | 5.1/5.9 | 5.1/5.9 | 6.2 | 8.8 - 12.8 | 0.9 - 1.4 | 5 - 10 | 12.5 - 23 | 11.9 | 8 |
| Low voltage protection | - | - | Optional | Optional | Optional | Optional | Yes | - | - | - | - | - | - |
| Advantages/ characteristics | <ul style="list-style-type: none"> ▶ Brushless battery motor ▶ No mains connection required ▶ Can be utilised immediately at will ▶ Long battery runtime up to 120 min ▶ Maintenance-free ▶ Battery charged within 30 min ▶ Li-Ion battery ▶ Awarded with the iF Product Design and red dot awards | <ul style="list-style-type: none"> ▶ Commutator motor ▶ With mains connection ▶ Also for filling small quantities ▶ Low overall weight ▶ Connection between motor and pump via quick-action coupling | <ul style="list-style-type: none"> ▶ Commutator motor ▶ Low noise level ▶ With infinitely variable rpm adjustment ▶ Compact construction ▶ Low weight ▶ Awarded with iF Product Design Award | <ul style="list-style-type: none"> ▶ Commutator motor ▶ Most powerful drum pump motor ▶ Low noise level ▶ F 457 EL: with infinitely variable rpm adjustment | <ul style="list-style-type: none"> ▶ Commutator motor ▶ Extremely tough housing in aluminium ▶ With acid-proof finish ▶ Extremely low noise ▶ Motor is completely encapsulated ▶ F 458: 460 watts ▶ F 458-1: 700 watts ▶ F 458 EL: with infinitely variable rpm adjustment | <ul style="list-style-type: none"> ▶ Commutator motor ▶ Extremely tough housing in aluminium ▶ Motor is completely encapsulated ▶ F 460 Ex: 460 watts ▶ F 460-1 Ex: 700 watts ▶ F 460 Ex EL: 460 watts with infinitely variable rpm adjustment | <ul style="list-style-type: none"> ▶ Brushless motor ▶ Extremely low wearing ▶ Maintenance-free ▶ Low life-cycle costs ▶ With infinitely variable rpm adjustment ▶ Especially low noise ▶ Extremely tough housing with double skin in aluminium | <ul style="list-style-type: none"> ▶ Three-phase gear motor ▶ Increased running period possible ▶ Available with motor protection switch or terminal box ▶ Constant rpm | <ul style="list-style-type: none"> ▶ Compressed air motor ▶ Extremely light and easy to handle ▶ Extremely powerful ▶ F 416: with adjustable tip valve ▶ F 416-1: without valve ▶ F 416-2: with ball valve | <ul style="list-style-type: none"> ▶ Compressed air motor ▶ Extremely powerful ▶ Cool running ▶ FPM 4: 0.6 kW at 6 bars for media up to 25 000 mPas ▶ FPM 6: 1.2 kW at 6 bars for media up to 50 000 mPas ▶ FPM 8: 2 kW at 6 bars also for paste-like media | <ul style="list-style-type: none"> ▶ Three-phase motor ▶ Constant rpm ▶ Extremely low noise ▶ Available with 700 rpm or 930 rpm | <ul style="list-style-type: none"> ▶ Spur gear drive motor ▶ With frequency control ▶ Adjustable speed 47-472 rpm | <ul style="list-style-type: none"> ▶ Three-phase motor ▶ Low wearing ▶ Constant rpm ▶ Extremely low noise ▶ With speed 2 850 rpm for media with viscosity of up to 30 000 mPas ▶ With speed 1 450 rpm for media with viscosity of up to 80 000 mPas |
| Details | More | More | More | More | More | More | More | More | More | More | More | More | More |