

# 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 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)<br>Frequency   | 110 - 120/<br>220 - 240 V<br>50 - 60 Hz  | 100/110/120/230/240 V<br>50 - 60 Hz   |  | 110/120/<br>230/240 V<br>50 - 60 Hz   | 12/24/110/120/230/240 V<br>50 - 60 Hz  |  | 230 V<br>50 - 60 Hz  | 230/400 V<br>50 Hz  | 6 bar air pressure   |   | 230/400 V<br>50 Hz  | 380 - 500 V<br>100 Hz  | 230/400 V<br>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/<br>characteristics | <ul style="list-style-type: none"> <li>▶ Brushless battery motor</li> <li>▶ No mains connection required</li> <li>▶ Can be utilised immediately at will</li> <li>▶ Long battery runtime up to 120 min</li> <li>▶ Maintenance-free</li> <li>▶ Battery charged within 30 min</li> <li>▶ Li-Ion battery</li> <li>▶ Awarded with the iF Product Design and red dot awards</li> </ul> | <ul style="list-style-type: none"> <li>▶ Commutator motor</li> <li>▶ With mains connection</li> <li>▶ Also for filling small quantities</li> <li>▶ Low overall weight</li> <li>▶ Connection between motor and pump via quick-action coupling</li> </ul> | <ul style="list-style-type: none"> <li>▶ Commutator motor</li> <li>▶ Low noise level</li> <li>▶ With infinitely variable rpm adjustment</li> <li>▶ Compact construction</li> <li>▶ Low weight</li> <li>▶ Awarded with iF Product Design Award</li> </ul> | <ul style="list-style-type: none"> <li>▶ Commutator motor</li> <li>▶ Most powerful drum pump motor</li> <li>▶ Low noise level</li> <li>▶ F 457 EL: with infinitely variable rpm adjustment</li> </ul> | <ul style="list-style-type: none"> <li>▶ Commutator motor</li> <li>▶ Extremely tough housing in aluminium</li> <li>▶ With acid-proof finish</li> <li>▶ Extremely low noise</li> <li>▶ Motor is completely encapsulated</li> <li>▶ F 458: 460 watts</li> <li>▶ F 458-1: 700 watts</li> <li>▶ F 458 EL: with infinitely variable rpm adjustment</li> </ul> | <ul style="list-style-type: none"> <li>▶ Commutator motor</li> <li>▶ Extremely tough housing in aluminium</li> <li>▶ Motor is completely encapsulated</li> <li>▶ F 460 Ex: 460 watts</li> <li>▶ F 460-1 Ex: 700 watts</li> <li>▶ F 460 Ex EL: 460 watts with infinitely variable rpm adjustment</li> </ul> | <ul style="list-style-type: none"> <li>▶ Brushless motor</li> <li>▶ Extremely low wearing</li> <li>▶ Maintenance-free</li> <li>▶ Low life-cycle costs</li> <li>▶ With infinitely variable rpm adjustment</li> <li>▶ Especially low noise</li> <li>▶ Extremely tough housing with double skin in aluminium</li> </ul> | <ul style="list-style-type: none"> <li>▶ Three-phase gear motor</li> <li>▶ Increased running period possible</li> <li>▶ Available with motor protection switch or terminal box</li> <li>▶ Constant rpm</li> </ul> | <ul style="list-style-type: none"> <li>▶ Compressed air motor</li> <li>▶ Extremely light and easy to handle</li> <li>▶ Extremely powerful</li> <li>▶ F 416: with adjustable tip valve</li> <li>▶ F 416-1: without valve</li> <li>▶ F 416-2: with ball valve</li> </ul> | <ul style="list-style-type: none"> <li>▶ Compressed air motor</li> <li>▶ Extremely powerful</li> <li>▶ Cool running</li> <li>▶ FPM 4: 0.6 kW at 6 bars for media up to 25 000 mPas</li> <li>▶ FPM 6: 1.2 kW at 6 bars for media up to 50 000 mPas</li> <li>▶ FPM 8: 2 kW at 6 bars also for paste-like media</li> </ul> | <ul style="list-style-type: none"> <li>▶ Three-phase motor</li> <li>▶ Constant rpm</li> <li>▶ Extremely low noise</li> <li>▶ Available with 700 rpm or 930 rpm</li> </ul> | <ul style="list-style-type: none"> <li>▶ Spur gear drive motor</li> <li>▶ With frequency control</li> <li>▶ Adjustable speed 47-472 rpm</li> </ul> | <ul style="list-style-type: none"> <li>▶ Three-phase motor</li> <li>▶ Low wearing</li> <li>▶ Constant rpm</li> <li>▶ Extremely low noise</li> <li>▶ With speed 2 850 rpm for media with viscosity of up to 30 000 mPas</li> <li>▶ With speed 1 450 rpm for media with viscosity of up to 80 000 mPas</li> </ul> |
| Details                        | <a href="#">More</a>   | <a href="#">More</a>  | <a href="#">More</a>   | <a href="#">More</a>  | <a href="#">More</a>   | <a href="#">More</a>   | <a href="#">More</a>   | <a href="#">More</a>  | <a href="#">More</a>   | <a href="#">More</a>  | <a href="#">More</a>  | <a href="#">More</a>   | <a href="#">More</a>  |