

Suitable motors

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



Pump series/-type	300		400 and VISCOPOWER										
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) 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▶ Low-maintenance▶ 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