



**BRUSHLESS MOTOR TYPE FBM 4000 EX**

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# NEW

**Brushless, explosion-proof, ease of control – these are the salient features of the new FLUX Barrel Pump Motor Type FBM 4000 Ex.**

Barrel and Container Pumps are used in almost every sector of the processing and manufacturing industries. Initially designed for decanting and transfer operations of differing liquids from barrels and containers, current production time scales are now requiring these pumps to be used on applications with extended run times and frequent stopping and starting.

These, more arduous uses, are exactly the applications the new brushless motor Type FBM 4000 Ex has been designed for. For either continuous or intermittent use, or even precise dispensing operations: the new brushless motor is ideally suited.

The design brief called for a technically innovative motor that should not only have a lightweight and compact design, but also have a robust construction and comply with current and predicted international standards.

To meet this design criteria, the FLUX design engineers used the shell of the well-proven F 460 Ex commutator motor as the foundation of the new FBM 4000 Ex unit. Incorporated into the body of the brushless motor are all the electronic sensing and control components.

Externally the new FBM 4000 Ex differs only by its silver paint finish from the F 460 Ex, no small achievement, giving credit to the design engineer's expertise.



### FEATURES AND BENEFITS OF THE NEW BRUSHLESS MOTOR TYPE FBM 4000 EX:

- brushless motor design, no carbon brushes to replace and brush gear to maintain
- explosion-proof, tested and certified according to Directive 94/9/EC - ATEX 100a – EC Type Examination Certificate No. PTB 03 ATEX 1042.
- combined on/off switch and easy to use speed controller
- no-volt release safety circuit monitors the power and prevents unintentional re-start of the pump; this feature ensures additional safety for the user
- electronic monitoring of speed, voltage and temperature
- electronic overload protection
- robust, double shell motor housing in aluminium alloy
- very low noise level
- suitable for continuous use
- lowest cost of ownership, due to negligible wear
- progressive, ergonomic design; ease of use for the operator
- to be used in connection with all FLUX Barrel and Container Pumps Type F 424 to F 430, as well as with Eccentric worm-drive Pumps Type F 550 GS with planetary gear



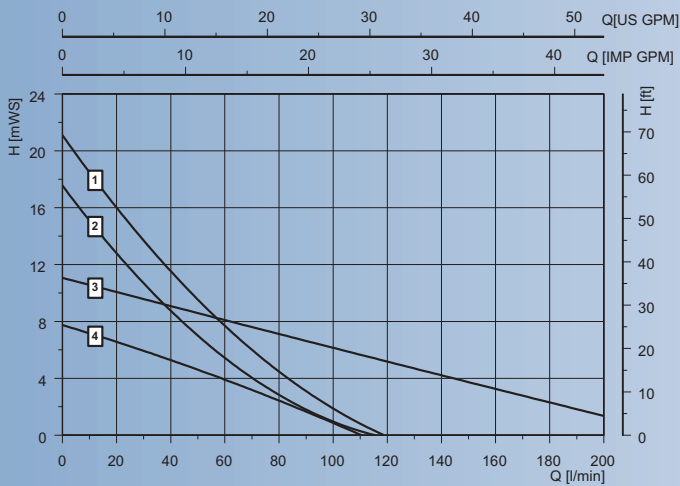
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## TECHNICAL DATA

### Brushless Barrel Pump Motor Type FBM 4000 Ex

Capacity:	600 Watt
Voltage:	230 Volt, 50-60Hz
Design:	no-volt release safety circuit, explosion-proof to II 2G EEx de IIC T6, jet-proof to IP 55, protection class I, with power supply cable, 5 m long, and safety plug (not explosion-proof and may vary subject to national regulations)
Part No./Weight	400 01 000/6,2 kg

### PERFORMANCE CHART OF THE NEW BRUSHLESS MOTOR TYPE FBM 4000 EX IN CONNECTION WITH FLUX BARREL AND CONTAINER PUMPS:

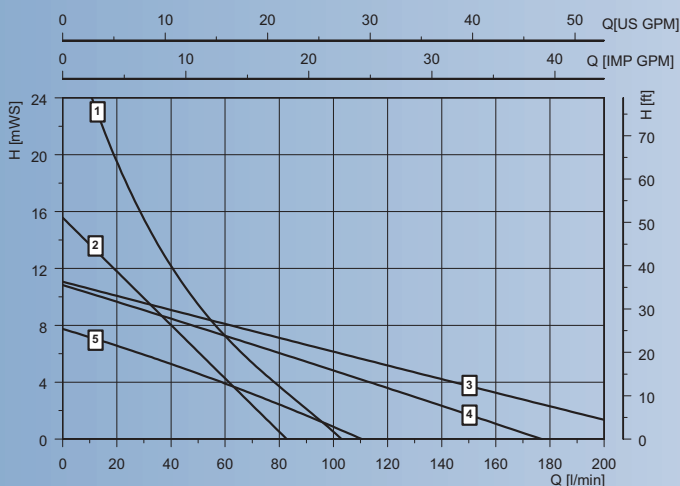


1 F 424 S-50/45 Z  
F 430 S-50/45 Z

2 F 424 S-43/37 Z  
F 430 AL-41/37 Z  
F 430 S-41/37 Z

3 F 424 S-43/38  
F 426 S-41/38  
F 427 S-43/38  
F 430 AL-41/38  
F 430 S-41/38  
F 430 S-50/38  
F 430 HC-40/38

4 F 425 S-41/34



1 F 424 PP-50/43 Z  
F 430 PP-50/43 Z  
F 430 PVDF-50/43 Z

2 F 424 PP-41/35 Z  
F 424 PVDF-41/35 Z  
F 430 PP-40/33 Z  
F 430 PVDF-40/33 Z

3 F 424 PP-50/38  
F 424 PVDF-50/38  
F 430 PP-50/38  
F 430 PVDF-50/38

4 F 424 PP-41/36  
F 424 PVDF-41/36  
F 426 PP-50/33  
F 430 PP-40/33  
F 430 PVDF-40/33

5 F 425 PP-50/34



Please ask for more information on FLUX Barrel and Container Pumps and FLUX High Viscosity Liquid Pumps. We would be glad to send you our detailed catalogues.



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## WORLD OF PUMPS – PUMPS FOR THE WORLD

All around the globe, FLUX is synonymous with top standards in pump technology. Whether it is barrel pumps, high viscosity liquid pumps, vertical centrifugal immersion pumps, air-operated diaphragm pumps, liquid meters, mixers or top class accessories – FLUX with its complete and comprehensive range is always the one to address to. Benefit from our competence. We look forward to hearing from you!



### FLUX-GERÄTE GMBH

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