

# 4FK

## 4" encapsulated FRANKLIN ELECTRIC submersible motors

 Domestic use

 Civil use

 Industrial use



### PERFORMANCE

- Power from **0.37** to **7.5 kW**

### APPLICATION LIMITS

- Maximum liquid temperature **+35 °C**
- **100 m** immersion limit
- Starts/hour: **20** at regular intervals
- Minimum flow rate for motor cooling **8 cm/s**
- Continuous service **S1**

### ELECTRIC MOTOR

- 2 pole electric motor, 50 Hz (n ~ 2900 rpm)
- Voltage:
  - single-phase **230 V** up to 2.2 kW
  - three-phase **400 V**
- Insulation: class B
- Protection: IP 68

### CONSTRUCTION AND SAFETY STANDARDS

- Encapsulated water filled submersible motors
- Dimensions of the flange connection in accordance **NEMA** standards.

Complete with power cable of the following length:

- **1.5m** powers from 0.37 to 3 kW
- **2.5 m** powers from 4 to 7.5 kW

⇒ **Capacitor not included for single-phase versions.**

EN 60034-1  
IEC 60034-1  
CEI 2-3



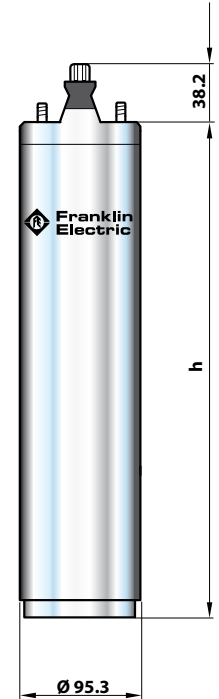
### OPTIONS AVAILABLE ON REQUEST

- Other voltages

## PERFORMANCE DATA

### Single-phase versions

MODEL	Rated power P <sub>2</sub>		Axial load N	Revs rpm	Starting current Rated current	Power factor cos φ	Capacitor (VL=450V) μF	h mm	Weight kg
	kW	HP							
<b>230 V / 50 Hz</b>									
<b>4FKm / 0.50</b>	0.37	0.50	4000	2860	3.8	0.91	16	251.1	7.9
<b>4FKm / 0.75</b>	0.55	0.75		2850	4.1	0.94	20	276.2	9.1
<b>4FKm / 1</b>	0.75	1		2845	4.0	0.98	35	297.2	10.0
<b>4FKm / 1.5</b>	1.1	1.5		2845	4.0	0.92	40	321.2	11.2
<b>4FKm / 2</b>	1.5	2		2830	3.9	0.95	50	353.2	12.6
<b>4FKm / 3</b>	2.2	3	4000	2840	4.2	0.97	70	451.2	17.4



### Three-phase versions

MODEL	Rated power P <sub>2</sub>		Axial load N	Revs 1/min	Starting current Rated current	Power factor cos φ	h mm	Weight kg
	kW	HP						
<b>400 V / 50 Hz</b>								
<b>4FK / 0.50</b>	0.37	0.5	4000	2870	4.9	0.74	237.2	6.3
<b>4FK / 0.75</b>	0.55	0.75		2870	4.6	0.74	251.1	7.2
<b>4FK / 1</b>	0.75	1		2865	5.3	0.77	271.2	8.0
<b>4FK / 1.5</b>	1.1	1.5		2850	5.7	0.78	297.2	9.3
<b>4FK / 2</b>	1.5	2		2855	5.3	0.78	321.2	10.3
<b>4FK / 3</b>	2.2	3	4000	2845	5.4	0.77	353.2	11.8
<b>4FK / 4</b>	3	4		2845	5.6	0.77	408.2	14.3
<b>4FK / 5.5</b>	4	5.5		2840	5.8	0.77	543	20.0
<b>4FK / 7.5</b>	5.5	7.5	6500	2865	6.1	0.81	693	26.6
<b>4FK / 10</b>	7.5	10		2855	5.8	0.81	731	30.6

## ABSORPTION

MODEL	VOLTAGE
<b>Single-phase</b>	230 V
<b>4FKm / 0.50</b>	3.3 A
<b>4FKm / 0.75</b>	4.3 A
<b>4FKm / 1</b>	5.7 A
<b>4FKm / 1.5</b>	8.4 A
<b>4FKm / 2</b>	10.7 A
<b>4FKm / 3</b>	14.7 A

MODEL	VOLTAGE
<b>Three-phase</b>	400 V
<b>4FK / 0.50</b>	1.1 A
<b>4FK / 0.75</b>	1.6 A
<b>4FK / 1</b>	2.0 A
<b>4FK / 1.5</b>	2.8 A
<b>4FK / 2</b>	3.9 A
<b>4FK / 3</b>	5.5 A
<b>4FK / 4</b>	7.5 A
<b>4FK / 5.5</b>	9.9 A
<b>4FK / 7.5</b>	12.6 A
<b>4FK / 10</b>	17.1 A