

# Technical Data Sheet

Commutator motors F 457, F 457 EL



More than just pumps



### Advantages/characteristics:

- ▶ Powerful commutator motor
- ▶ Low noise level
- ▶ Compact design
- ▶ Easy to handle
- ▶ Optionally with integrated no-volt release
- ▶ Very good air cooling
- ▶ F 457 EL: with stepless speed setting to regulate the rising medium



Technical data/type	F 457	F 457 EL
Motor type	Single phase universal motor	
Housing, material	Polypropylene	
Venting	Internally ventilated	
Motor protection	Circuit breaker	
Low-voltage protection	Optional	
Speed setting, stepless	No	Yes
Power supply cable (100 - 240 V)	H 05 RN-F 2X 1.0	
Standard cable length <sup>1)</sup>	16 ft (5 m)	
Standard plug <sup>2)</sup>	CEE 7 / 17	
Weight	8.8 lbs (4.0 kg)	

Certificates	
Operation category as per EN 60034-1 (VDE 0530)	S1 (continuous operation)
Protection class as per DIN EN 60 529	IP 24
Operating range	
Operating temperature	-4 - 104 °F (-20 - 40 °C)

1) Other cable lengths available on request    2) Other plugs available on request

Nominal data for F 457, output 800 Watt					
Nominal voltage (V) <sup>1)</sup>	240	230	120	110	
Nominal frequency (Hz)	50	50	50 - 60	60	50
Nominal output (W)	800				
Nominal speed (R/min)	9,000				
Nominal current (A)	3.7	3.8	3.8	7.5	7.8
Protection class	II	II	II	II	II

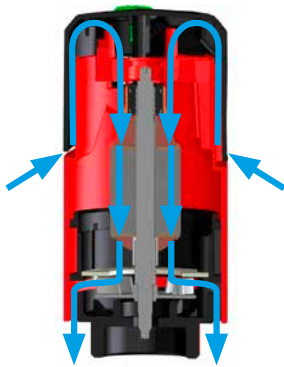
Nominal data for F 457 EL, output 800 Watt					
Nominal voltage (V)	240	230	120	110	
Nominal frequency (Hz)	50	50	60	50	
Nominal output (W)	800				
Nominal speed (R/min)	9,000				
Nominal current (A)	3.7	3.8	7.5	7.8	
Protection class	II	II	II	II	

1) The 230 V version without low-voltage protection can also be operated with 60 Hz.  
The speed is reduced by approx. 5 % (with the same input power). Power consumption increases by 5 %.

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## Design:

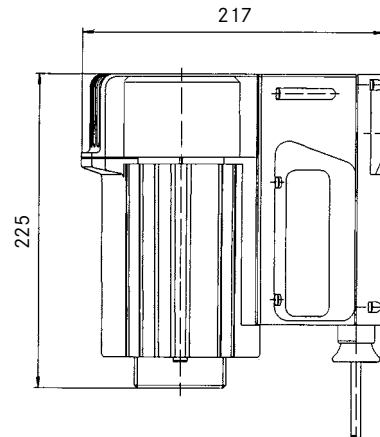


### F 457 internally ventilated.

The cooling air flows through the chambers of the double housing.

The arrows show the direction of the cooling air through the chambers of the double housing.

## Dimensions [mm]:



## Part numbers:

Voltage (Volt)	Frequency (Hz)	Output (Watt)	Cable length	Plug CEE 7/7	Part no.	
					Low-voltage protection	
Motor F 457, without speed setting					with	without
240	50	800	16 ft (5 m)	CEE 7/17	457 01 006	457 01 007
			16 ft (5 m)	-	457 01 013	457 01 012
			16 ft (5 m)	CEE 7/17	457 01 005	457 01 002
230	50		16 ft (5 m)	-	457 01 039	457 01 038
	50-60		16 ft (5 m)	CEE 7/17	-	457 01 037
120	60		16 ft (5 m)	NEMA 1-15P	457 01 004	457 01 000
110	50	16 ft (5 m)	CEE 7/17	457 01 009	457 01 010	
		16 ft (5 m)	-	457 01 015	457 01 014	
Motor F 457 EL, with speed setting					with	without
240	50	800	16 ft (5 m)	CEE 7/17	457 01 008	-
			16 ft (5 m)	-	457 01 016	-
230	50		16 ft (5 m)	CEE 7/17	457 01 003	457 01 041
			16 ft (5 m)	-	457 01 040	-
120	60		16 ft (5 m)	NEMA 1-15P	457 01 001	-
110	50		16 ft (5 m)	CEE 7/17	457 01 011	-
		16 ft (5 m)	-	457 01 017	-	

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