

# 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 (m) <sup>1)</sup>	5	
Standard plug <sup>2)</sup>	CEE 7/17	
Weight (kg)	4,0	

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 (°C)	-20 to +40

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

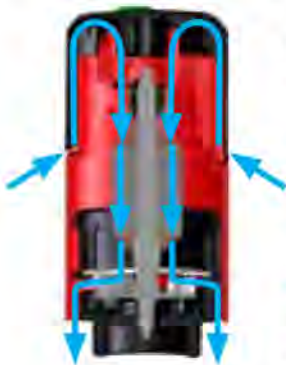
Nominal data for F 457 EL, output 800 Watt					
Nominal voltage (V)	240	230	120	110	
Nominal frequency (Hz)	50	50	60	50	
Nominal output (W)	800				
Nominal speed (R/min)	9 000				
Nominal current (A)	3,7	3,8	7,5	7,8	
Protection class	II	II	II	II	

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:

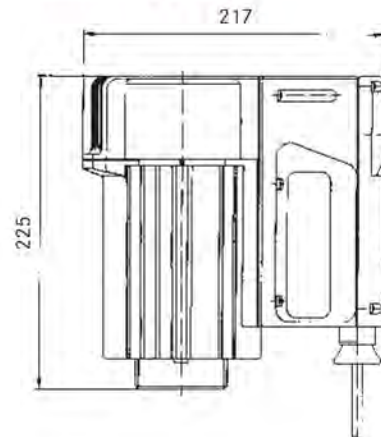


### F 457 internally ventilated.

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 (m)	Plug CEE 7/7	Part no.		
					Low-voltage protection with	Low-voltage protection without	
<b>Motor F 457, without speed setting</b>							
240	50	800	5	CEE 7/17	10-457 01 006	10-457 01 007	
			5	-	10-457 01 013	10-457 01 012	
230	50		5	CEE 7/17	10-457 01 005	10-457 01 002	
			5	-	10-457 01 039	10-457 01 038	
120	50-60		5	CEE 7/17	-	10-457 01 037	
	60		5	NEMA 1-15P	10-457 01 004	10-457 01 000	
110	50		5	CEE 7/17	10-457 01 009	10-457 01 010	
			5	-	10-457 01 015	10-457 01 014	
<b>Motor F 457 EL, with speed setting</b>							
240	50	800	5	CEE 7/17	10-457 01 008	-	
			5	-	10-457 01 016	-	
230	50		5	CEE 7/17	10-457 01 003	10-457 01 041	
			5	-	10-457 01 040	-	
120	60		5	NEMA 1-15P	10-457 01 001	-	
110	50		5	CEE 7/17	10-457 01 011	-	
			5	-	10-457 01 017	-	