

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 ¹⁾	16 ft (5 m)	
Standard plug ²⁾	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) ¹⁾	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

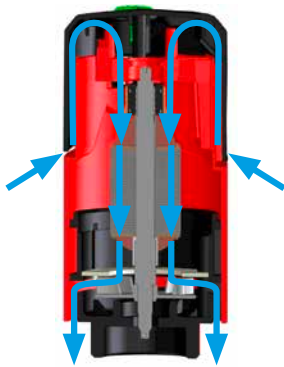
Nominal data for F 457 EL, output 800 Watt				
Nominal voltage (V)	240	230	120	110
Nominal frequency (Hz)	50	50	60	50
Nominal output (W)	800			
Nominal speed (R/min)	9,000			
Nominal current (A)	3.7	3.8	7.5	7.8
Protection class	II	II	II	II

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:

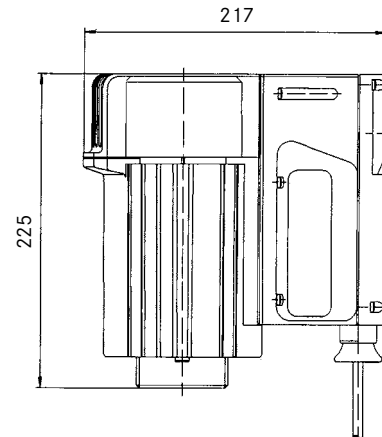


F 457 internally ventilated.

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	Part no.		
Motor F 457, without speed setting					Low-voltage protection		
					with	without	
240	50	800	16 ft (5 m)	CEE 7/17	10-45701069	10-45701070	
			16 ft (5 m)	-	10-45701076	10-45701075	
			16 ft (5 m)	CEE 7/17	10-45701068	10-45701065	
230	50		16 ft (5 m)	-	10-45701086	10-45701085	
	50-60		16 ft (5 m)	CEE 7/17	-	10-45701084	
120	60		16 ft (5 m)	NEMA 1-15P	10-45701067	10-45701063	
110	50		16 ft (5 m)	CEE 7/17	10-45701072	10-45701073	
			16 ft (5 m)	-	10-45701078	10-45701077	
Motor F 457 EL, with speed setting					Low-voltage protection		
					with	without	
240	50	800	16 ft (5 m)	CEE 7/17	10-45701071	-	
			16 ft (5 m)	-	10-45701079	-	
230	50		16 ft (5 m)	CEE 7/17	10-45701066	10-45701088	
			16 ft (5 m)	-	10-45701087	-	
120	60		16 ft (5 m)	NEMA 1-15P	10-45701064	-	
110	50		16 ft (5 m)	CEE 7/17	10-45701074	-	
			16 ft (5 m)	-	10-45701080	-	