

# 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

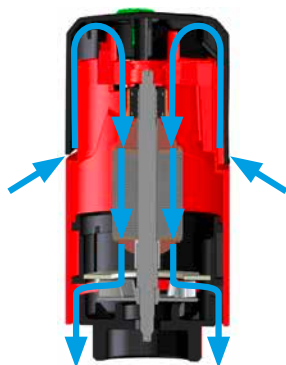
Nominal data for F 457 EL, output 800 Watt					
Nominal voltage (V)	240	230	120	110	
Nominal frequency (Hz)	50	50	60	50	
Nominal output (W)	800				
Nominal speed (R/min)	9 000				
Nominal current (A)	3,7	3,8	7,5	7,8	
Protection class	II	II	II	II	

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 %.

# Technical Data Sheet

Commutator motors F 457, F 457 EL

## Design:

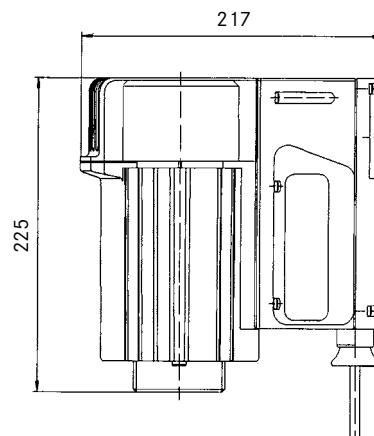


### F 457 internally ventilated.

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																																											
Motor F 457, without speed setting					with	without																																										
					<table border="1"> <tr> <td rowspan="2">240</td> <td rowspan="2">50</td> <td rowspan="10">800</td> <td>5</td> <td>CEE 7/17</td> <td>10-457 01 006</td> <td>10-457 01 007</td> </tr> <tr> <td>5</td> <td>-</td> <td>10-457 01 013</td> <td>10-457 01 012</td> </tr> <tr> <td rowspan="2">230</td> <td>50</td> <td>5</td> <td>CEE 7/17</td> <td>10-457 01 005</td> <td>10-457 01 002</td> </tr> <tr> <td>50-60</td> <td>5</td> <td>-</td> <td>10-457 01 039</td> <td>10-457 01 038</td> </tr> <tr> <td rowspan="2">120</td> <td rowspan="2">60</td> <td>5</td> <td>CEE 7/17</td> <td>-</td> <td>10-457 01 037</td> </tr> <tr> <td>5</td> <td>NEMA 1-15P</td> <td>10-457 01 004</td> <td>10-457 01 000</td> </tr> <tr> <td rowspan="2">110</td> <td rowspan="2">50</td> <td>5</td> <td>CEE 7/17</td> <td>10-457 01 009</td> <td>10-457 01 010</td> </tr> <tr> <td>5</td> <td>-</td> <td>10-457 01 015</td> <td>10-457 01 014</td> </tr> </table>					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	50-60	5	-	10-457 01 039	10-457 01 038	120	60	5	CEE 7/17	-	10-457 01 037	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
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																																					
	50-60		5	-						10-457 01 039	10-457 01 038																																					
120	60		5	CEE 7/17						-	10-457 01 037																																					
			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																																					
Motor F 457 EL, with speed setting										with	without																																					
					<table border="1"> <tr> <td rowspan="2">240</td> <td rowspan="2">50</td> <td rowspan="8">800</td> <td>5</td> <td>CEE 7/17</td> <td>10-457 01 008</td> <td>-</td> </tr> <tr> <td>5</td> <td>-</td> <td>10-457 01 016</td> <td>-</td> </tr> <tr> <td rowspan="2">230</td> <td rowspan="2">50</td> <td>5</td> <td>CEE 7/17</td> <td>10-457 01 003</td> <td>10-457 01 041</td> </tr> <tr> <td>5</td> <td>-</td> <td>10-457 01 040</td> <td>-</td> </tr> <tr> <td rowspan="2">120</td> <td rowspan="2">60</td> <td>5</td> <td>NEMA 1-15P</td> <td>10-457 01 001</td> <td>-</td> </tr> <tr> <td>5</td> <td>CEE 7/17</td> <td>10-457 01 011</td> <td>-</td> </tr> <tr> <td rowspan="2">110</td> <td rowspan="2">50</td> <td>5</td> <td>-</td> <td>10-457 01 017</td> <td>-</td> </tr> </table>					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	-	5	CEE 7/17	10-457 01 011	-	110	50	5	-	10-457 01 017	-	Low-voltage protection	
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	-																																					
			5	CEE 7/17						10-457 01 011	-																																					
110	50		5	-						10-457 01 017	-																																					