

# SEFL 90 B4 A6/3 F300 7,5kW 34°

## GENERAL DATA



LONG CASE AXIAL FAN 300°C/2H

MANUFACTURING FEATURES:

- Long case axial fan with reinforced body.
- Modular motor-impeller assembly. Cast aluminium impeller with variable pitch angle. Polyester powder finishing coat.
- Housing with motor access door for easy connection.
- Standard asynchronous squirrel-cage motor with IP-55 protection and Class H insulation certified 300°C/2h. Manufactured with standard voltages: 230/400V 50Hz in three phase motors up to 3kW and 400V 50Hz for higher powers and 2 speed motors. IE3 efficiency motor from 0,75kW up to 45kW in single speed

APPLICATIONS:

Designed for inline installation, they are suitable for:

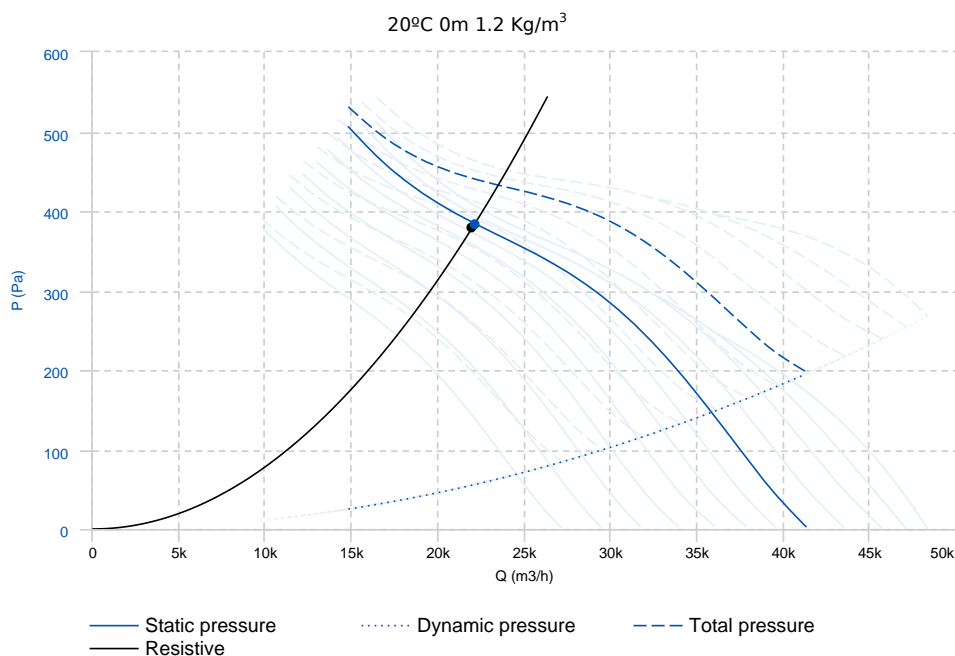
- Smoke emergency exhaust with motor inside the hazardous area.
- Maximum working temperature: 60°C.

UNDER REQUEST:

- Supply impeller (air direction from impeller to motor).
- 100% reversible impeller.

Official homologation by the European laboratory APPLUS according to EN 12101-3:2015 Certification Nr: 0370-CPR-2400

## PERFORMANCE CURVE



| Design point                    |          |
|---------------------------------|----------|
| Flow (m <sup>3</sup> /h)        | 22000    |
| Pressure (Pa)                   | 380      |
| Service point                   |          |
| Angle                           | 34       |
| T.max (°C)                      | 60       |
| Q (m <sup>3</sup> /h)           | 22124.98 |
| Ps (Pa)                         | 384.33   |
| Pd (Pa)                         | 55.98    |
| Pt (Pa)                         | 440.31   |
| Speed (m/s)                     | 9.66     |
| Security coefficient            | 1.31     |
| Fan total efficiency            | 43.561   |
| Mechanical total efficiency     | 47.89    |
| Pabs (kW) 1.2 Kg/m <sup>3</sup> | 6.31     |
| Pwmec (kW)                      | 5.74     |
| Precom (kW)                     | 7,5      |

## TECHNICAL DATA

### Fan

|     |  |                |          |           |            |
|-----|--|----------------|----------|-----------|------------|
| RPM |  | Approx. weight | 161.7 kg | Max. Flow | 48350 m3/h |
|-----|--|----------------|----------|-----------|------------|

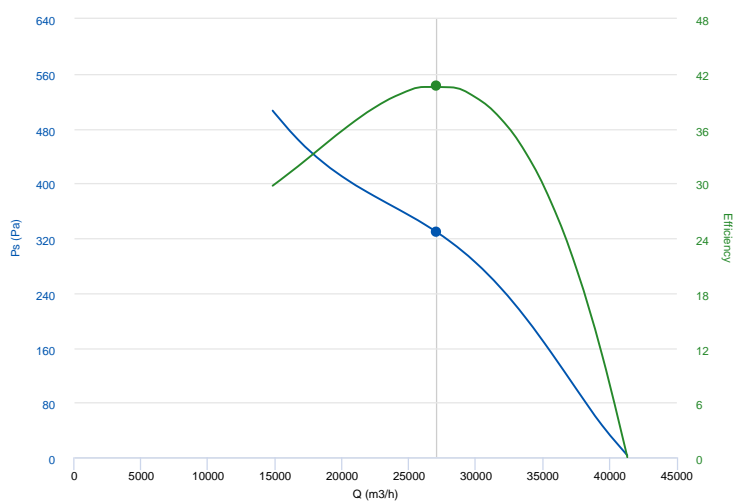
### Motor

|       |        |                |       |                |        |               |        |
|-------|--------|----------------|-------|----------------|--------|---------------|--------|
| Power | 7,5 kW | RPM            | 1455  | I max. (400V)  | 14,1 A | I max. (690V) | 8,17 A |
| Size  | 132M   | Approx. weight | 89 kg | Efficiency (%) | 89 %   | FP            | 0.86   |

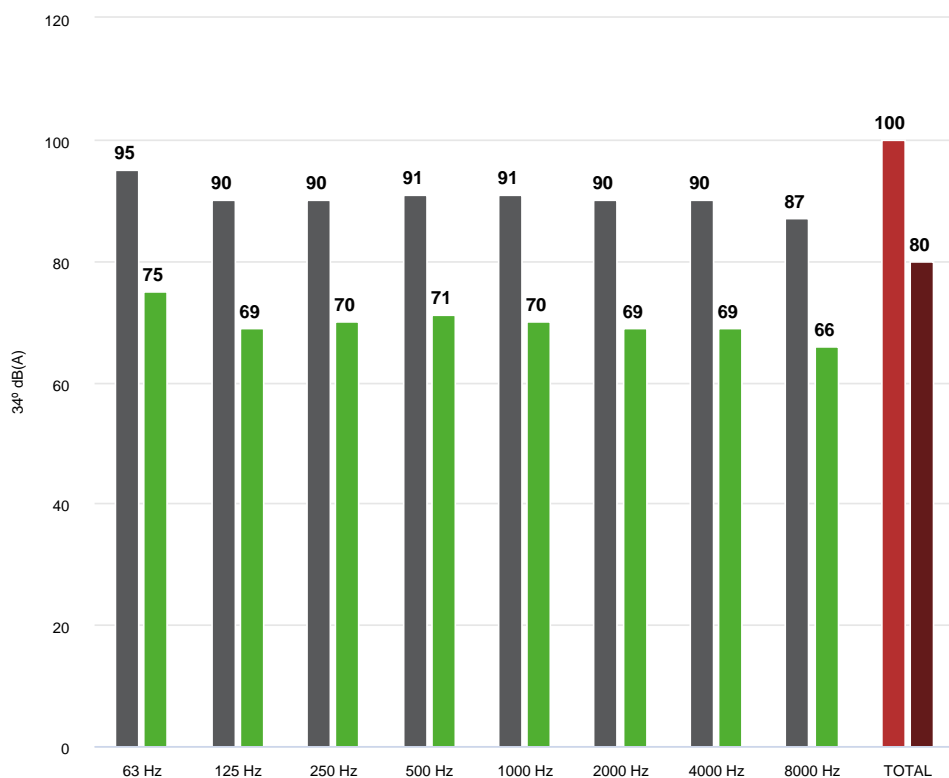
## ERP DATA

### Fan data sheet

| Fan type                            | Axial fan                          |                       |
|-------------------------------------|------------------------------------|-----------------------|
| Installation category               | A: Outlet and Inlet free discharge |                       |
| Efficiency category                 | Static                             |                       |
| The fan has to be installed with VF | No                                 |                       |
| Motor power (kW)                    | 7.5                                |                       |
|                                     | Fan values                         | ERP Requirements 2015 |
| Max. efficiency (%)                 | 40.65                              | 36.59                 |
| Efficiency grade (N)                | 42.06                              | 38                    |
| Pabs (kW)                           | 6.026                              |                       |
| reports.flow (m3/h)                 | 27055.27                           |                       |
| Static pressure (Pa)                | 328.88                             |                       |
| Speed (m/s)                         |                                    |                       |
| Specific ratio                      | 1.00                               |                       |



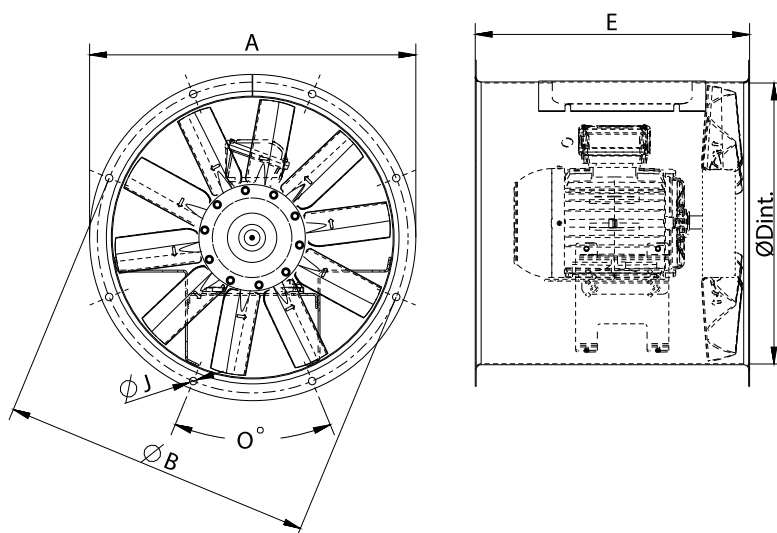
## ACOUSTIC DATA



| Sound power |     |
|-------------|-----|
| 63 Hz       | 95  |
| 125 Hz      | 90  |
| 250 Hz      | 90  |
| 500 Hz      | 91  |
| 1000 Hz     | 91  |
| 2000 Hz     | 90  |
| 4000 Hz     | 90  |
| 8000 Hz     | 87  |
| TOTAL       | 100 |

| Sound pressure 3m (in) |    |
|------------------------|----|
| 63 Hz                  | 75 |
| 125 Hz                 | 69 |
| 250 Hz                 | 70 |
| 500 Hz                 | 71 |
| 1000 Hz                | 70 |
| 2000 Hz                | 69 |
| 4000 Hz                | 69 |
| 8000 Hz                | 66 |
| TOTAL                  | 80 |

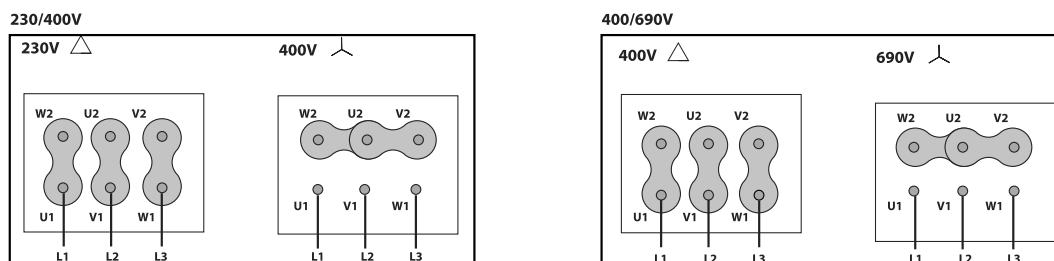
## DIMENSIONS



### Dimensions (mm)

|    |     |   |                      |    |      |    |     |    |       |
|----|-----|---|----------------------|----|------|----|-----|----|-------|
| E  | 820 | O | 16x22,5 <sup>a</sup> | ØA | 1000 | ØB | 970 | ØD | 903.5 |
| ØJ | 12  |   |                      |    |      |    |     |    |       |

## WIRING DIAGRAM



## ACCESSORIES



**PROTECTION GUARD FOR LONG CASE AXIAL FANS**  
OW 90



**CASE FANS MOUNTING SUPPORT**  
SM 90



**CONNECTION FLANGE**  
KP 900



**ANTI-VIBRATING FLANGE 400<sup>o</sup>/2H**  
ZP 400 90



**SILENCIADOR CIRCULAR**  
TL-C 900/900



**SILENCIADOR CIRCULAR**  
TL-C 900/1350



**SILENCIADOR CIRCULAR**  
TL-C 900/1800



**SILENCIADOR CIRCULAR**  
TL-CN 900/900



**SILENCIADOR CIRCULAR**  
TL-CN 900/1350



**SILENCIADOR CIRCULAR**  
TL-CN 900/1800



**CIRCULAR-CIRCULAR ANTI-VIBRATION FLANGE  
KA 18**