

FE2owlet

for three phase alternating current, 4-4 pole

FNO9 1-VD



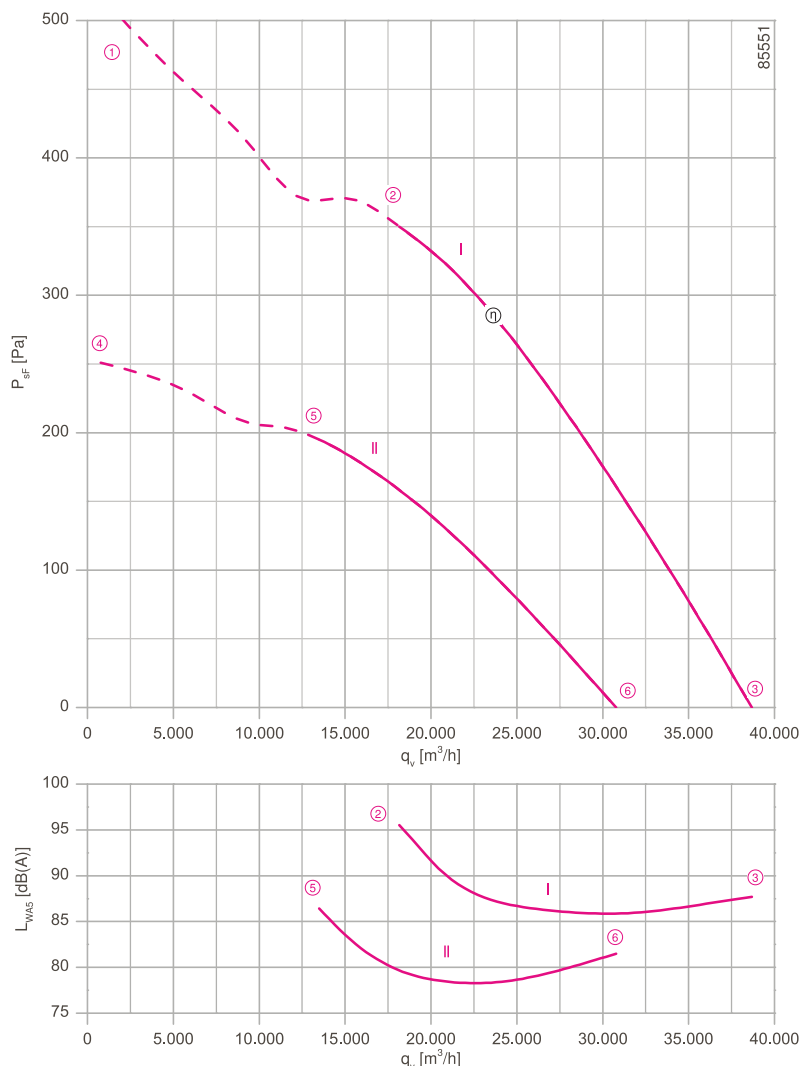
Description

Motor technology: AC
 Rated voltage U_N : 3- 400 V (Δ/Y) ± 10 %*
 Rated frequency f_N : 50 Hz*
 Motor input power P_1 : 5.20/3.10 kW*
 Rated current I_N : 8.80/5.00 A*
 Rated speed n_N : 1210/900 min⁻¹*
 Starting current I_s : 32.00 A / 10.00 A
 Current increase ΔI : 0 %
 Thermal class: THCL155*
 Min. permitted conveyor temperature $t_{R(min)}$: -40 °C
 Max. permitted conveyor temperature $t_{R(max)}$: 40 °C
 Electrical connection: Terminal box
 Number of blades: 5
 Protection class: IP54
 Motor protection: Thermal contact
 Blades: Aluminium, uncoated
 Rotor: Aluminium, uncoated
 Conformity: ErP 2015, CE
ErP Data
 Efficiency η_{statA} : 38.5 %
 Efficiency: $N_{actual} = 40.5 / N_{target} = 40$ **
 * Rated data
 **ErP 2015

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 for airflow direction V 1360-108XA
 for airflow direction A 1360-108XB

➤ System components Page 524

Characteristic curve

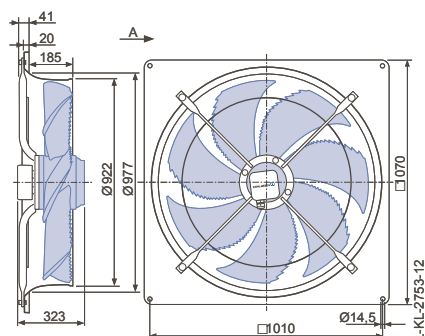


Measured in full bell mouth without guard grille in installation type A according to ISO 5801.

Dimensions [mm]

Airflow direction A

Design Q - square, full bell mouth

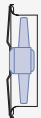
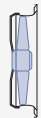




Performance data

| Type | Connection | Characteristic curve | Voltage | Operating point | Current | Motor input power | Speed | Suction side sound power level L_{WA5} [dB] |
|-----------------|------------|----------------------|---------|-----------------|---------|-------------------|------------------------|--|
| | | | U [V] | | I [A] | P_1 [W] | n [min ⁻¹] | |
| FN091-VD_7Q_5P1 | Δ | I | 400 | ① | 11.00 | 6800 | 1110 | 96 |
| | | | 400* | ② | 8.80* | 5200* | 1210* | |
| | | | 400 | ③ | 6.80 | 3800 | 1300 | |
| | Y | II | 400 | ④ | 5.80 | 3600 | 750 | 88 |
| | | | 400* | ⑤ | 5.00* | 3100* | 900* | |
| | | | 400 | ⑥ | 4.20 | 2500 | 1040 | |

*rated data

Fan ordering information

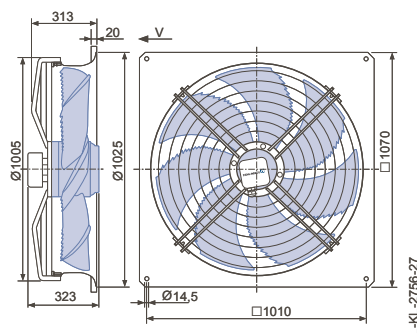
| Airflow direction A | | Airflow direction V | | |
|---------------------|---|---|---|---|
| Design | Q | Q | S | I |
| |  |  |  |  |
| Type | FN091-VDQ.7Q.A5P1 | FN091-VDQ.7Q.V5P1 | FN091-VDS.7Q.V5P1 | FN091-VDI.7Q.V5P1 |
| Article no. | 155924 | 155927 | 155926 | 155928 |
| Weight [kg] | 64.70 | 69.30 | 52.70 | 52.00 |

Control technology

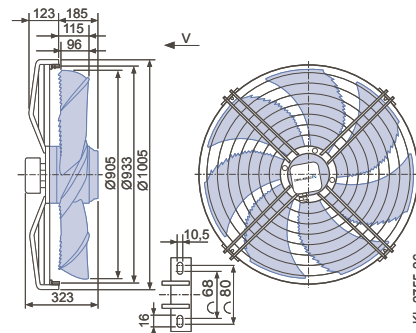
| | | | |
|--|---|--|---|
| <p>Frequency inverter Fcontrol 3~</p>  <p>➤ Page 558</p> | <p>Motor protection units 3~</p>  <p>➤ Page 596</p> | <p>Transformer-based controllers 3~</p>  <p>➤ Page 591</p> | <p>Electronic voltage controllers 3~</p>  <p>➤ Page 578</p> |
|--|---|--|---|

Airflow direction V

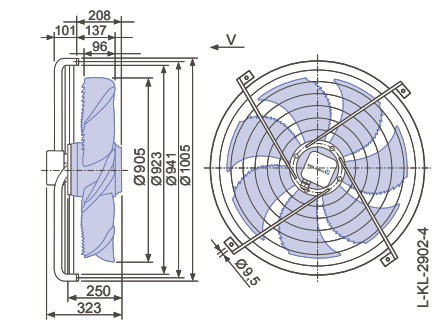
Design Q - square, full bell mouth



Design S - radially bolted, mounting for full bell mouth Q and L



Design I - axial bolted, mounting for bell mouth flange for pipe socket H or full bell mouth Q or L



FE2owlet

for three phase alternating current, 4-4 pole

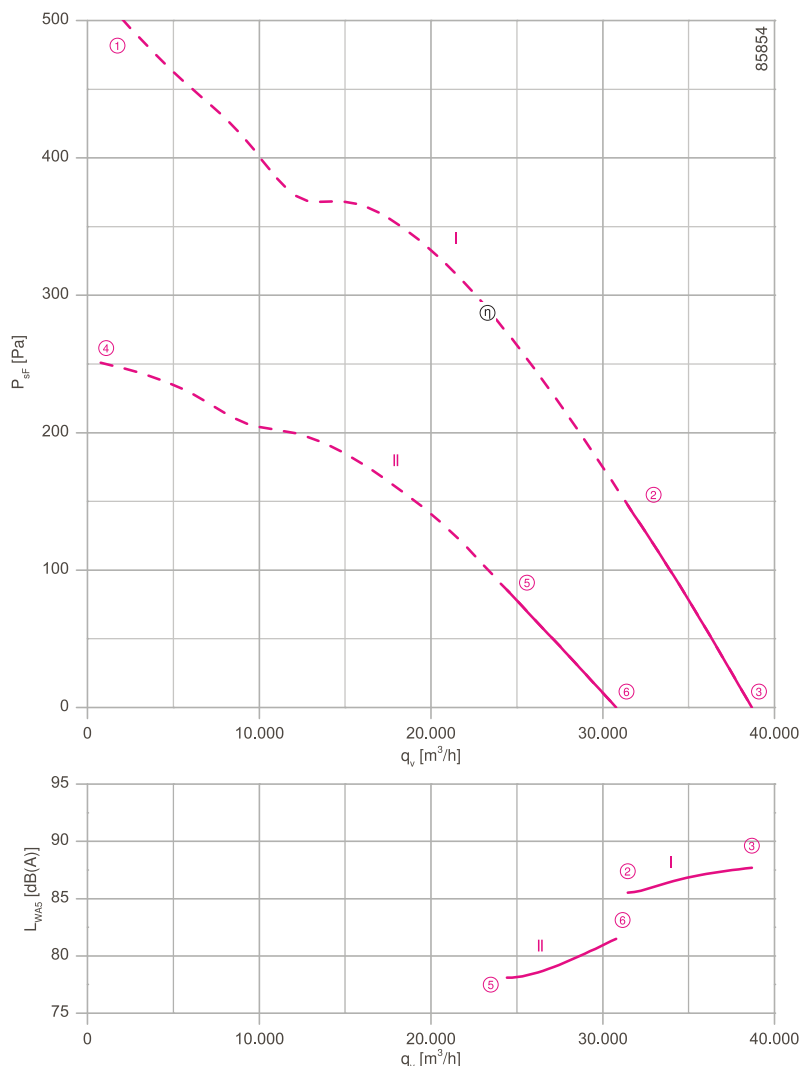
FNO9 1-VD



Description

Motor technology: AC
 Rated voltage U_N : 3- 400 V (Δ/Y) $\pm 10\%$ *
 Rated frequency f_N : 50 Hz*
 Motor input power P_1 : 4.60/2.80 kW*
 Rated current I_N : 7.80/4.60 A*
 Rated speed n_N : 1260/970 min⁻¹*
 Starting current I_s : 32.00 A / 10.00 A
 Current increase ΔI : 0 %
 Thermal class: **THCL155***
 Min. permitted conveyor temperature $t_{R(min)}$: -40 °C
 Max. permitted conveyor temperature $t_{R(max)}$: 60 °C
 Electrical connection: Terminal box
 Number of blades: 5
 Protection class: IP54
 Motor protection: Thermal contact
 Blades: Aluminium, uncoated
 Rotor: Aluminium, uncoated
 * Rated data

Characteristic curve



Measured in full bell mouth without guard grille in installation type A according to ISO 5801.

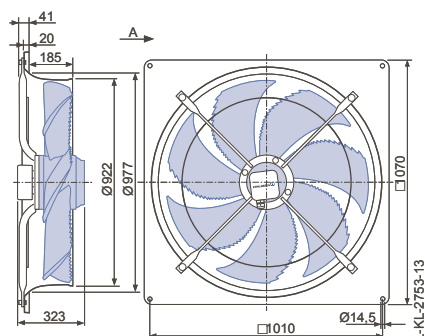
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 for airflow direction V 1360-108XA
 for airflow direction A 1360-108XB

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Dimensions [mm]

Airflow direction A

Design Q - square, full bell mouth

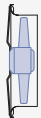
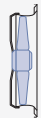




Performance data

| Type | Connection | Characteristic curve | Voltage | Operating point | Current | Motor input power | Speed | Suction side sound power level |
|-----------------|------------|----------------------|---------|-----------------|---------|-------------------|-------|--------------------------------|
| | | | U [V] | | | | | |
| FN091-VD_7Q_5P1 | Δ | I | 400 | ① | 11.00 | 6800 | 1110 | |
| | | | 400* | ② | 7.80* | 4600* | 1260* | 85 |
| | | | 400 | ③ | 6.80 | 3800 | 1300 | 88 |
| | Y | II | 400 | ④ | 5.80 | 3600 | 750 | |
| | | | 400* | ⑤ | 4.60* | 2800* | 970* | 78 |
| | | | 400 | ⑥ | 4.20 | 2500 | 1040 | 82 |

*rated data

Fan ordering information

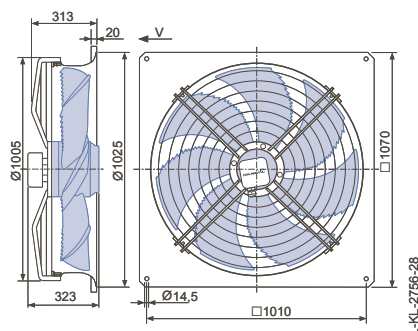
| Airflow direction A | | Airflow direction V | | |
|---------------------|---|---|---|---|
| Design | Q | Q | S | I |
| |  |  |  |  |
| Type | FN091-VDQ.7Q.A5P1 | FN091-VDQ.7Q.V5P1 | FN091-VDS.7Q.V5P1 | FN091-VDI.7Q.V5P1 |
| Article no. | 156187 | 156190 | 156189 | 156191 |
| Weight [kg] | 64.70 | 69.30 | 52.70 | 52.00 |

Control technology

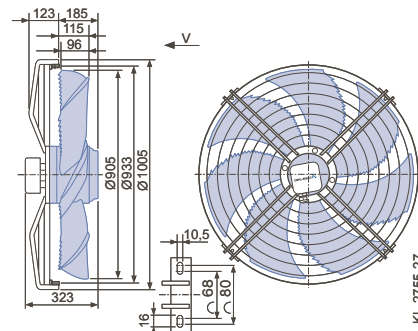
| | | | |
|--|---|--|---|
| <p>Frequency inverter Fcontrol 3~</p>  <p>➤ Page 558</p> | <p>Motor protection units 3~</p>  <p>➤ Page 596</p> | <p>Transformer-based controllers 3~</p>  <p>➤ Page 591</p> | <p>Electronic voltage controllers 3~</p>  <p>➤ Page 578</p> |
|--|---|--|---|

Airflow direction V

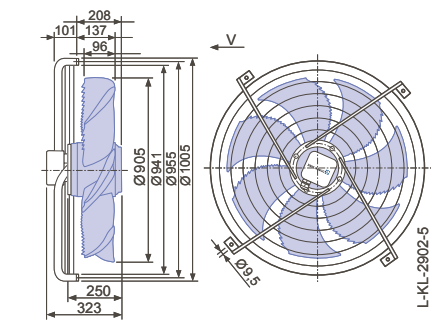
Design Q - square, full bell mouth



Design S - radially bolted, mounting for full bell mouth Q and L



Design I - axial bolted, mounting for bell mouth flange for pipe socket H or full bell mouth Q or L



FE2owlet

for three phase alternating current, 6-6 pole

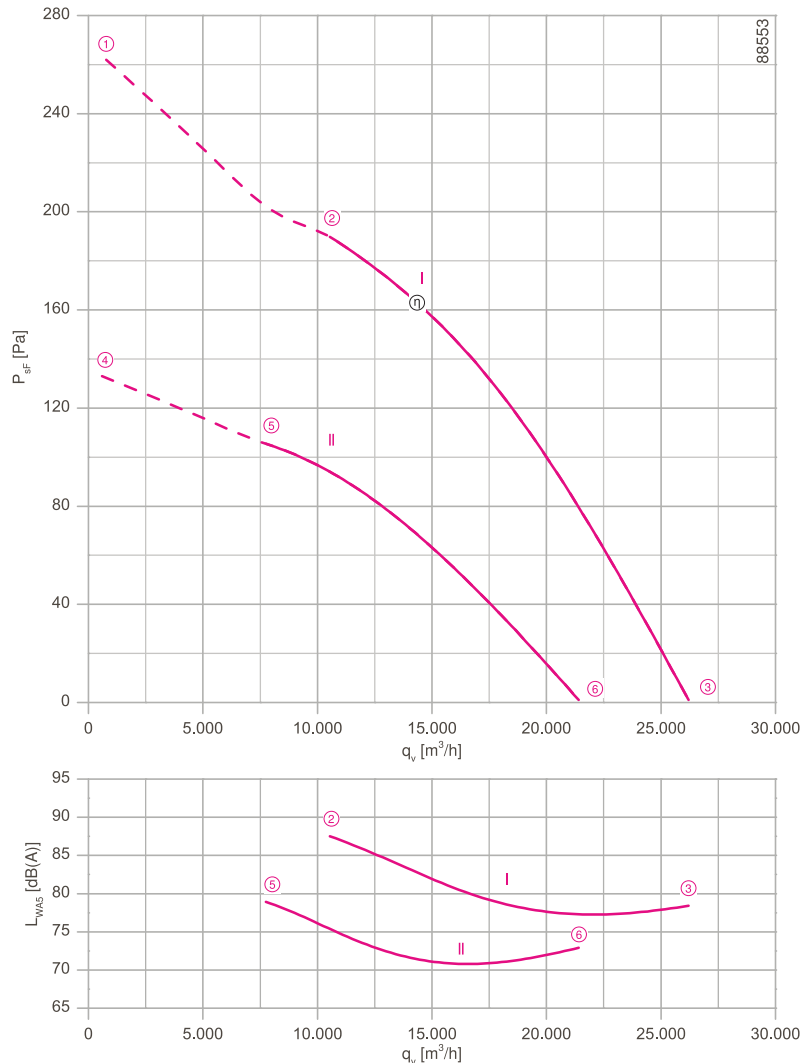
FN091-SD



Description

Motor technology: AC
 Rated voltage U_N : 3- 400 V (Δ/Y) $\pm 10\%$ *
 Rated frequency f_N : 50 Hz* (60Hz data available)
 Motor input power P_1 : 1.85/1.05 kW*
 Rated current I_N : 3.80/1.90 A*
 Rated speed n_N : 840/ 630 min⁻¹*
 Starting current I_A : 9.50 A / 3.00 A
 Current increase ΔI : 0 %
 Thermal class: **THCL155***
 Min. permitted conveyor temperature $t_{R(min)}$: -40 °C
 Max. permitted conveyor temperature $t_{R(max)}$: 70 °C
 Electrical connection: Terminal box
 Number of blades: 7
 Protection class: IP54
 Motor protection: Thermal contact
 Blades: Aluminium, uncoated
 Rotor: Aluminium, uncoated
 Conformity: ErP 2015, CE
ErP Data
 Efficiency η_{statA} : 39.2 %
 Efficiency: $N_{actual} = 44.0 / N_{target} = 40^{**}$
 * Rated data
 **ErP 2015

Characteristic curve



Measured in full bell mouth without guard grille in installation type A according to ISO 5801.

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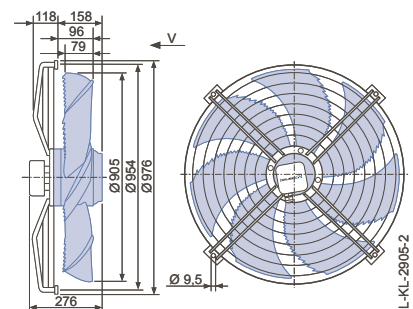
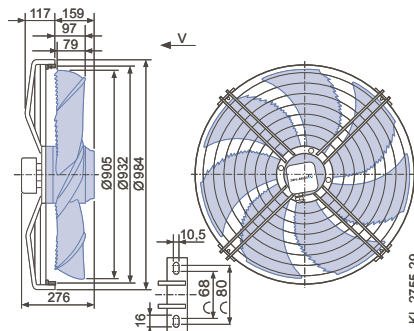
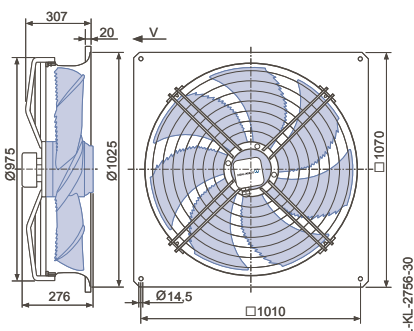
Dimensions [mm]



Design Q - square, full bell mouth

Design S - radially bolted, mounting for full bell mouth Q and L

Design I - axial bolted, mounting for bell mouth flange for pipe socket H or full bell mouth Q or L






Performance data

| Type | Connection | Characteristic curve | Voltage | Operating point | Current | Motor input power | Speed | Suction side sound power level |
|-----------------|------------|----------------------|---------|-----------------|---------|-------------------|-------|--------------------------------|
| | | | U [V] | | | | | |
| FN091-SD_6N_7P2 | Δ | I | 400 | ① | 4.40 | 2200 | 790 | |
| | | | 400* | ② | 3.80* | 1850* | 840* | 88 |
| | | | 400 | ③ | 3.10 | 1250 | 900 | 78 |
| | Y | II | 400 | ④ | 2.10 | 1200 | 560 | |
| | | | 400* | ⑤ | 1.90* | 1050* | 630* | 79 |
| | | | 400 | ⑥ | 1.55 | 840 | 730 | 73 |

*rated data

Fan ordering information

← Airflow direction V

| Design | Q | S | I |
|--------------------|---|---|---|
| |  |  |  |
| Type | FN091-SDQ.6N.V7P2 | FN091-SDS.6N.V7P2 | FN091-SDI.6N.V7P2 |
| Article no. | 156204 | 156205 | 156203 |
| Weight [kg] | 50.70 | 34.10 | 34.20 |

Control technology

| | | | |
|--|---|--|---|
| <p>Frequency inverter Fcontrol 3~</p>  <p>➤ Page 558</p> | <p>Motor protection units 3~</p>  <p>➤ Page 596</p> | <p>Transformer-based controllers 3~</p>  <p>➤ Page 591</p> | <p>Electronic voltage controllers 3~</p>  <p>➤ Page 578</p> |
|--|---|--|---|

FE2owlet

for three phase alternating current, 6-6 pole

FN091-SD



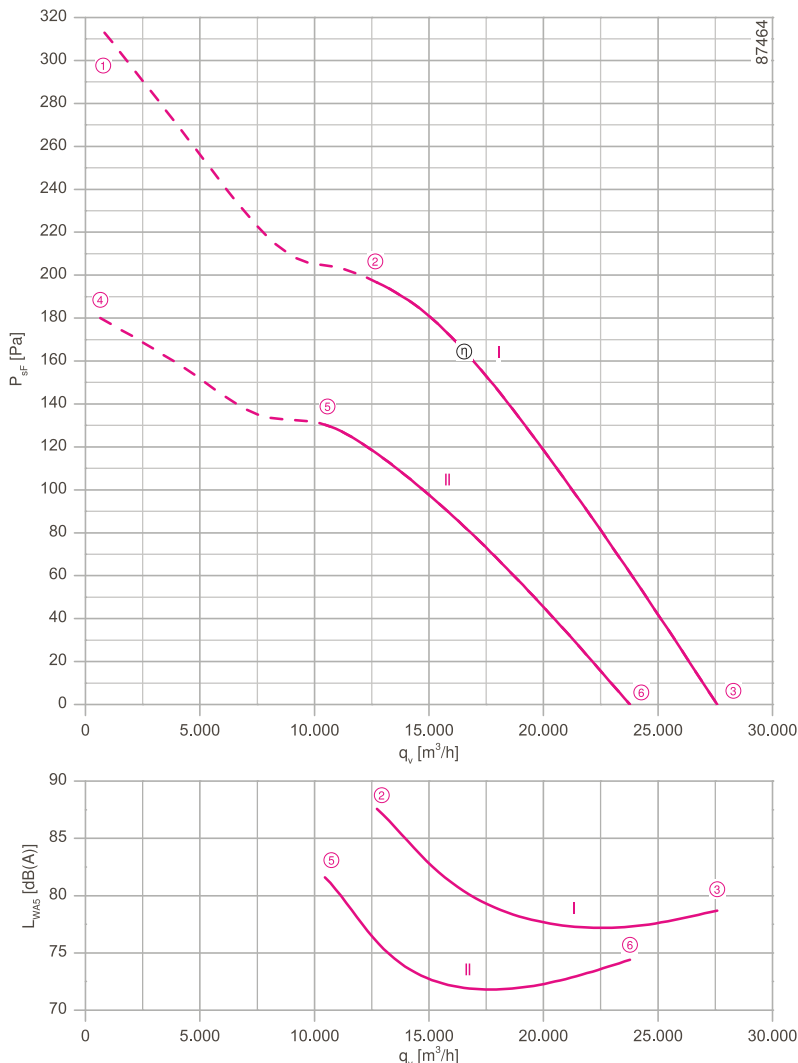
Description

Motor technology: AC
 Rated voltage U_N : 3- 400 V (Δ/Y) ± 10 %*
 Rated frequency f_N : 50 Hz* (60Hz data available)
 Motor input power P_1 : 1.95/1.30 kW*
 Rated current I_N : 4.40/2.30 A*
 Rated speed n_N : 880/ 720 min⁻¹*
 Starting current I_s : 17.00 A / 5.50 A
 Current increase ΔI : 0 %
 Thermal class: **THCL155***
 Min. permitted conveyor temperature $t_{R(min)}$: -40 °C
 Max. permitted conveyor temperature $t_{R(max)}$: 70 °C
 Electrical connection: Terminal box
 Number of blades: 5
 Protection class: IP54
 Motor protection: Thermal contact
 Blades: Aluminium, uncoated
 Rotor: Aluminium, uncoated
 Conformity: ErP 2015, CE
ErP Data
 Efficiency η_{statA} : 40.8 %
 Efficiency: $N_{actual} = 45.4 / N_{target} = 40$ **
 * Rated data
 **ErP 2015

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 for airflow direction V 1360-108XA
 for airflow direction A 1360-108XB

➤ System components Page 524

Characteristic curve

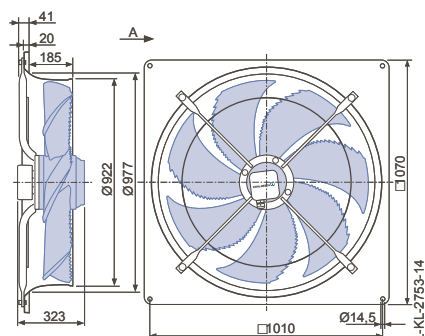


Measured in full bell mouth without guard grille in installation type A according to ISO 5801.

Dimensions [mm]

Airflow direction A

Design Q - square, full bell mouth

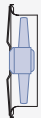
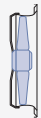




Performance data

| Type | Connection | Characteristic curve | Voltage | Operating point | Current | Motor input power | Speed | Suction side sound power level |
|-----------------|------------|----------------------|---------|-----------------|---------|-------------------|-------|--------------------------------|
| | | | U [V] | | | | | |
| FN091-SD_7M_5P1 | Δ | I | 400 | ① | 5.40 | 2700 | 830 | |
| | | | 400* | ② | 4.40* | 1950* | 880* | 88 |
| | | | 400 | ③ | 3.90 | 1400 | 920 | 79 |
| | Y | II | 400 | ④ | 2.80 | 1600 | 620 | |
| | | | 400* | ⑤ | 2.30* | 1300* | 720* | 82 |
| | | | 400 | ⑥ | 1.80 | 1000 | 800 | 74 |

*rated data

Fan ordering information

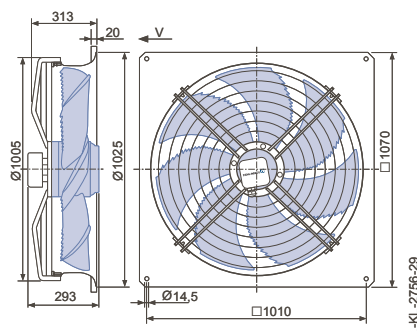
| Airflow direction A | | Airflow direction V | | |
|---------------------|---|---|---|---|
| Design | Q | Q | S | I |
| |  |  |  |  |
| Type | FN091-SDQ.7M.A5P1 | FN091-SDQ.7M.V5P1 | FN091-SDS.7M.V5P1 | FN091-SDI.7M.V5P1 |
| Article no. | 156181 | 156184 | 156183 | 156185 |
| Weight [kg] | 58.20 | 63.00 | 46.40 | 45.90 |

Control technology

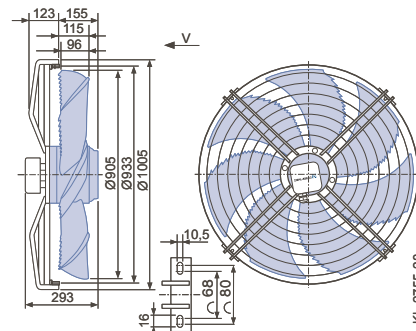
| | | | |
|--|---|--|---|
| <p>Frequency inverter Fcontrol 3~</p>  <p>➤ Page 558</p> | <p>Motor protection units 3~</p>  <p>➤ Page 596</p> | <p>Transformer-based controllers 3~</p>  <p>➤ Page 591</p> | <p>Electronic voltage controllers 3~</p>  <p>➤ Page 578</p> |
|--|---|--|---|

Airflow direction V

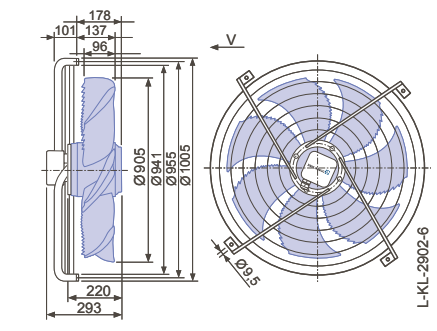
Design Q - square, full bell mouth



Design S - radially bolted, mounting for full bell mouth Q and L



Design I - axial bolted, mounting for bell mouth flange for pipe socket H or full bell mouth Q or L



FE2owlet

for three phase alternating current, 6-6 pole

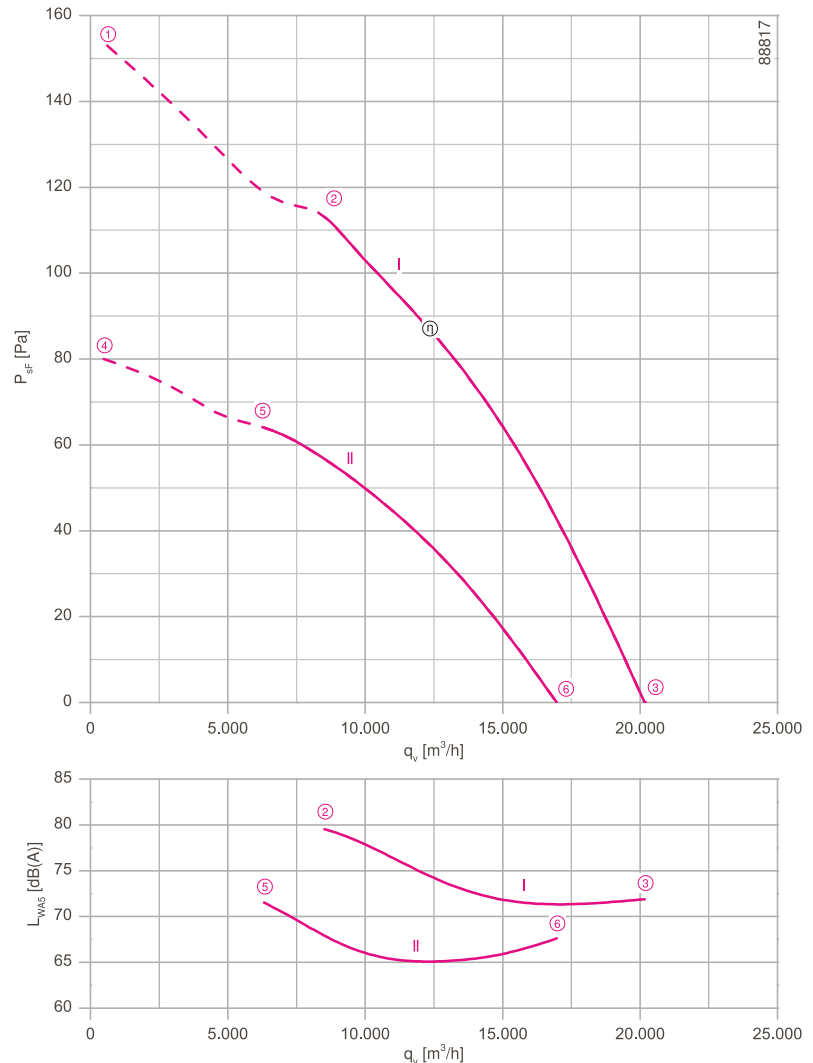
FN091-AD



Description

Motor technology: AC
 Rated voltage U_N : 3- 400 V (Δ/Y) ± 10 %*
 Rated frequency f_N : 50 Hz* (60Hz data available)
 Motor input power P_1 : 0.90/0.54 kW*
 Rated current I_N : 2.20/1.10 A*
 Rated speed n_N : 660/ 500 min⁻¹*
 Starting current I_s : 5.00 A / 1.50 A
 Current increase ΔI : 0 %
 Thermal class: **THCL155***
 Min. permitted conveyor temperature $t_{R(min)}$: -40 °C
 Max. permitted conveyor temperature $t_{R(max)}$: 70 °C
 Electrical connection: Terminal box
 Number of blades: 7
 Protection class: IP54
 Motor protection: Thermal contact
 Blades: Aluminium, uncoated
 Rotor: Aluminium, uncoated
 Conformity: ErP 2015, CE
ErP Data
 Efficiency η_{statA} : 36.5 %
 Efficiency: $N_{actual} = 43.2 / N_{target} = 40^{**}$
 * Rated data
 **ErP 2015

Characteristic curve



Measured in full bell mouth without guard grille in installation type A according to ISO 5801.

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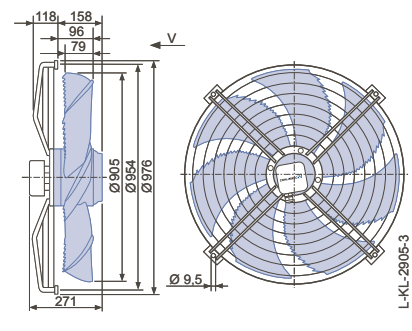
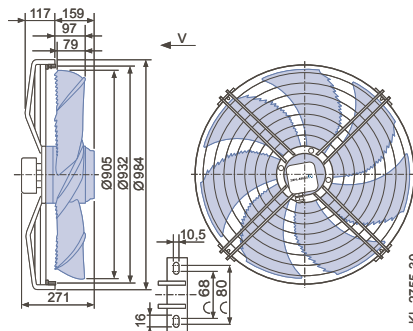
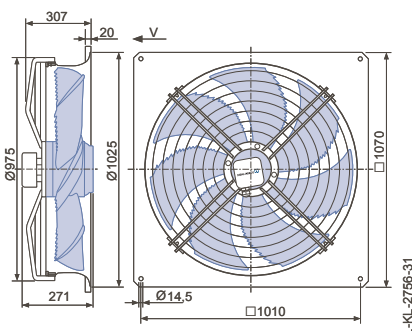
Dimensions [mm]



Design Q - square, full bell mouth

Design S - radially bolted, mounting for full bell mouth Q and L

Design I - axial bolted, mounting for bell mouth flange for pipe socket H or full bell mouth Q or L






Performance data

| Type | Connection | Characteristic curve | Voltage | Operating point | Current | Motor input power | Speed | Suction side sound power level L_{WA5} [dB] |
|-----------------|------------|----------------------|---------|-----------------|---------|-------------------|------------------------|--|
| | | | U [V] | | I [A] | P_1 [W] | n [min ⁻¹] | |
| FN091-AD_6N_7P2 | Δ | I | 400 | ① | 2.40 | 1100 | 620 | |
| | | | 400* | ② | 2.20* | 900* | 660* | 80 |
| | | | 400 | ③ | 1.85 | 620 | 690 | 72 |
| | Y | II | 400 | ④ | 1.20 | 600 | 440 | |
| | | | 400* | ⑤ | 1.10* | 540* | 500* | 72 |
| | | | 400 | ⑥ | 0.90 | 440 | 590 | 68 |

*rated data

Fan ordering information

← Airflow direction V

| Design | Q | S | I |
|--------------------|---|---|---|
| |  |  |  |
| Type | FN091-ADQ.6N.V7P2 | FN091-ADS.6N.V7P2 | FN091-ADI.6N.V7P2 |
| Article no. | 156214 | 156215 | 156213 |
| Weight [kg] | 50.70 | 34.10 | 34.20 |

Control technology

| | | | |
|--|---|--|---|
| <p>Frequency inverter Fcontrol 3~</p>  <p>➤ Page 558</p> | <p>Motor protection units 3~</p>  <p>➤ Page 596</p> | <p>Transformer-based controllers 3~</p>  <p>➤ Page 591</p> | <p>Electronic voltage controllers 3~</p>  <p>➤ Page 578</p> |
|--|---|--|---|