

## Duty Point Overview



Typ: ZN091-ZIQ.GQ.V5P1

Article number: 180811

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This document does not replace the technical product specification. It is intended solely as non-binding guidance regarding the information shown in the table of contents, in particular duty point data, characteristic curves and drawings. It is recommended that the technical product specification be agreed or accepted separately after this document.

## 1. Technical Data

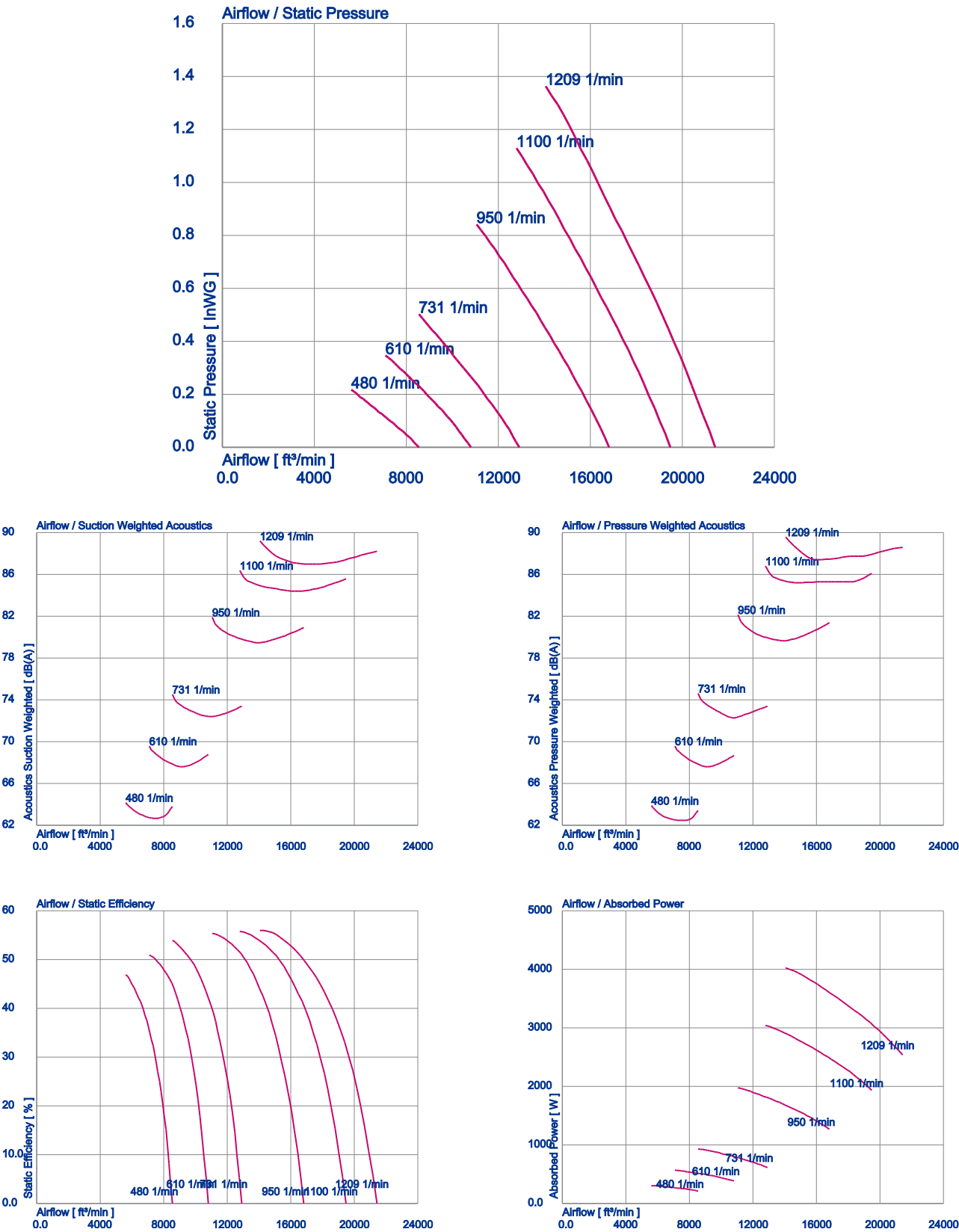
|                            |                                                                                                                                                                                                                                                                                                                                         |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Article number             | 180811                                                                                                                                                                                                                                                                                                                                  |
| Type key                   | ZN091-ZIQ.GQ.V5P1                                                                                                                                                                                                                                                                                                                       |
| Designation                | ZAplus axial fan with sickle blades                                                                                                                                                                                                                                                                                                     |
| Fan design                 | and with rectangular wall ring plate.                                                                                                                                                                                                                                                                                                   |
| Rated values               | 3~380-480V 50/60Hz P <sub>1</sub> 4.00kW 6.40-5.00A<br>1210 min <sup>-1</sup> 50°C                                                                                                                                                                                                                                                      |
| Electrical connection      | Integrated controller                                                                                                                                                                                                                                                                                                                   |
| Conformity                 | ErP 2015, ErP2026-Status: Compliant (complete fan)                                                                                                                                                                                                                                                                                      |
| ErP Data                   | Measurement category ErP: A<br>Air flow q <sub>v</sub> on Eta opt: 24139 m <sup>3</sup> /h<br>Pressure increase p <sub>fs</sub> on Eta opt: 346 Pa<br>Input power P <sub>ed</sub> on Eta opt: 4021 W<br>Efficiency H <sub>statA</sub> : 61.9 %<br>Efficiency grade: N <sub>actual</sub> = 64.4 / N <sub>target</sub> = 40*<br>*ErP 2015 |
| Thermal class              | THCL155                                                                                                                                                                                                                                                                                                                                 |
| Efficiency class           | IE5                                                                                                                                                                                                                                                                                                                                     |
| IO-function                | BASIC-MODBUS                                                                                                                                                                                                                                                                                                                            |
| Type PFC integrated        | no PFC                                                                                                                                                                                                                                                                                                                                  |
| Painting motor             | Fan unpainted                                                                                                                                                                                                                                                                                                                           |
| Material rotor             | Aluminium                                                                                                                                                                                                                                                                                                                               |
| Painting rotor             | Rotor 1 coat paint                                                                                                                                                                                                                                                                                                                      |
| Colour rotor               | RAL 5002 (ultramarine blue)                                                                                                                                                                                                                                                                                                             |
| Material blades/impeller   | Aluminium                                                                                                                                                                                                                                                                                                                               |
| Painting impeller          | Blades unpainted                                                                                                                                                                                                                                                                                                                        |
| Painting inlet nozzle      | Bell mouth unpainted                                                                                                                                                                                                                                                                                                                    |
| Colour inlet nozzle        | black                                                                                                                                                                                                                                                                                                                                   |
| Coating sheet-metal        | Safety guard powder-coated with safety guard                                                                                                                                                                                                                                                                                            |
| Connection diagram         | Connection diagram: AP00001C                                                                                                                                                                                                                                                                                                            |
| Fitting position           | H/Vu/Vo                                                                                                                                                                                                                                                                                                                                 |
| Motor protection           | integrated active temperature management                                                                                                                                                                                                                                                                                                |
| Type of protection         | IP55                                                                                                                                                                                                                                                                                                                                    |
| Impregnation               | Moisture and hot climate protection                                                                                                                                                                                                                                                                                                     |
| Quality of bearings        | ball bearing with long-time lubrication                                                                                                                                                                                                                                                                                                 |
| Labelling UL/CSA           | E213826 ZC-155, MK152-0013                                                                                                                                                                                                                                                                                                              |
| Colour motor               | Fan unpainted.                                                                                                                                                                                                                                                                                                                          |
| Rating plate               | 2x fixed                                                                                                                                                                                                                                                                                                                                |
| Condens. drain holes       | Condensation drain hole rotor open                                                                                                                                                                                                                                                                                                      |
| Guard grille type          | ring grill                                                                                                                                                                                                                                                                                                                              |
| Client's loose parts       | Connecting elements in the accessories bag supplied loosely.                                                                                                                                                                                                                                                                            |
| Number of blades           | 5                                                                                                                                                                                                                                                                                                                                       |
| Blade setting              | P                                                                                                                                                                                                                                                                                                                                       |
| Special loose parts        | Connecting elements in the accessories bag supplied loosely.                                                                                                                                                                                                                                                                            |
| Weight                     | 54.50 kg                                                                                                                                                                                                                                                                                                                                |
| Min. operating temperature | -35°C***                                                                                                                                                                                                                                                                                                                                |

\*\*\* Operation mode:

Continuous operation with occasional starts (S1) according to DIN EN 60034-1:2011-02. Occasional starting between -35 °C and -25 °C is permissible. Continuous operation below -25 °C only with special bearings for refrigeration applications on request.

### 3. Characteristic Curve

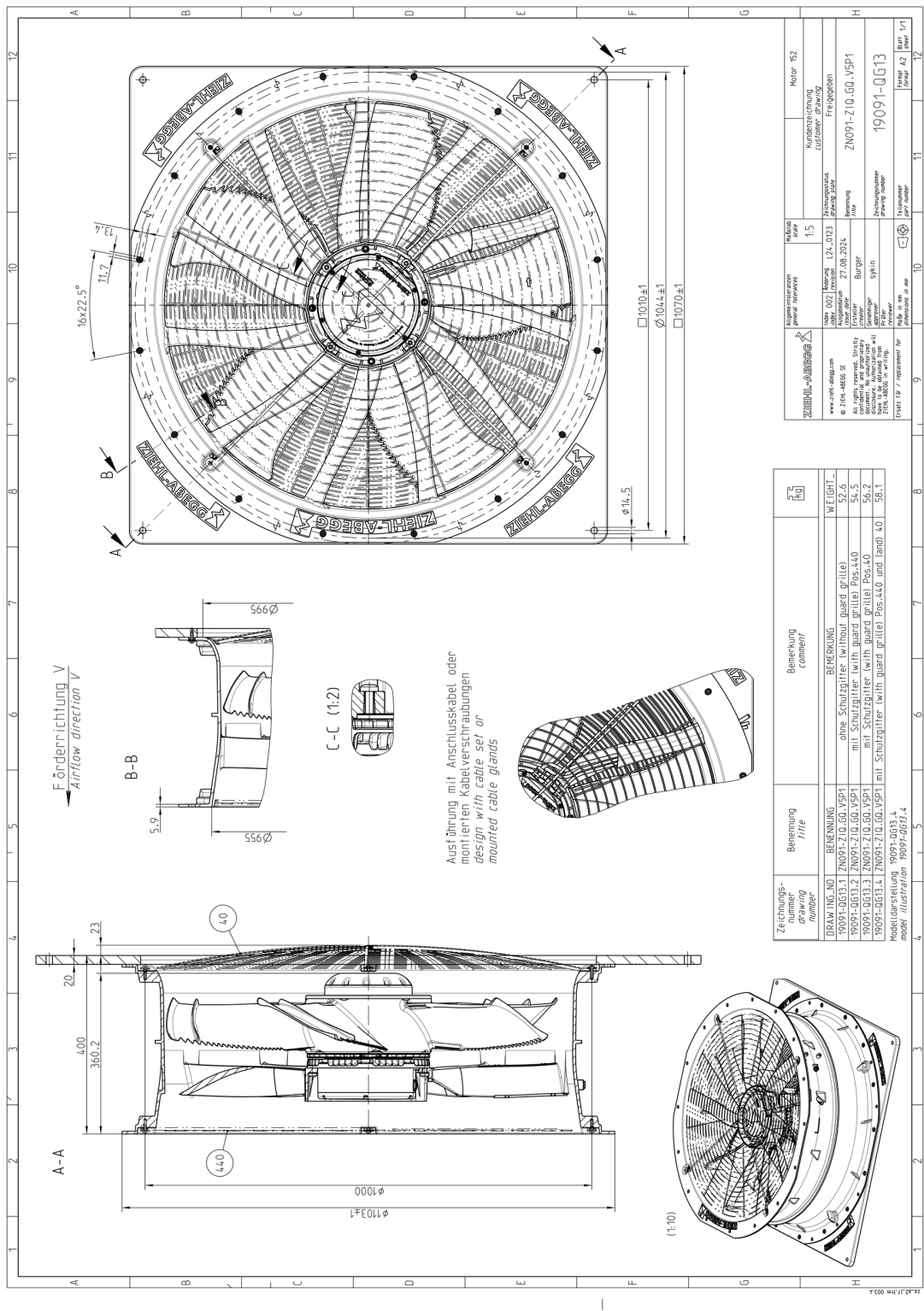
Measured in ZAPLUS with pressure side guard grille in air flow direction V in installation type A according to ISO5801 1.16 kg/m<sup>3</sup>



4. Drawing

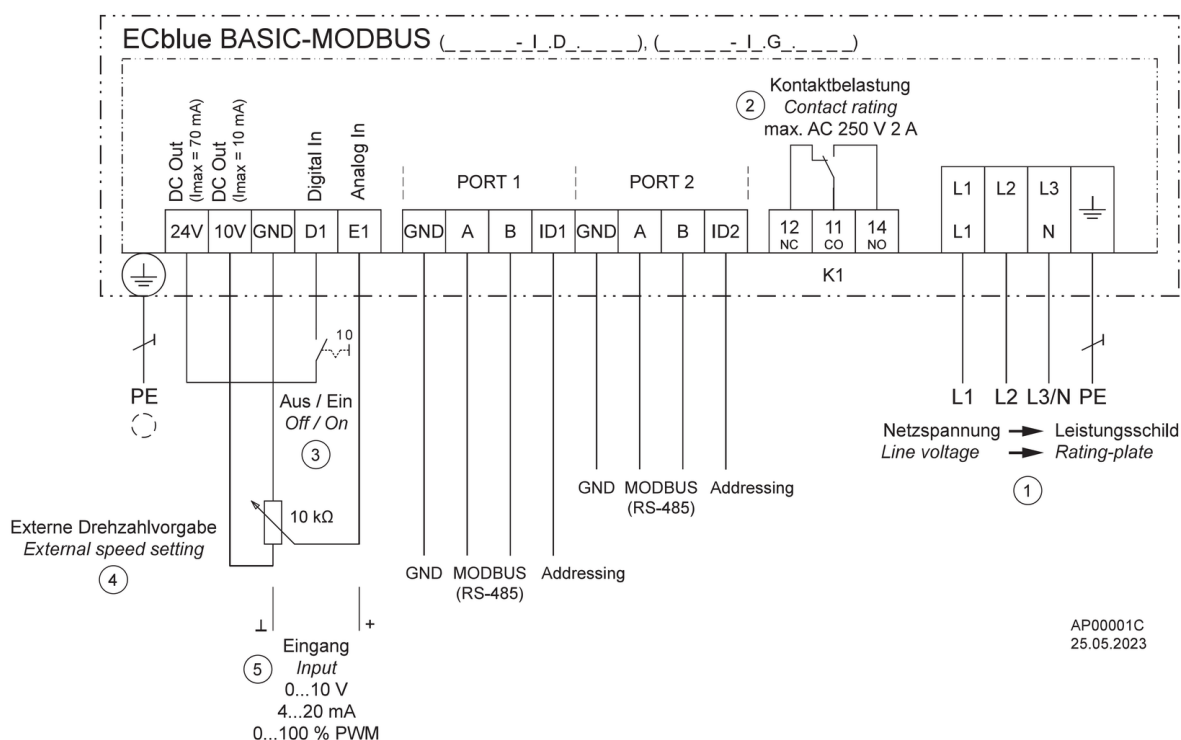
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Dimensions in mm The illustrations shown make no claim to completeness and are for orientation purposes only.

## 5. Connection Diagram



|                                                                                                                                                                                                |                                                                                                   |     |                             |                                                          |                                                                            |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|-----|-----------------------------|----------------------------------------------------------|----------------------------------------------------------------------------|
| www.ziehl-abegg.com                                                                                                                                                                            | Index<br><i>index</i>                                                                             | 003 | Änderung<br><i>revision</i> | Änderung                                                 | Benennung / title<br><br><b>Anschlussplan</b><br><i>connection diagram</i> |
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|                                                                                                                                                                                                | Ersteller<br><i>creator</i>                                                                       |     |                             | langm                                                    |                                                                            |
|                                                                                                                                                                                                | ZIEHL-ABEGG  |     |                             | Zeichnungsnummer / drawing number<br><br><b>AP00001C</b> |                                                                            |