

Duty Point Overview



Typ: ZN091-ZIQ.GL.V5P1

Article number: 180696

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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

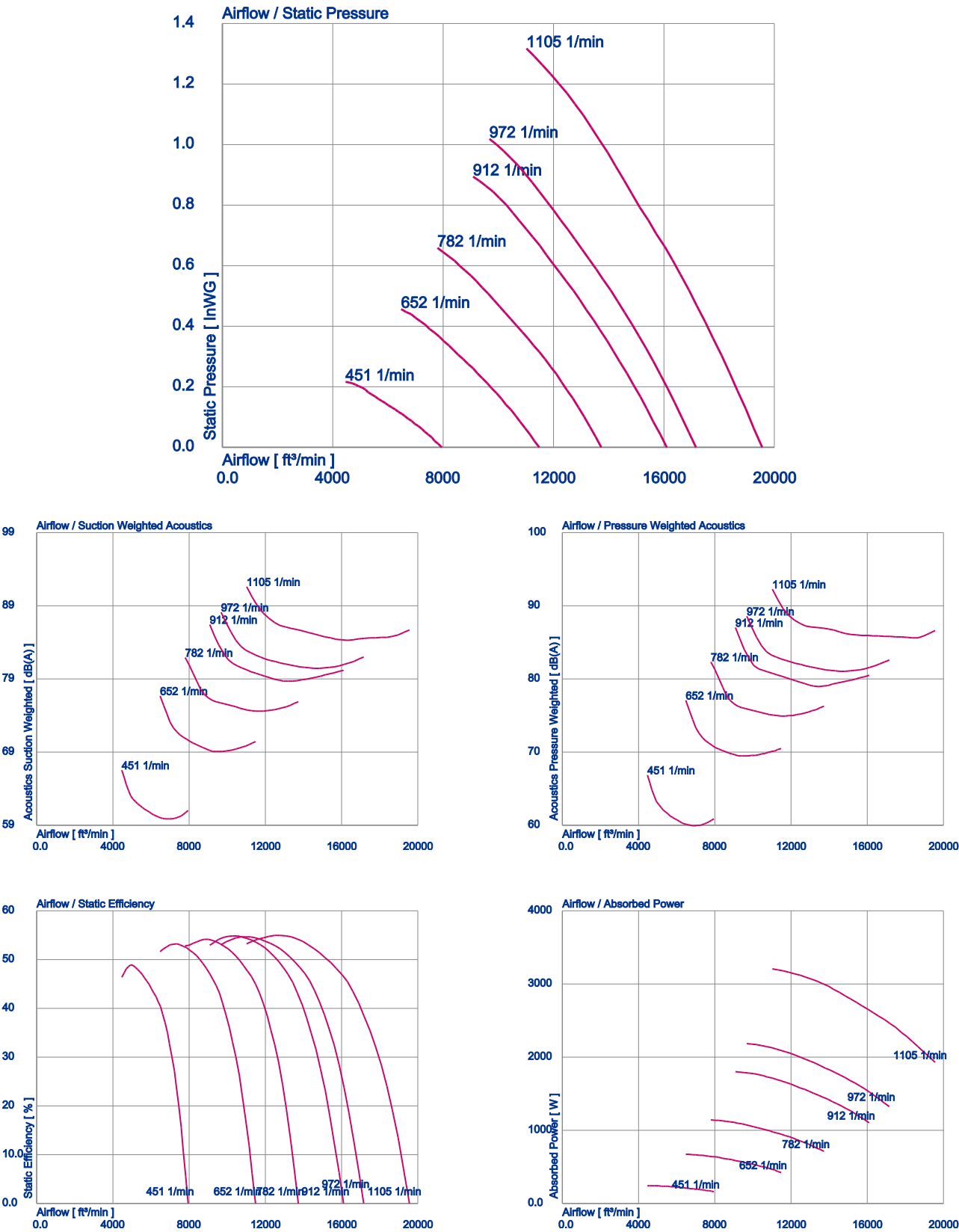
Article number	180696
Type key	ZN091-ZIQ.GL.V5P1
Designation	ZAplus axial fan with sickle blades
Fan design	and with rectangular wall ring plate.
Rated values	3~380-480V 50/60Hz P ₁ 3.20kW 5.20-4.20A 1100 min ⁻¹ 55°C
Electrical connection	Integrated controller
Conformity	ErP 2015, ErP2026-Status: Compliant (complete fan)
ErP Data	Measurement category ErP: A Air flow q _v on Eta opt: 22430 m ³ /h Pressure increase p _{fs} on Eta opt: 283 Pa Input power P _{ed} on Eta opt: 3100 W Efficiency H _{statA} : 62.0 % Efficiency grade: N _{actual} = 65.3 / N _{target} = 40* *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, MK152-0008
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	47.70 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

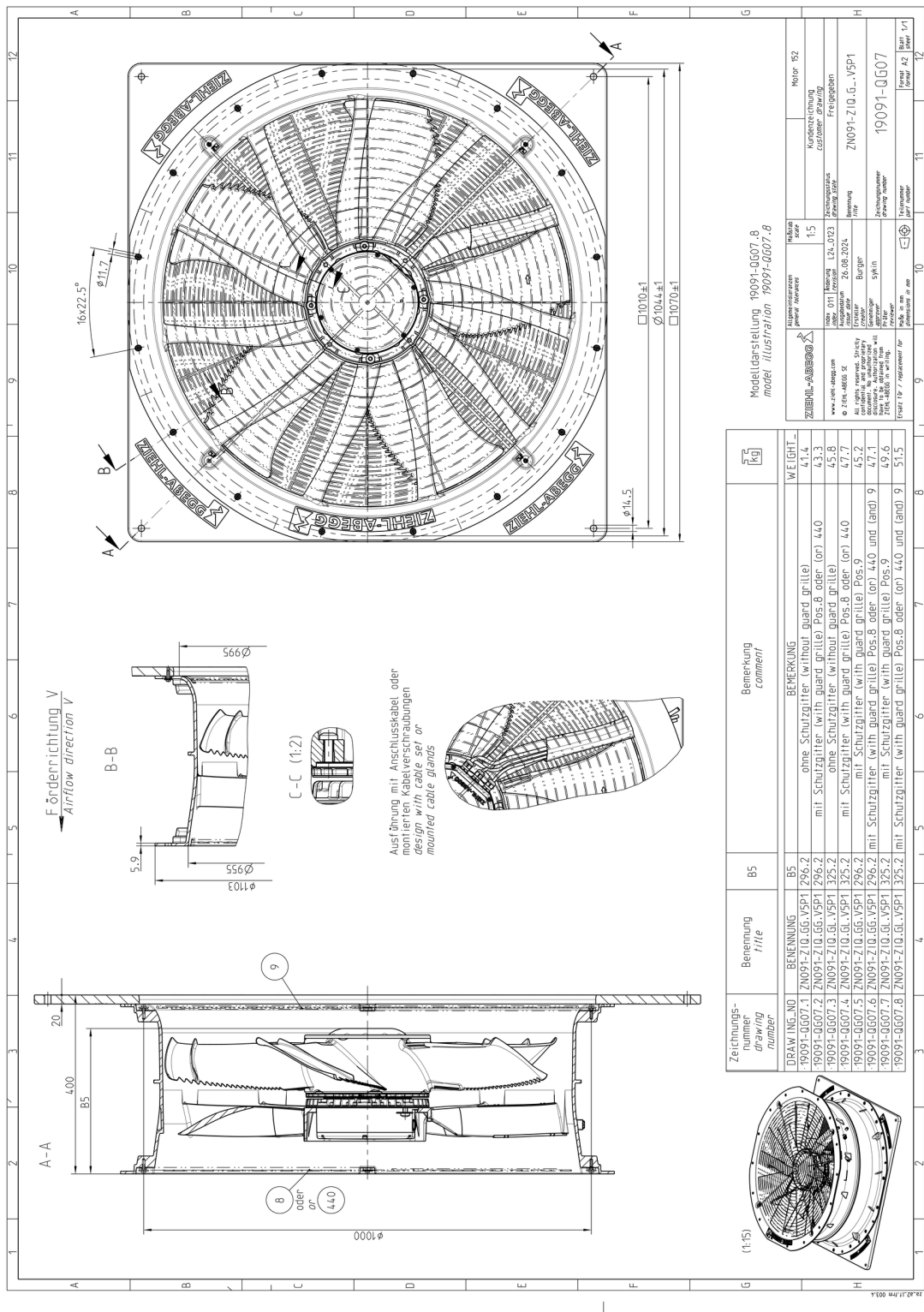
Measured in ZAPLUS with pressure side guard grille in air flow direction V in installation type A according to ISO5801 1.16 kg/m³



4. Drawing

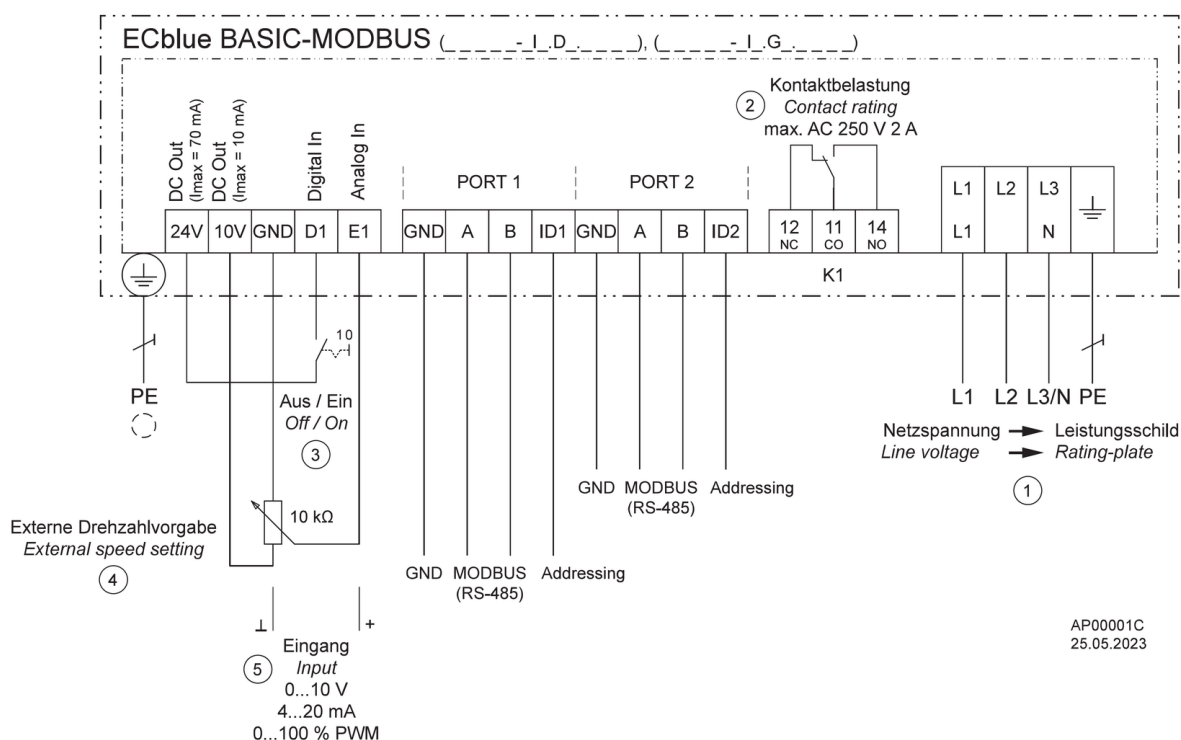
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Dimensions in mm The illustrations shown make no claim to completeness and are for orientation purposes only.

5. Connection Diagram



www.ziehl-abegg.com	Index <i>index</i>	003	Änderung <i>revision</i>	Änderung	Benennung / <i>title</i>
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	Ersteller <i>creator</i>		langm		Zeichnungsnummer / <i>drawing number</i>
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