

ventilator gegevens

8/27/2020

versie FANselect V 1.01 (200724), AMCA V 1.03 February, 2019 / 1.20.07.24 | 732 | (gebruiker ericmarechal)

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Type	ZN080-ZIL.GL.V7P3
artikelnummer	180812 Portfolio STD-WW

technische gegevens

Motor	ECblue
Efficiency class	IE5
Voeding	-
Omgevings temperatuur maximaal	°C
rendement η_{statA}	%
efficiency grade N_{actual} N_{target}	61,6 40
ErP-klasse	2015 EC controller integrated
grille influence	pressure side measured

ventilator gegevens

SFP-class SFP-value (P_{SFP})	- Ws/m^3	1 188
Luchthoeveelheid (q_v)	m^3/h	14000
pressure, stat. (p_{sF}) tot. (p_F)	Pa	82 119
Syst elektr. Opgen. Verm. (P_{sys})	W	731
system eff., stat. ($\eta_{sF,sys}$) tot. ($\eta_{F,sys}$)	%	43.8 63.6
fan speed (n) max. (n_{max})	1/min	715 1100
Set punt ventilator in $\%n_{max}$	%	65
frequency (f_{BP}) (f_{max})	Hz	50 60
(U_{DP})	V	400
stroom (I_{DP})	A	1.25
acoustics, suction side ($L_{w(A),5}$) ($L_{w,5}$)	dB	70 77
acoustics, pressure side ($L_{w(A),6}$) ($L_{w,6}$)	dB	71 77
afmetingen (b x h x d)	mm	1000 x 998 x 332
Gewicht Product	kg	42.2

PF:PF_50; Ano:180812; STol:+-10 %



Grafiek / akoestiek

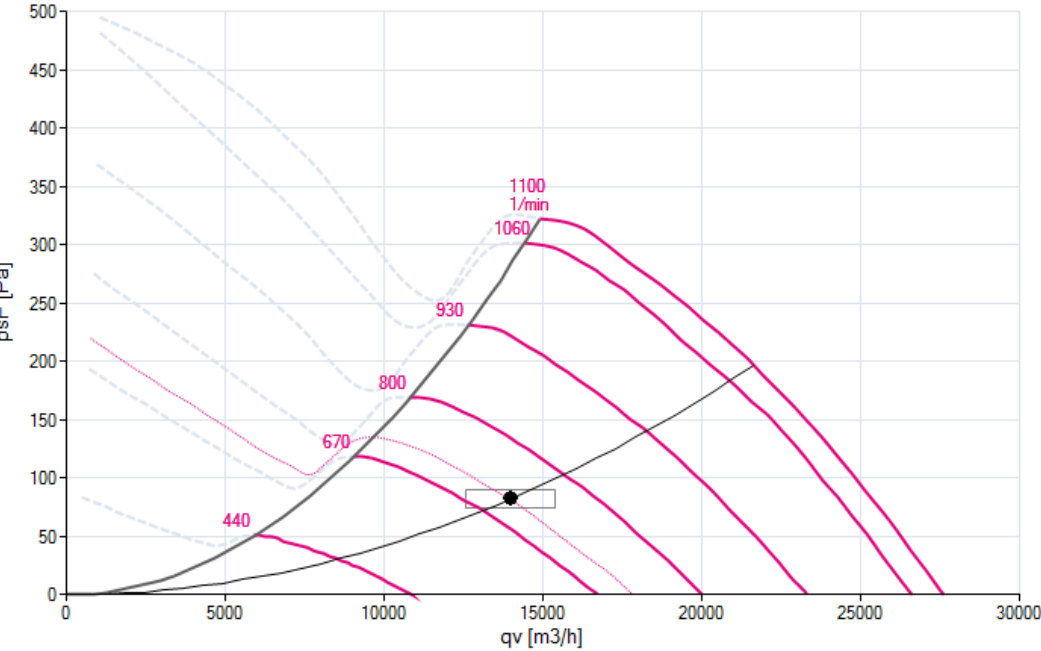
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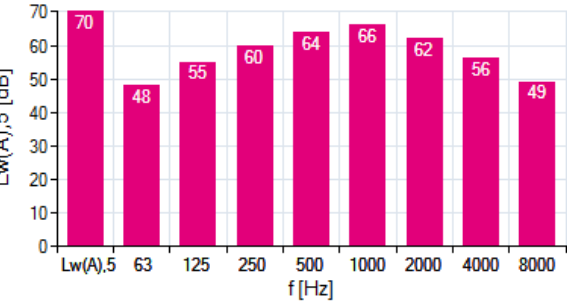
1 ZN080-ZIL.GL.V7P3
180812 | Portfolio STD-WW

Measured in ZAPlus with pressure side guard grille in air flow direction V in installation type A according to ISO5801
Volume meetings 1.16 [kg/m³]

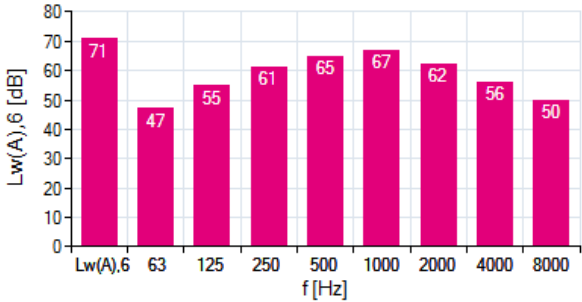
Lucht bereik p_{sF}



geluidsvermogen aanzuigzijde ($L_{w(A),5}$)



geluidsvermogen blaaszijde (A)($L_{w(A),6}$)



1 ZN080-ZIL.GL.V7P3									
f [Hz]	sum	63	125	250	500	1000	2000	4000	8000
$L_{w(A),5}$	70	48	55	60	64	66	62	56	49
$L_{w,5}$	77	72	72	68	67	67	61	55	50

f [Hz]	sum	63	125	250	500	1000	2000	4000	8000
$L_{w(A),6}$	71	47	55	61	65	67	62	56	50
$L_{w,6}$	77	71	71	69	68	67	61	55	51



rendement / Ingangs vermogen

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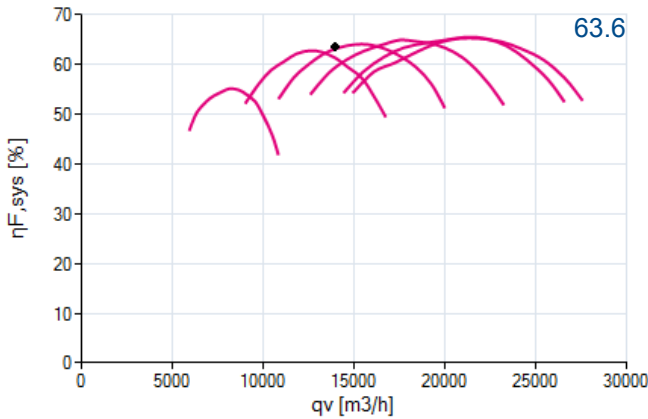
ZN080-ZIL.GL.V7P3

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

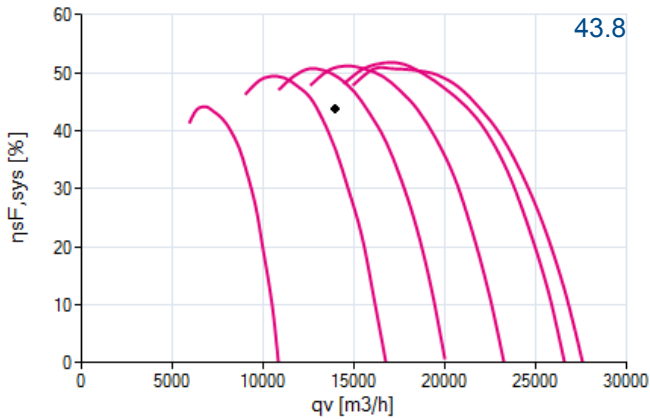
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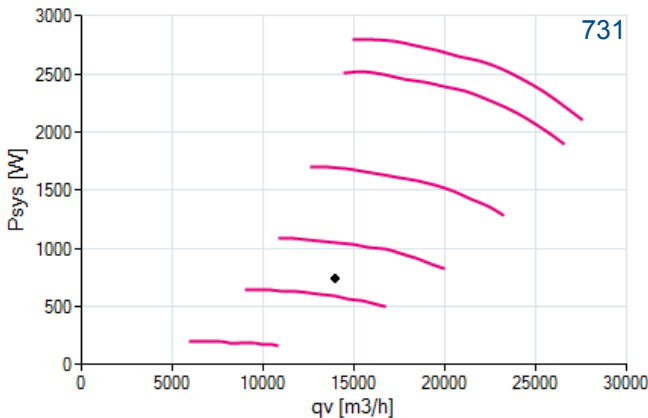
rendement $\eta_{F,sys}$



rendement $\eta_{sF,sys}$



Ingangs vermogen P_{sys}



FANselect

nominale gegevens

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ZN080-ZIL.GL.V7P3

180812

3~ 380-480V 50Hz P1 2.80kW

4.40-3.50A 1100/MIN 65°C

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4.40-3.50A 1100/MIN 65°C

IP55 THCL155

Tekening

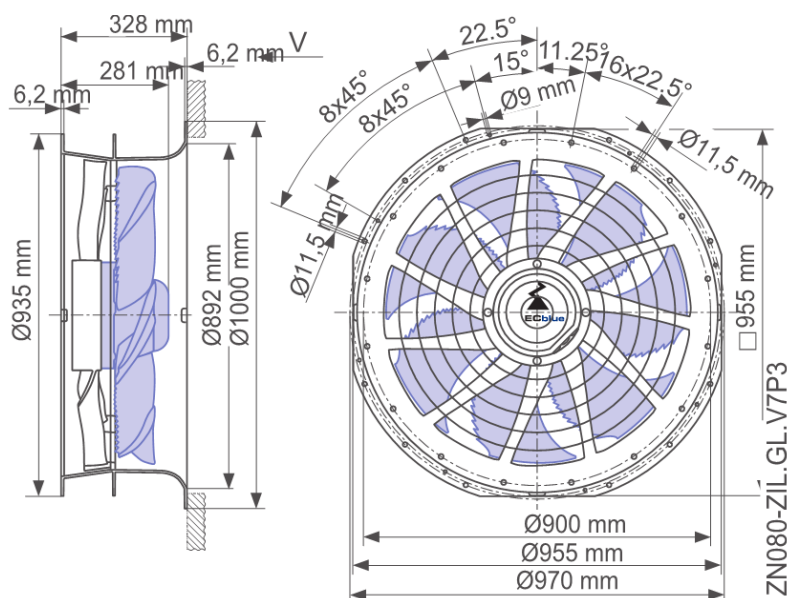
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ZN080-ZIL.GL.V7P3

aansluitschema

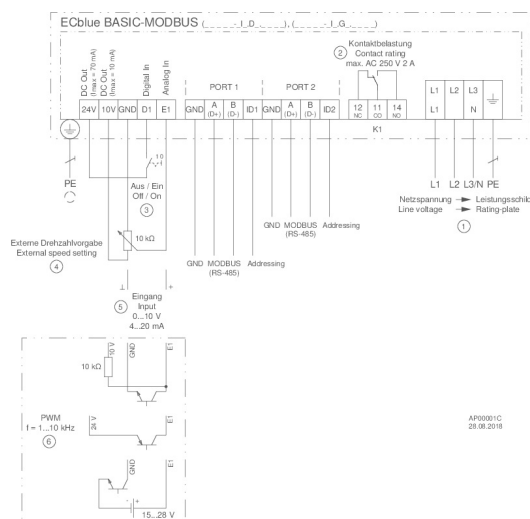
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FANselect



Series
ZN

Design
FE2owlet-ECblue with ZAplus

Specification

- Direct-driven axial fan
- Aerodynamic-optimised, sickle-blade profile, patterned with serrated trailing edge and winglets on the blade outer edge for energy and noise-optimised operation
- High efficient external rotor motor with innovative bionic blade in die-cast aluminium or composite injection moulded
- Highest efficiency with an optimized full bell mouth with guide vane and diffuser
- Impeller: Ø 450 – 910 mm
- Balanced in Class G 6.3 acc DIN ISO 21940, dynamic on two levels.
- Any fitting position
- Drive motor in external rotor principle, sealed in protection class IP55
- Version with integrated electronics (IP65)
- Fan overtemperature protection through active temperature management
- Motor painted in RAL 5002
- Thermal class THCL 155
- The motor efficiency class complies with IE5
- The permissible ambient temperature is -35°C* to max. +40°C (see data sheet)
- Maintenance-free ball bearings sealed on both sides with long-term lubrication
- Fan characteristic curve refer to measurements made on a combined air performance and acoustic test rig according DIN EN ISO 5801, or AMCA 210-99
- Make the electrical connection according to the operating instructions
- Highest efficiency with optimized full bell mouth with guide vane and diffuser
- ZAplus made from high performance composite material
- Modbus integrated as standard

System components
Guard grille, inlet rings

Technical data

Fan type	_____	
Fan size (Ø)	_____	mm
Design	_____	
Air flow (q _v)	_____	m³/h
Static pressure rise (Δp _{sF})	_____	Pa
Rated voltage (U)	_____	V
Mains frequency (f)	_____	Hz
Rated power (P _N)	_____	kW
Efficiency (η _{sF})	_____	%
Rated speed (n)	_____	min ⁻¹
Media temperature (t _R)	_____	°C
Sound power level (L _{WA})	_____	dB(A)
Weight (m)	_____	kg

Further designs on request

FANselect



All frame sizes are available in various grill and nozzle versions (designs).

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