

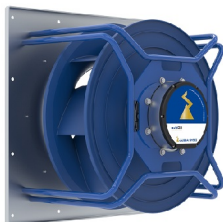


general description

16/12/2021

version FANselect V 1.01 (211209), AMCA V 1.03 September, 2021 / 1.21.12.09 | 53567 | (user ZAFS43567)

1



GR56C-ZID.GL.CR | 116181/A01 | Portfolio STD-WW | Cpro ECblue

Standard design with ECblue motor and integrated electronics**Material of impeller:**

- ZAmid - high performance composite material

Color Coating:

- Color coating in RAL5002 (Ultra marine-blue)

Mains voltage motor size B_:

- 1~ 200...277 V; 50/60 Hz

Mains voltage motor size D_:

- 1~ 200...277 V; 50/60 Hz
- 3~ 200...240 V; 50/60 Hz
- 3~ 380...480 V; 50/60 Hz

Mains voltage motor size G_:

- 3~ 200...240 V; 50/60 Hz
- 3~ 380...480 V; 50/60 Hz

Thermal class:

- THCL155

Thermal protection:

- Protection with active temperature management

Protection:

- IP55

Coating:

- Motor painted in RAL5002 (Ultra marine-blue)

Controller (only motor size B_):

- Activation via external speed setting 0-10 V / PWM, Communication interface on request
- Standard cable length: 60 cm

Controller (only motor size D_, G_):

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- **BASIC:**

Activation via external speed setting 0-10 V / PWM Art. no. ER- and GR-module
in basic version

- **PREMIUM:**

Integrated control functionality, Communication interface on request

Cable glands:

- Motor size D: 3 x M16 x 1.5
- Motor size G: 3 x M20 x 1.5

Ambient temperature:

- Minimum permissible ambient temperature: -20 °C*
- Maximum permissible ambient temperature: 40 °C or see data sheet

***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.**



fan data

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type	GR56C-ZID.GL.CR
article no.	116181/A01 Portfolio STD-WW

technical data

motor	ECblue
Efficiency class	IE5
mains supply	- 3~ 400V 50Hz
ambient temperature, max. limit (t_r)	°C 40
efficiency grade η_{statA}	% 71,6
efficiency grade N_{actual} N_{target}	74,8 62
ErP-conformity	2015 EC controller integrated
grille influence	no

fan data

SFP-class SFP-value (P_{SFP})	- Ws/m ³	3 1176
airflow volume (q_v)	ft ³ /min	8198.0
air velocity	ft/s	42.30
pressure, stat. (p_{sF}) tot. (p_F)	in.wg.	3.000 3.390
electrical power input (P_{sys})	W	4550
system eff., stat. ($\eta_{sF,sys}$) tot. ($\eta_{F,sys}$)	%	63.5 71.8
fan speed (n) max. (n_{max})	rpm	1746 1750
fan speed, set value (% n_{max})	%	100
frequency (f_{BP}) (f_{max})	Hz	50 60
voltage (U_{DP})	V	400
current (I_{DP})	A	6.93
acoustics, suction side ($L_{w(A),5}$) ($L_{w,5}$)	dB	84 89
acoustics, pressure side ($L_{w(A),6}$) ($L_{w,6}$)	dB	91 95
dimensions (w x h x d)	in	28.74 x 28.74 x 20.31
product weight (m_{pr})	lb	138.9
k-factor nozzle pres. (k)	-	308
differential pres. nozzle ($p_{sF \text{ nozzle}}$)	Pa	2045

PF:PF_50; Ano:116181; STot:+-10 %





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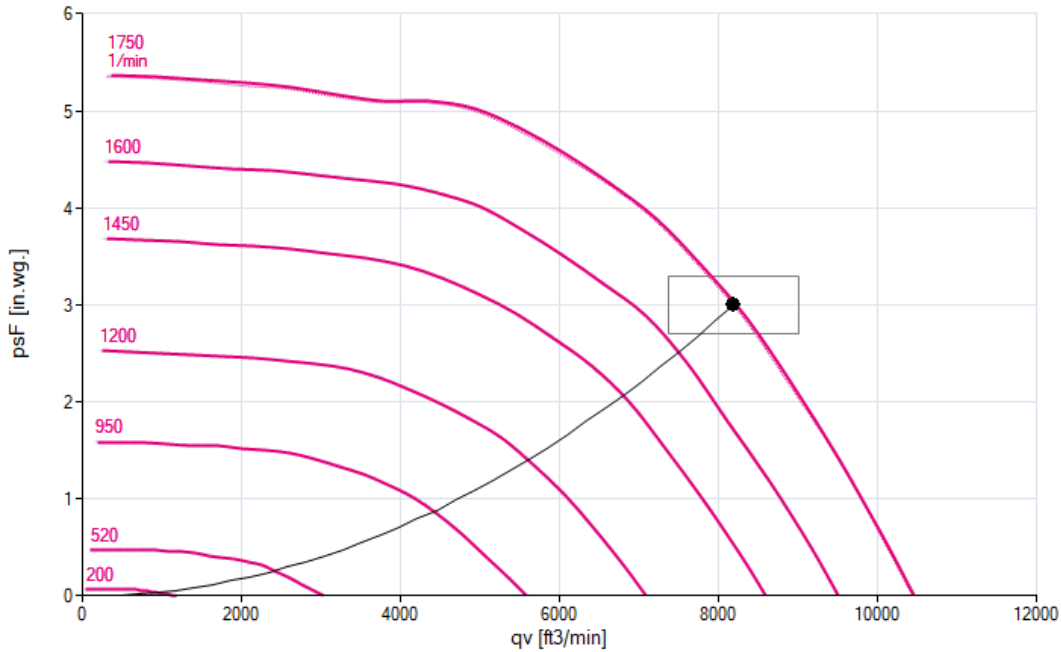
performance curve / acoustics

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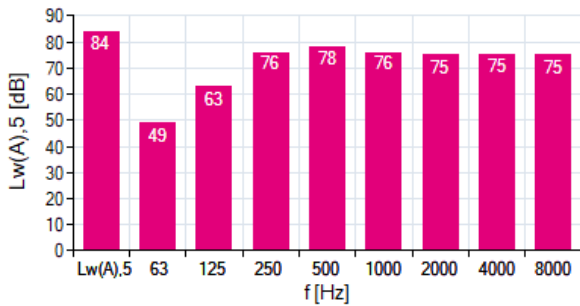
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- 1 GR56C-ZID.GL.CR** measured in standard nozzle in installation type A according to ISO 5801
 116181/A01 | Portfolio measurement density 0.072 [lbs/ft³]
 STD-WW

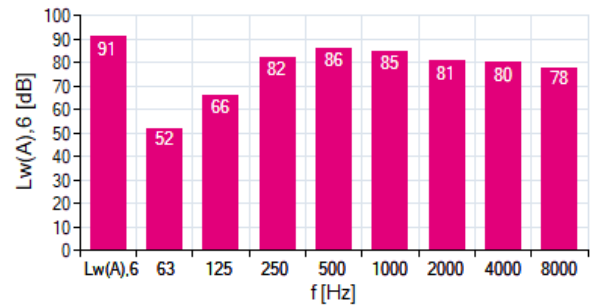
air performance p_{sF}



acoustics (L_{w(A),5})



acoustics (L_{w(A),6})



1 GR56C-ZID.GL.CR

f [Hz]	sum	63	125	250	500	1000	2000	4000	8000
L _{w(A),5}	84	49	63	76	78	76	75	75	75
L _{w,5}	89	74	77	87	81	76	73	74	76

f [Hz]	sum	63	125	250	500	1000	2000	4000	8000
L _{w(A),6}	91	52	66	82	86	85	81	80	78
L _{w,6}	95	78	81	93	89	85	79	79	79

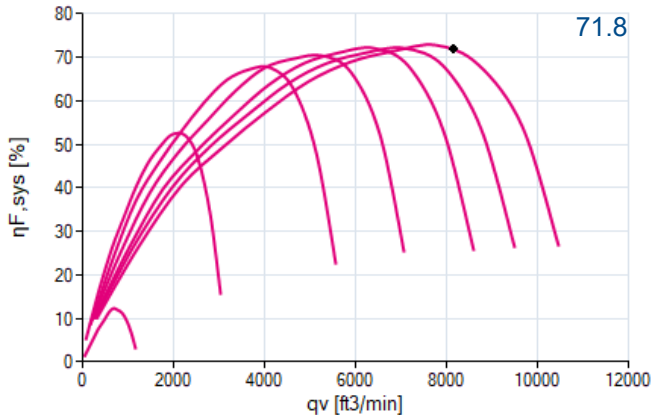
FANselect



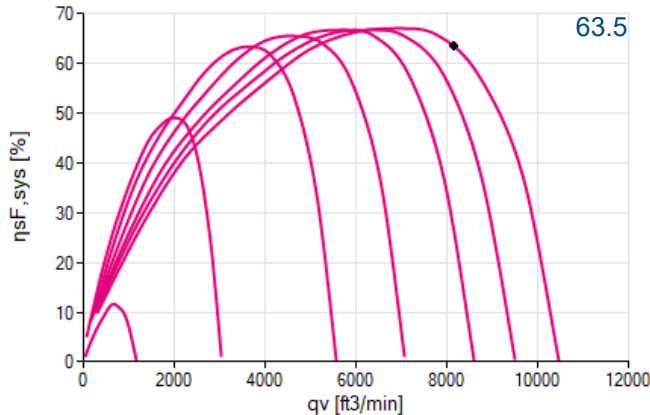
efficiency grade / power input 16/12/2021
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① **GR56C-ZID.GL.CR** measured in standard nozzle in installation type A according to ISO 5801
116181/A01 | Portfolio measurement density 0.072 [lbs/ft³]
STD-WW

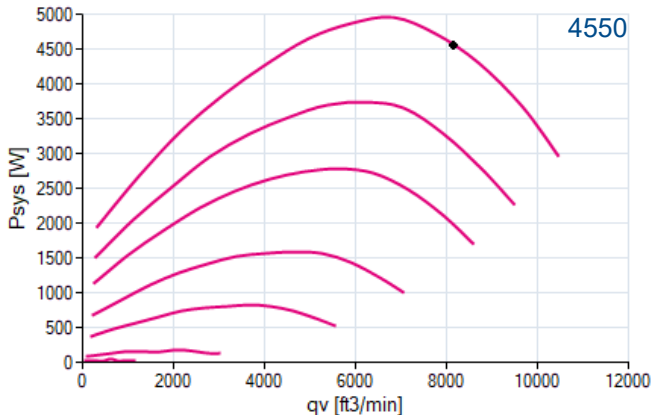
efficiency grade $\eta_{F,sys}$



efficiency grade $\eta_{sF,sys}$



power input P_{sys}



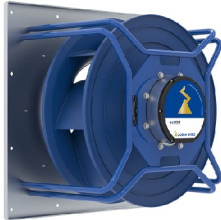


nominal values

16/12/2021

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1



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116181/A01

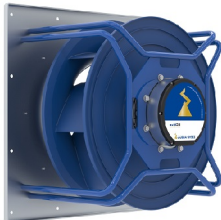
3~ 380-480V 50Hz P1 5.00kW
8.00-6.40A 1750/MIN 40°C
3~ 380-480V 60Hz P1 5.00kW
8.00-6.40A 1750/MIN 40°C
IP55 THCL155

drawing

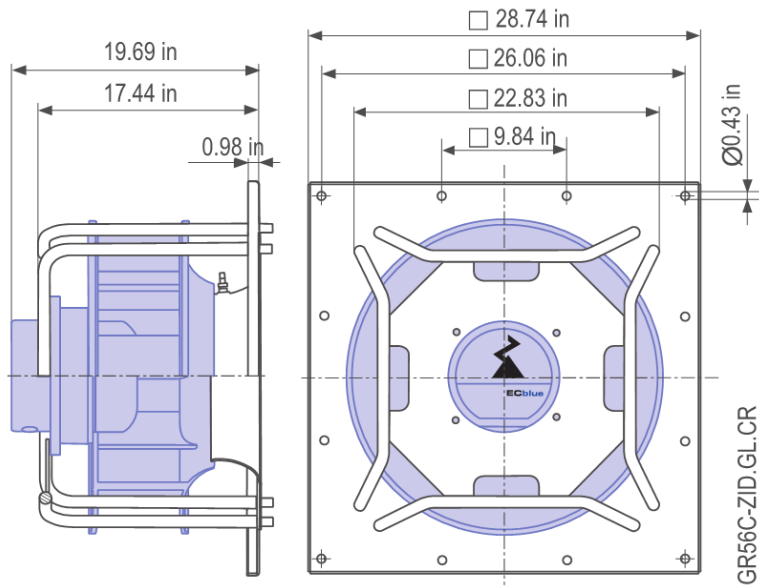
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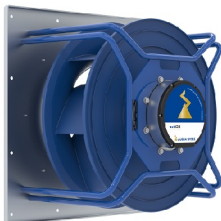


wiring diagram

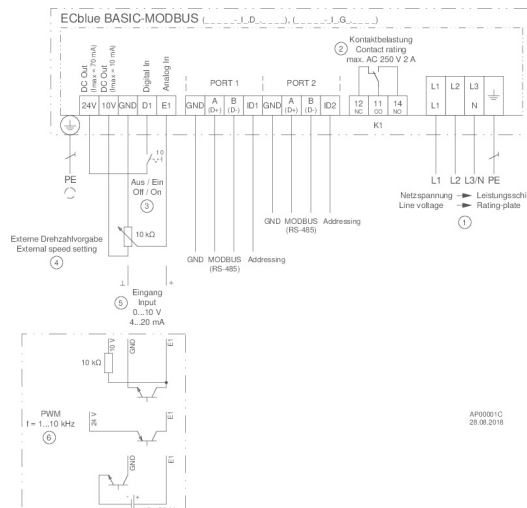
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1



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system components

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type	GR56C-ZID.GL.CR
article no.	116181/A01