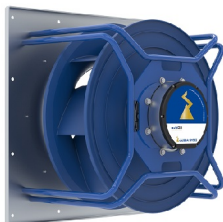




1



GR50C-ZID.GG.CR | 116179/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_):

FANselect



- **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

15/12/2021

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



type	GR50C-ZID.GG.CR
article no.	116179/A01 Portfolio STD-WW

technical data

motor	ECblue	
Efficiency class	IE5	
mains supply	-	3~ 400V 50Hz
ambient temperature, max. limit (t_r)	°C	55
efficiency grade η_{statA}	%	67,2
efficiency grade N_{actual} N_{target}		72,0 62
ErP-conformity		2015 EC controller integrated
grille influence		no

fan data

SFP-class SFP-value (P_{SFP})	- Ws/m^3	3 1178
airflow volume (q_v)	ft^3/min	5735.5
air velocity	ft/s	36.66
pressure, stat. (p_{sF}) tot. (p_F)	in.wg.	2.993 3.283
electrical power input (P_{sys})	W	3188
system eff., stat. ($\eta_{sF,sys}$) tot. ($\eta_{F,sys}$)	%	63.3 69.4
fan speed (n) max. (n_{max})	rpm	1858 1860
fan speed, set value ($\%n_{max}$)	%	100
frequency (f_{BP}) (f_{max})	Hz	50 60
voltage (U_{DP})	V	400
current (I_{DP})	A	4.86
acoustics, suction side ($L_{w(A),5}$) ($L_{w,5}$)	dB	81 86
acoustics, pressure side ($L_{w(A),6}$) ($L_{w,6}$)	dB	88 92
dimensions (w x h x d)	in	26.38 x 26.38 x 18.15
product weight (m_{pr})	lb	108.0
k-factor nozzle pres. (k)	-	252
differential pres. nozzle ($p_{sF \text{ nozzle}}$)	Pa	1495

PF:PF_50; Ano:116179; STol:+-10 %



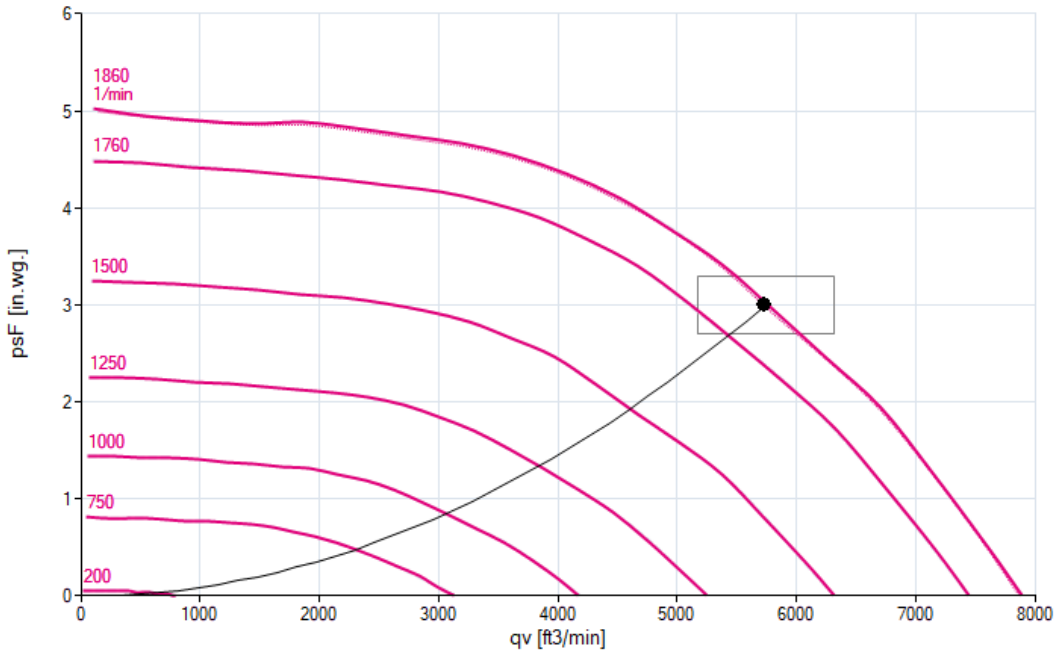


FANselect

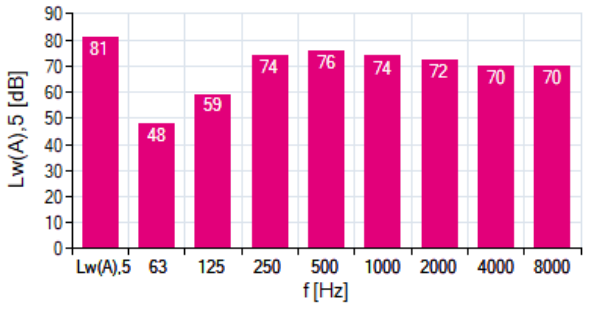
performance curve / acoustics 15/12/2021
 version FANselect V 1.01 (211209), AMCA V 1.03 September, 2021 / 1.21.12.09 | 53567 | (user ZAFS43567)

1 GR50C-ZID.GG.CR measured in standard nozzle in installation type A according to ISO 5801
 116179/A01 | Portfolio measurement density 0.072 [lbs/ft³]
 STD-WWW

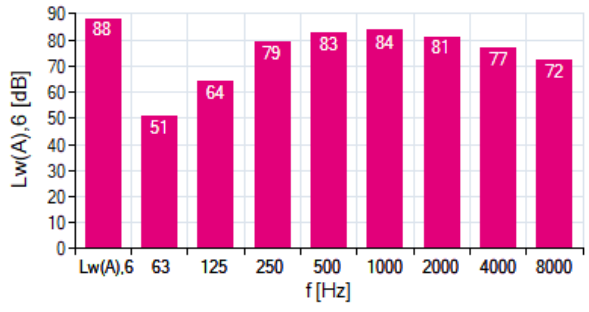
air performance p_{sF}



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



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



1 GR50C-ZID.GG.CR									
f [Hz]	sum	63	125	250	500	1000	2000	4000	8000
$L_{w(A),5}$	81	48	59	74	76	74	72	70	70
$L_{w,5}$	86	74	74	83	79	74	71	69	71

f [Hz]	sum	63	125	250	500	1000	2000	4000	8000
$L_{w(A),6}$	88	51	64	79	83	84	81	77	72
$L_{w,6}$	92	77	79	89	86	84	80	76	73

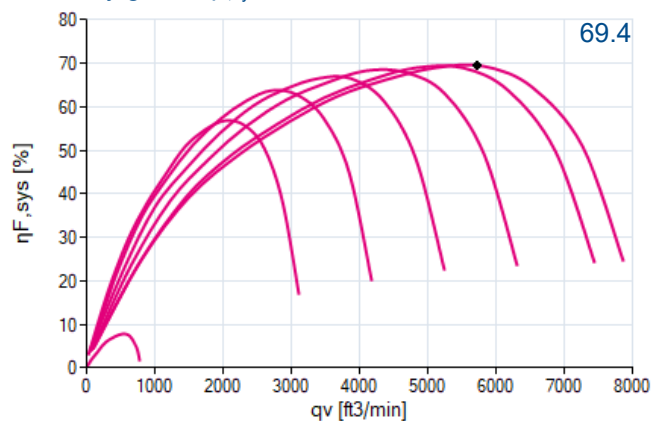
FANselect



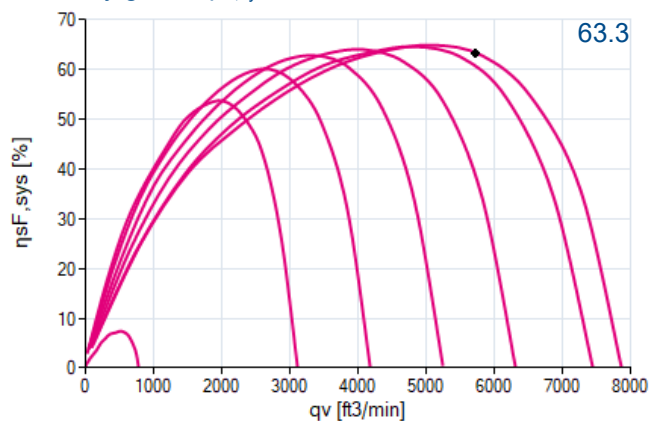
efficiency grade / power input 15/12/2021
version FANselect V 1.01 (211209), AMCA V 1.03 September, 2021 / 1.21.12.09 | 53567 | (user ZAFS43567)

1 GR50C-ZID.GG.CR measured in standard nozzle in installation type A according to ISO 5801
 116179/A01 | Portfolio measurement density 0.072 [lbs/ft³]
 STD-WWW

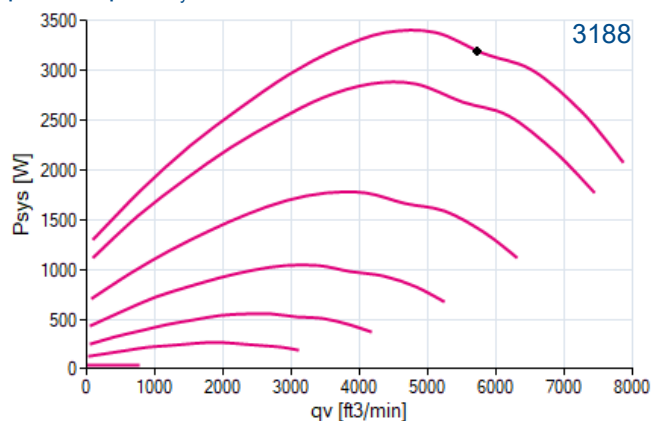
efficiency grade $\eta_{F,sys}$



efficiency grade $\eta_{SF,sys}$



power input P_{sys}



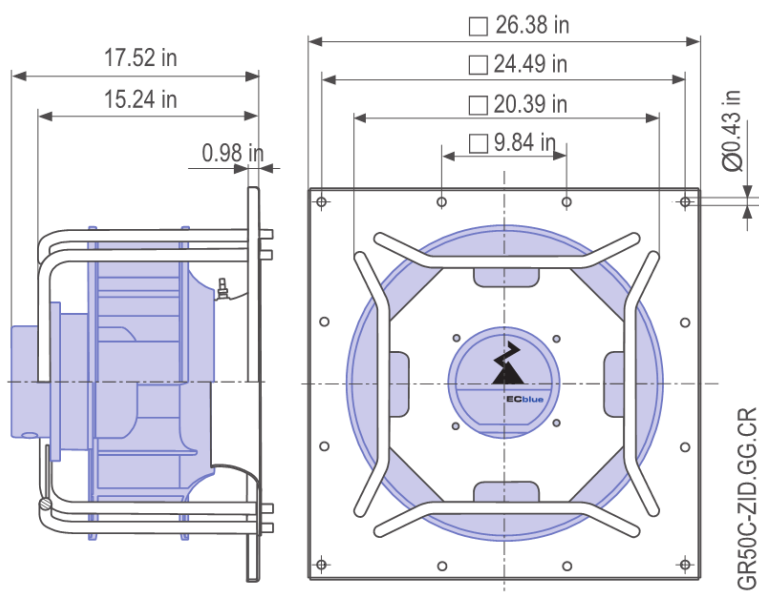


nominal values 15/12/2021
 version FANselect V 1.01 (211209), AMCA V 1.03 September, 2021 / 1.21.12.09 | 53567 | (user ZAFS43567)

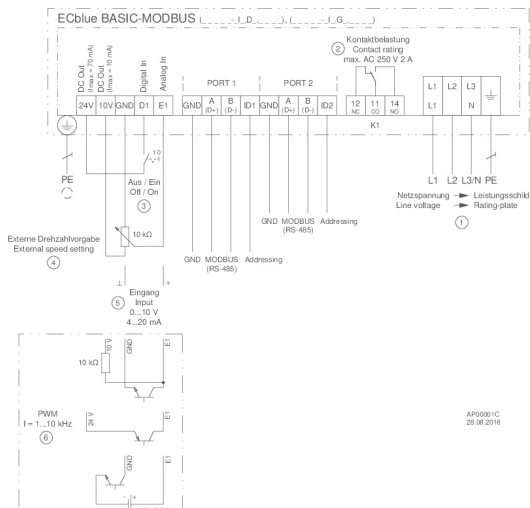


3~ 380-480V 50Hz P1 3.50kW
 5.60-4.40A 1860/MIN 55°C
 3~ 380-480V 60Hz P1 3.50kW
 5.60-4.40A 1860/MIN 55°C
 IP55 THCL155

drawing 15/12/2021
 version FANselect V 1.01 (211209), AMCA V 1.03 September, 2021 / 1.21.12.09 | 53567 | (user ZAFS43567)



wiring diagram 15/12/2021
 version FANselect V 1.01 (211209), AMCA V 1.03 September, 2021 / 1.21.12.09 | 53567 | (user ZAFS43567)





system components

15/12/2021

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



type	GR50C-ZID.GG.CR
article no.	116179/A01