

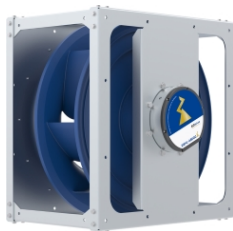


## general description

16/12/2021

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

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GR56C-ZID.GQ.CR | 116180/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.GQ.CR               |
| article no. | 116180/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 $\eta_{statA}$              | % 69,9                          |
| efficiency grade $N_{actual}$   $N_{target}$ | 72,3   62                       |
| ErP-conformity                               | 2015   EC controller integrated |
| grille   influence                           | no                              |

## fan data

|  |                       |                       |
|--|-----------------------|-----------------------|
| SFP-class   SFP-value ( $P_{SFP}$ )                              | -   Ws/m <sup>3</sup> | 3   1243              |
| airflow volume ( $q_v$ )   | ft <sup>3</sup> /min  | 9127.8                |
| air velocity   | ft/s                  | 47.10                 |
| pressure, stat. ( $p_{sF}$ )   tot. ( $p_F$ )                    | in.wg.                | 2.993   3.485         |
| electrical power input ( $P_{sys}$ )                             | W                     | 5355                  |
| system eff., stat. ( $\eta_{sF,sys}$ )   tot. ( $\eta_{F,sys}$ ) | %                     | 60.0   69.8           |
| 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                     | 8.09                  |
| acoustics, suction side ( $L_{w(A),5}$ )   ( $L_{w,5}$ )         | dB                    | 86   92               |
| acoustics, pressure side ( $L_{w(A),6}$ )   ( $L_{w,6}$ )        | dB                    | 93   98               |
| dimensions (w x h x d)   | in                    | 26.38 x 26.38 x 21.14 |
| product weight ( $m_{pr}$ )                                      | lb                    | 154.3                 |
| k-factor nozzle pres. (k)  | -                     | 308                   |
| differential pres. nozzle ( $p_{sF \text{ nozzle}}$ )            | Pa                    | 2535                  |

PF:PF\_50; Ano:116180; STol:+-10 %



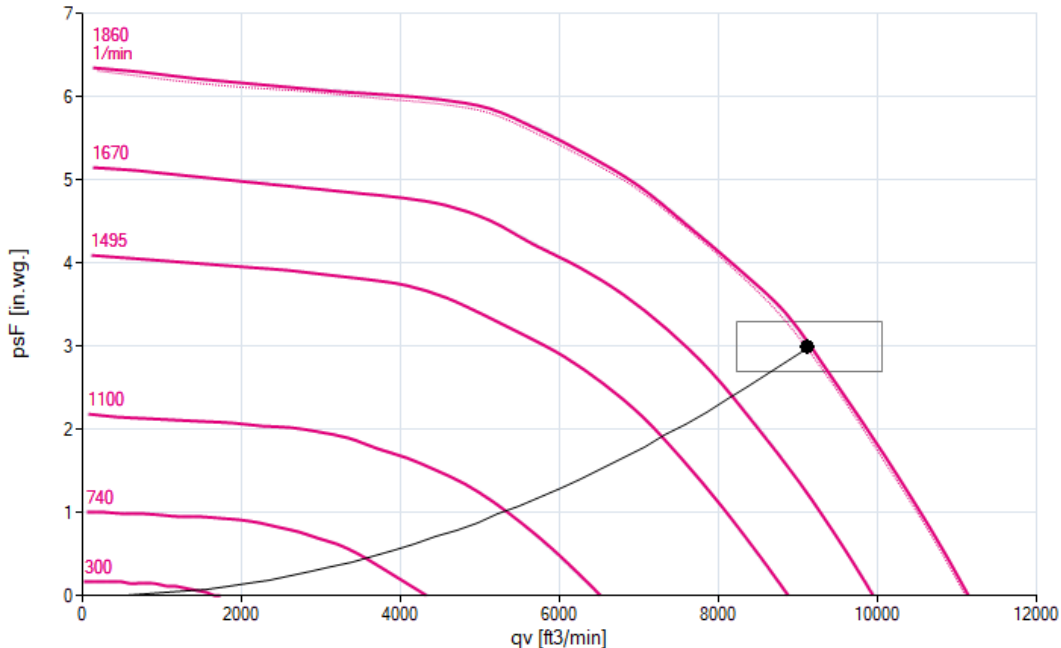


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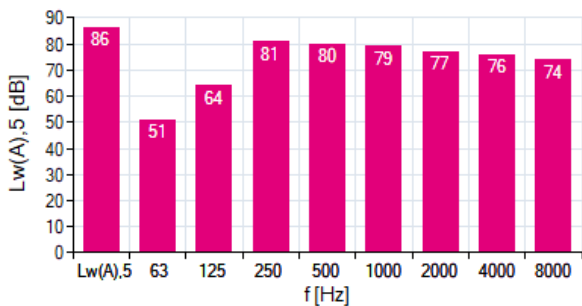
performance curve / acoustics version FANselect V 1.01 (211209), AMCA V 1.03 September, 2021 / 1.21.12.09 | 53567 | (user ZAFS43567)

**1 GR56C-ZID.GQ.CR** measured in standard nozzle in installation type A according to ISO 5801  
 116180/A01 | Portfolio measurement density 0.072 [lbs/ft<sup>3</sup>]  
 STD-WWW

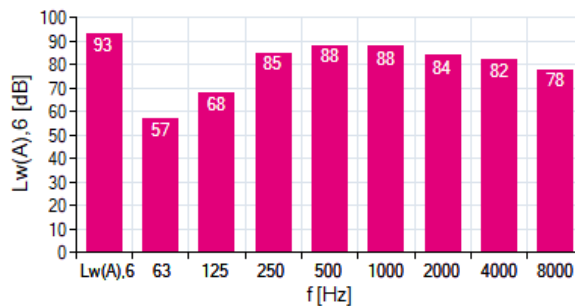
air performance p<sub>sF</sub>



acoustics (L<sub>w(A),5</sub>)



acoustics (L<sub>w(A),6</sub>)



| 1 GR56C-ZID.GQ.CR   |     |    |     |     |     |      |      |      |      |
|---------------------|-----|----|-----|-----|-----|------|------|------|------|
| f [Hz]              | sum | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
| L <sub>w(A),5</sub> | 86  | 51 | 64  | 81  | 80  | 79   | 77   | 76   | 74   |
| L <sub>w,5</sub>    | 92  | 77 | 79  | 90  | 83  | 79   | 76   | 75   | 76   |

| f [Hz]              | sum | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
|---------------------|-----|----|-----|-----|-----|------|------|------|------|
| L <sub>w(A),6</sub> | 93  | 57 | 68  | 85  | 88  | 88   | 84   | 82   | 78   |
| L <sub>w,6</sub>    | 98  | 83 | 83  | 96  | 91  | 88   | 82   | 81   | 80   |

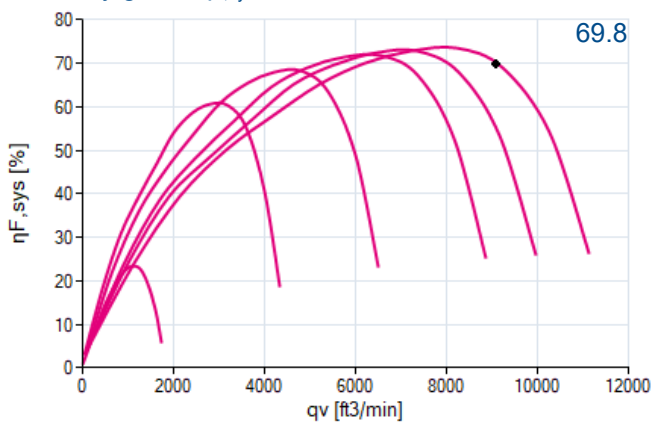
# FANselect



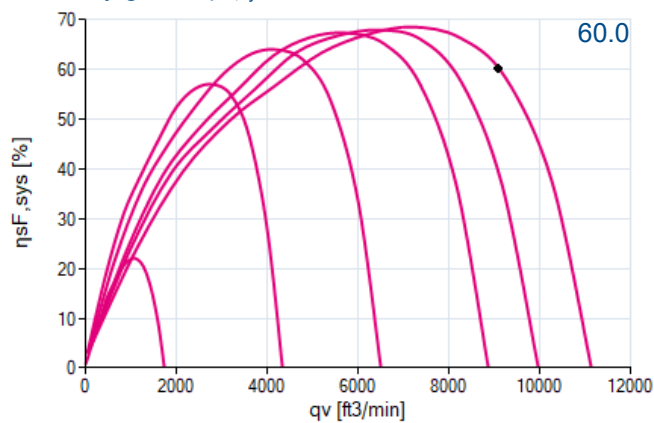
efficiency grade / power input 16/12/2021  
version FANselect V 1.01 (211209), AMCA V 1.03 September, 2021 / 1.21.12.09 | 53567 | (user ZAFS43567)

- 1 **GR56C-ZID.GQ.CR** measured in standard nozzle in installation type A according to ISO 5801  
116180/A01 | Portfolio measurement density 0.072 [lbs/ft<sup>3</sup>]  
STD-WWW

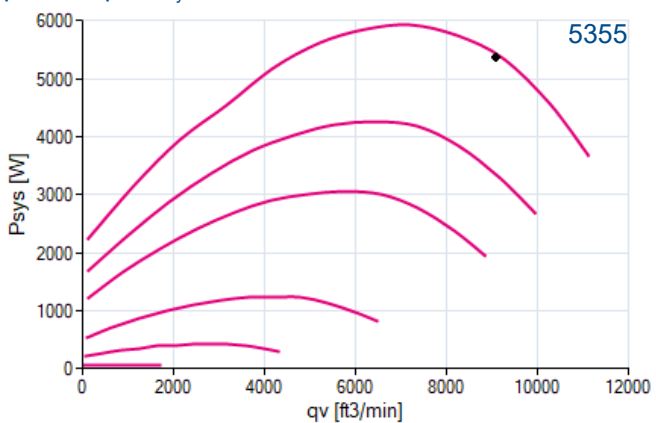
efficiency grade  $\eta_{F,sys}$



efficiency grade  $\eta_{sF,sys}$



power input  $P_{sys}$



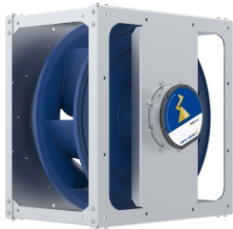


## nominal values

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GR56C-ZID.GQ.CR

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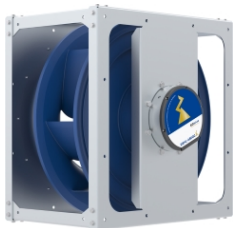
3~ 380-480V 50Hz P1 6.00kW  
 9.40-7.40A 1860/MIN 40°C  
 3~ 380-480V 60Hz P1 6.00kW  
 9.40-7.40A 1860/MIN 40°C  
 IP55 THCL155

## drawing

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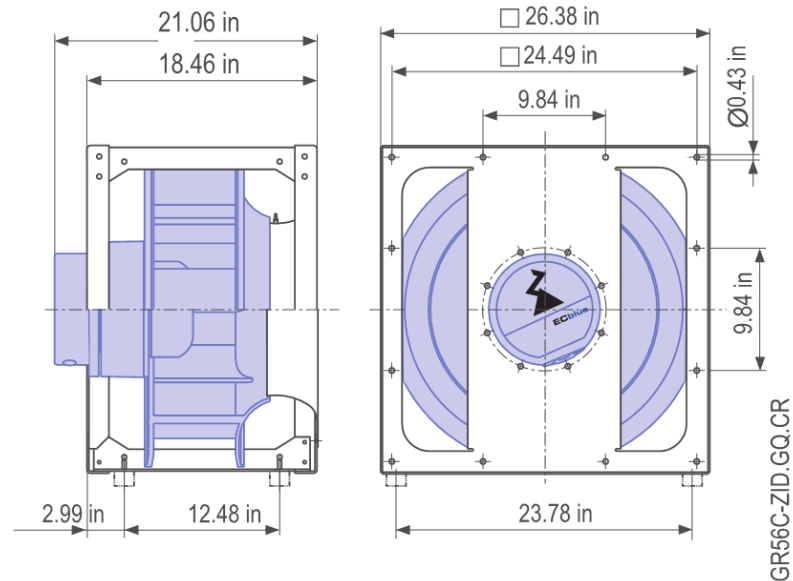
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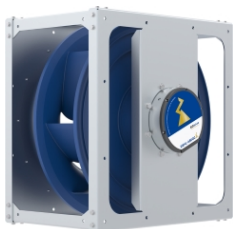


## wiring diagram

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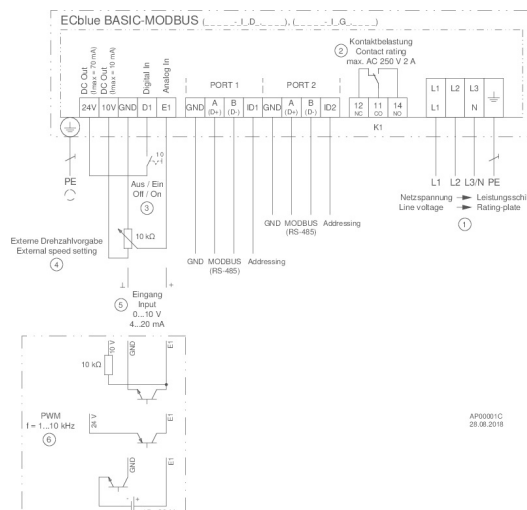
version FANselect V 1.01 (211209), AMCA V 1.03 September, 2021 / 1.21.12.09 | 53567 | (user ZAFS43567)

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## system components

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|             |                 |
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| article no. | 116180/A01      |