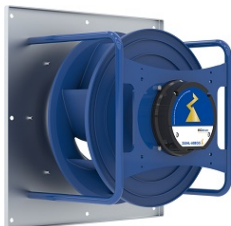




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GR35C-ZID.DG.CR | 116169/A01 | Portfolio STD-WW | Cpro ECblue

### 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

15/12/2021

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



type	GR35C-ZID.DG.CR
article no.	116169/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 $\eta_{statA}$	%	68,4
efficiency grade $N_{actual}$   $N_{target}$		72,9   62
ErP-conformity		2015   EC controller integrated
grille   influence		no

## fan data

SFP-class   SFP-value ( $P_{SFP}$ )	-   Ws/m <sup>3</sup>	4   1716
airflow volume ( $q_v$ )	ft <sup>3</sup> /min	3974.2
air velocity	ft/s	51.33
pressure, stat. ( $p_{sF}$ )   tot. ( $p_F$ )	in.wg.	3.882   4.454
electrical power input ( $P_{sys}$ )	W	3218
system eff., stat. ( $\eta_{sF,sys}$ )   tot. ( $\eta_{F,sys}$ )	%	56.4   64.7
fan speed ( $n$ )   max. ( $n_{max}$ )	rpm	3396   3400
fan speed, set value (% $n_{max}$ )	%	100
frequency ( $f_{BP}$ )   ( $f_{max}$ )	Hz	50   60
voltage ( $U_{DP}$ )	V	400
current ( $I_{DP}$ )	A	4.89
acoustics, suction side ( $L_{w(A),5}$ )   ( $L_{w,5}$ )	dB	87   91
acoustics, pressure side ( $L_{w(A),6}$ )   ( $L_{w,6}$ )	dB	94   96
dimensions (w x h x d)	in	19.69 x 19.69 x 14.96
product weight ( $m_{pr}$ )	lb	52.9
k-factor nozzle pres. (k)	-	121
differential pres. nozzle ( $p_{sF\ nozzle}$ )	Pa	3114

PF:PF\_50; BR:BR\_40;  $q_v$ :4000.0 ft<sup>3</sup>/min;  $p_{sF}$ :3.000 in.wg.; mains:3~ / 400V / 50 Hz;  $t_r$ :40 °C; size:355 mm;  $p$ :0.072 lbs/ft<sup>2</sup>; STol:+-10 %; BF:





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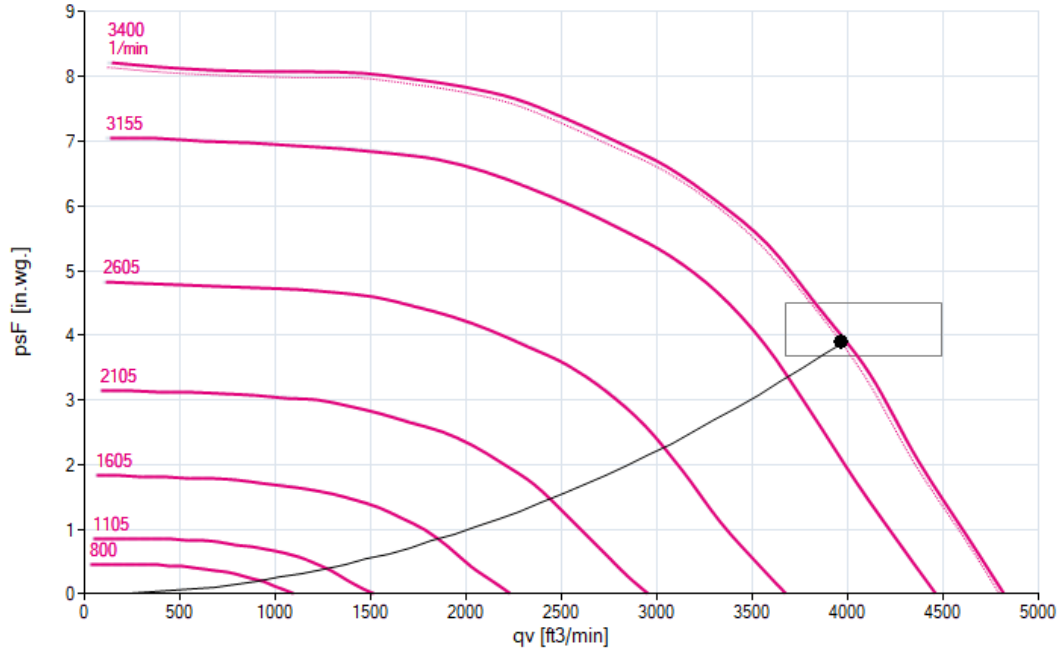
## performance curve / acoustics

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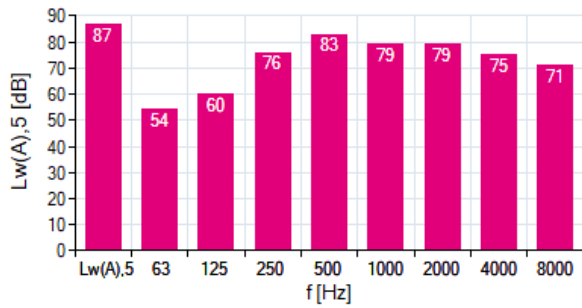
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**1 GR35C-ZID.DG.CR** measured in standard nozzle in installation type A according to ISO 5801  
 116169/A01 | Portfolio measurement density 0.072 [lbs/ft<sup>3</sup>]  
 STD-WWW

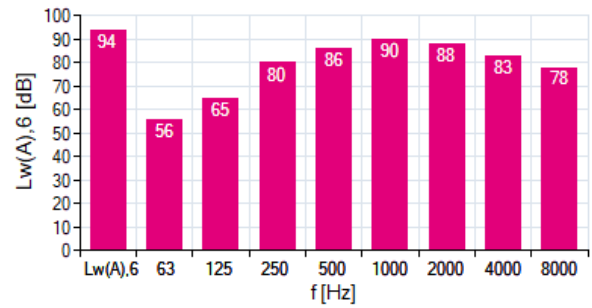
### air performance $p_{sF}$



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



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



**1 GR35C-ZID.DG.CR**

f [Hz]	sum	63	125	250	500	1000	2000	4000	8000
$L_{w(A),5}$	87	54	60	76	83	79	79	75	71
$L_{w,5}$	91	81	76	84	87	79	78	74	72

f [Hz]	sum	63	125	250	500	1000	2000	4000	8000
$L_{w(A),6}$	94	56	65	80	86	90	88	83	78
$L_{w,6}$	96	82	80	87	90	90	87	82	80

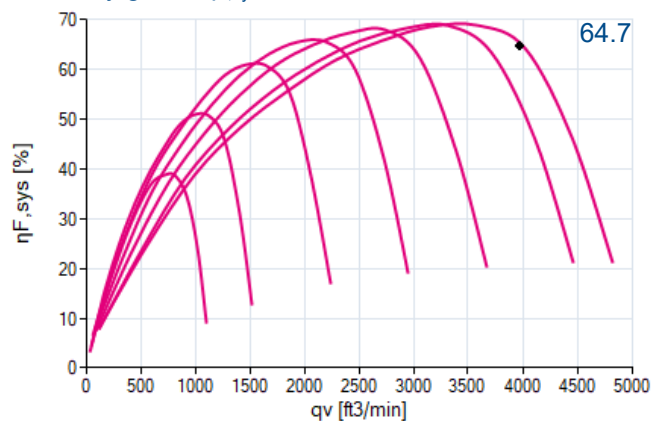
# FANselect



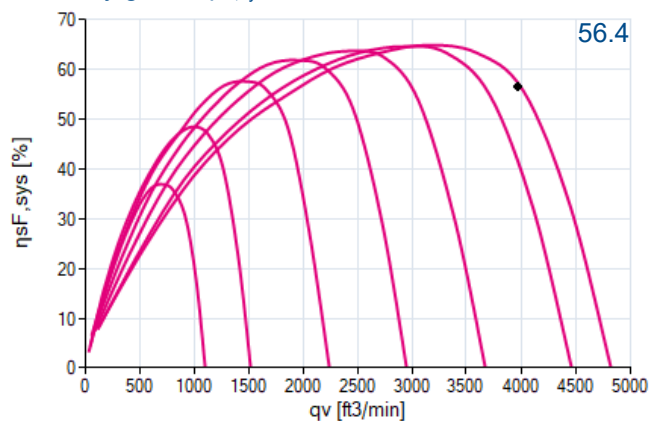
efficiency grade / power input 15/12/2021  
version FANselect V 1.01 (211209), AMCA V 1.03 September, 2021 / 1.21.12.09 | 53567 | (user ZAFS43567)

**1** **GR35C-ZID.DG.CR** measured in standard nozzle in installation type A according to ISO 5801  
 116169/A01 | Portfolio measurement density 0.072 [lbs/ft<sup>3</sup>]  
 STD-WWW

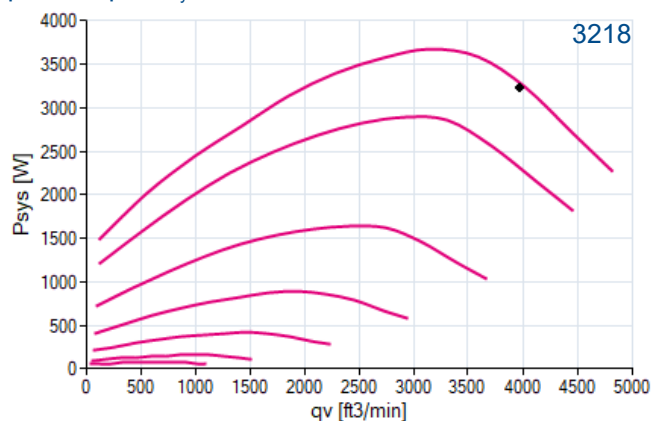
efficiency grade  $\eta_{F,sys}$



efficiency grade  $\eta_{SF,sys}$



power input  $P_{sys}$



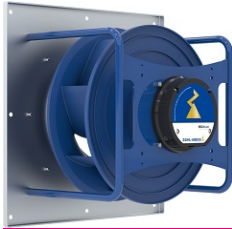


## nominal values

15/12/2021

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**GR35C-ZID.DG.CR**  
116169/A01

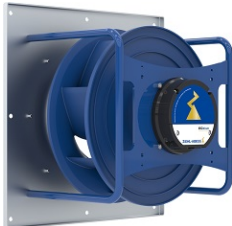
3~ 380-480V 50Hz P1 3.70kW  
5.80-4.60A 3400/MIN 40°C  
3~ 380-480V 60Hz P1 3.70kW  
5.80-4.60A 3400/MIN 40°C  
IP55 THCL155

## drawing

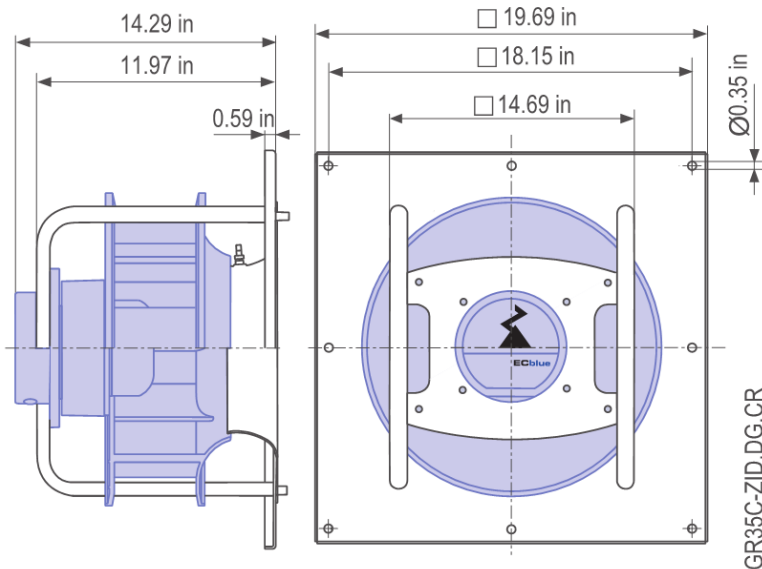
15/12/2021

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**GR35C-ZID.DG.CR**  
116169/A01

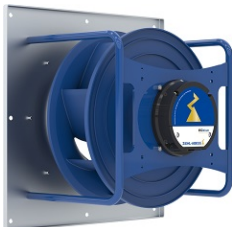


## wiring diagram

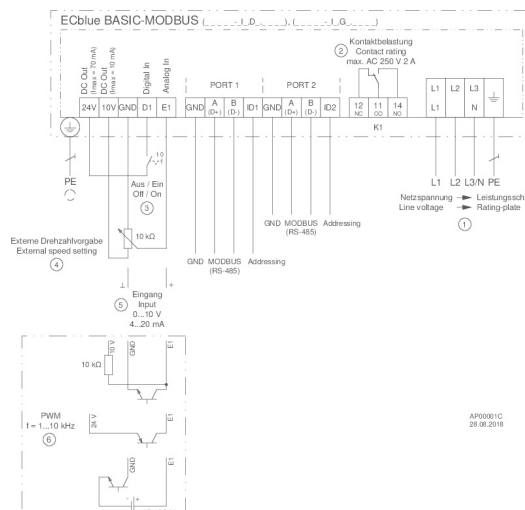
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**GR35C-ZID.DG.CR**  
116169/A01





## 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	GR35C-ZID.DG.CR
article no.	116169/A01