



FANselect

fan data

15.01.2015

version 1.01 (1371) / 1.14.6.1 | 420 | (user naum)

TEN WARIANT



type	ER35C-2DN.D7.CR	ER35C-ZID.DC.CR
article no.	130596/2F01 Portfolio STD-WW	114808/A01 Portfolio STD-WW

technical data

motor		ZAmotbasic IE2	ECblue
power output ($P_{2 \text{ main}}$)	kW	2.20	-
mains supply	-	3~ 400V 50Hz Y	3~ 400V 50Hz
nominal current (I_N)	A	4.49	-
motor efficiency (η_M)	%	83.2	-
ambient temperature, max. limit (t_r)	°C	40	40
efficiency η_{statA}	%	68,0	66,6
efficiency $\eta_{\text{actual}} \eta_{\text{target}}$	%	74,4 62	72,1 62
ErP-conformity		2015 VSD required	2015 EC controller integrated
grille influence		no no	no no

fan data

SFP-class SFP-value (P_{SFP})	- Ws/m ³	5 2060	5 2093
airflow volume (q_v)	m ³ /s	1.14	1.14
pressure, stat. (p_{sF}) tot. (p_F)	Pa	1280 1333	1280 1334
electrical power input (P_{sys})	W	2397	2360
system eff., stat. ($\eta_{\text{sF,sys}}$) tot. ($\eta_{\text{F,sys}}$)	%	60.9 63.4	61.8 64.4
electrical power input (P_1)	W	2325	-
efficiency, stat. (η_{sF}) tot. (η_F)	%	62.7 65.3	- -
shaft power (P_L) max. ($P_{L \text{ max}}$)	W	1997 2012	- -
impeller eff., stat. ($\eta_{\text{sF,L}}$) tot. ($\eta_{\text{F,L}}$)	%	73.1 76.1	- -
fan speed (n) max. (n_{max})	1/min	2906 2990	2920 3130
fan speed, set value ($\%n_{\text{max}}$)	%	97	93
frequency (f_{BP}) (f_{max})	Hz	50 53	50 60
voltage (U_{DP})	V	400	400
current (I_{DP})	A	4.04	3.64
acoustics, suction side ($L_{w(A),5}$) ($L_{w,5}$)	dB	79 83	80 85
acoustics, pressure side ($L_{w(A),6}$) ($L_{w,6}$)	dB	88 90	87 90
dimensions (w x h x d)	mm	500 x 520 x 570	500 x 520 x 450
product weight (m_{pr})	kg	37	24
k-factor nozzle pres. (k)	-	121	121
differential pres. nozzle ($p_{\text{sF nozzle}}$)	Pa	1150	1150

PF:PF_00; qv:1.14 m³/s; p_{sF}:1280 Pa; PF:PF_00; qv:1.14 m³/s; p_{sF}:1280 Pa;
 mains:3~ / 400V / 50 Hz; t:20 °C; p:1.16 kg/m³ mains:3~ / 400V / 50 Hz; t:20 °C; p:1.16 kg/m³
 ; STol:+0 %; BF:ER ; STol:+0 %; BF:ER



performance curve / acoustics

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ER35C-2DN.D7.CR

130596/2F01 | Portfolio
STD-WW

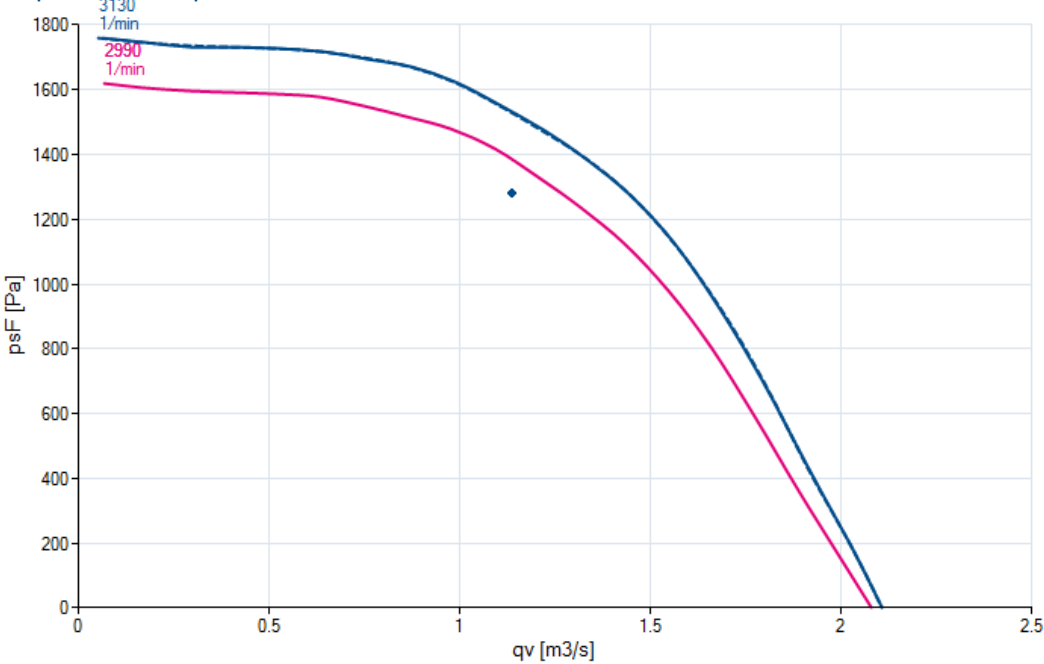
measured in standard nozzle in installation type A according to ISO 5801
measurement density 1.16 [kg/m³]
- 2

ER35C-ZID.DC.CR

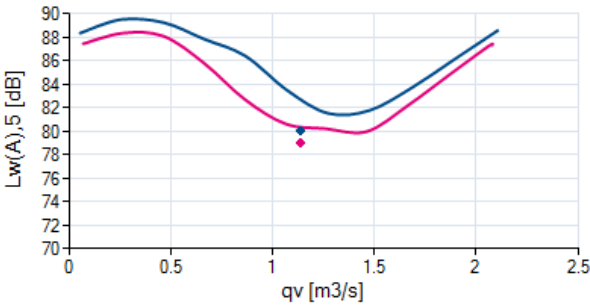
114898/A01 | Portfolio
STD-WW

measured in standard nozzle in installation type A according to ISO 5801
measurement density 1.16 [kg/m³]

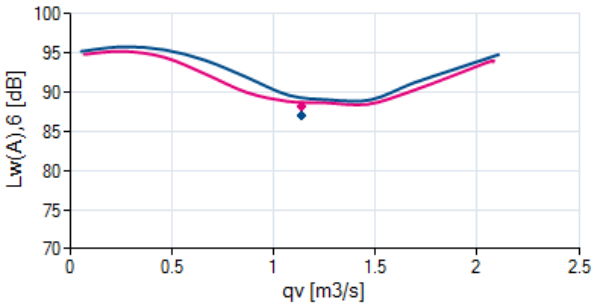
air performance p_{sF}



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



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



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f [Hz]	sum	63	125	250	500	1000	2000	4000	8000
$L_{w(A),5}$	79	44	50	73	71	72	73	71	65
$L_{w,5}$	83	69	66	80	75	72	72	70	66

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f [Hz]	sum	63	125	250	500	1000	2000	4000	8000
$L_{w(A),5}$	80	47	57	75	73	72	73	70	65
$L_{w,5}$	85	73	73	82	77	72	72	69	66

f [Hz]	sum	63	125	250	500	1000	2000	4000	8000
$L_{w(A),6}$	88	51	59	77	79	84	81	78	71
$L_{w,6}$	90	77	75	84	82	84	80	77	71

f [Hz]	sum	63	125	250	500	1000	2000	4000	8000
$L_{w(A),6}$	87	54	60	78	78	83	82	77	71
$L_{w,6}$	90	81	76	85	81	83	81	76	72





efficiency / power input

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STD-WW

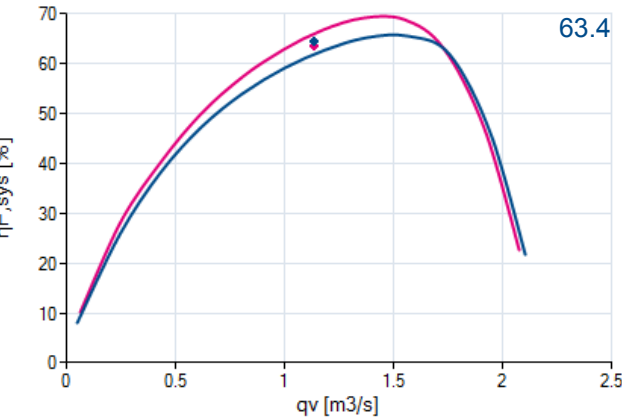
measured in standard nozzle in installation type A according to ISO 5801
measurement density 1.16 [kg/m³]
- 2

ER35C-ZID.DC.CR

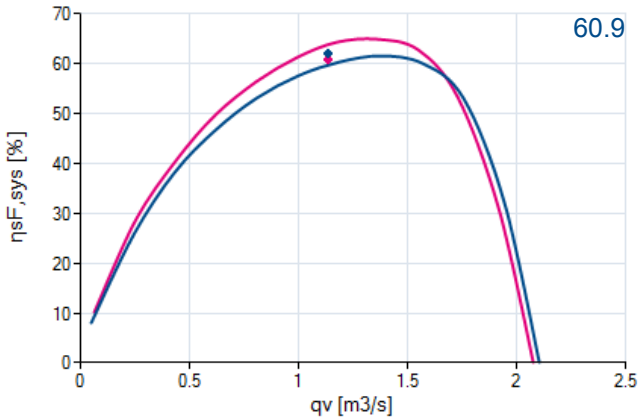
114898/A01 | Portfolio
STD-WW

measured in standard nozzle in installation type A according to ISO 5801
measurement density 1.16 [kg/m³]

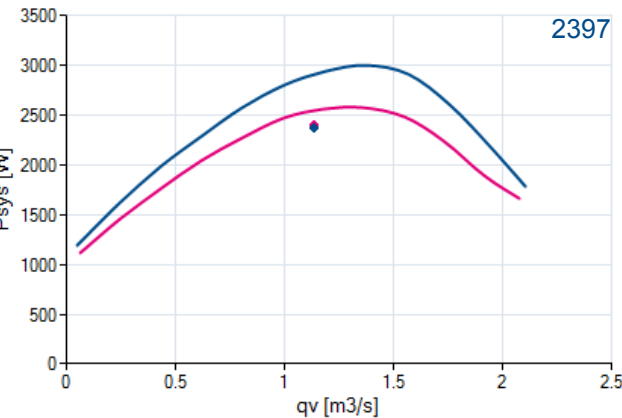
efficiency $\eta_{F,sys}$



efficiency $\eta_{sF,sys}$



power input P_{sys}





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nominal values

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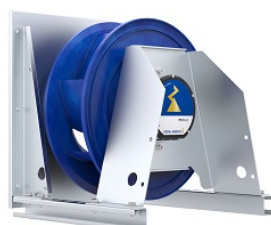


ER35C-2DN.D7.CR

130596/2F01

3~ 230/400V D/Y 50Hz P2 2.20kW
 7.78/4.49A 2890/MIN 40°C
 IP55 THCL155
 fan speed, max. (n_{max}) 2990 1/min

2



ER35C-ZID.DC.CR

114898/A01

3~ 380-480V 50Hz P1 3.00kW
 4.80-3.80A 3130/MIN 40°C
 3~ 380-480V 60Hz P1 3.00kW
 4.80-3.80A 3130/MIN 40°C
 IP54 THCL155



FANselect

drawing

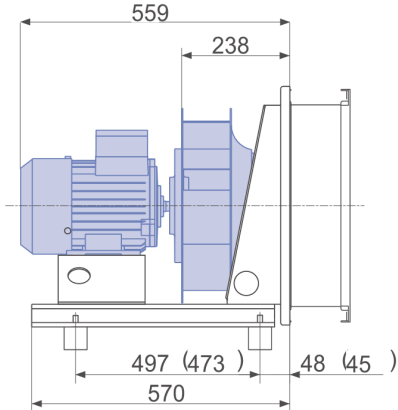
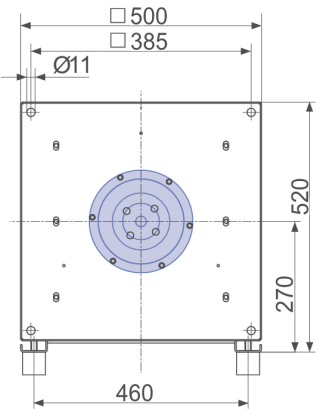
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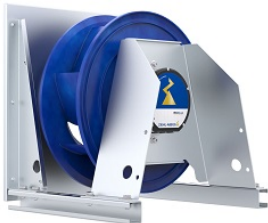


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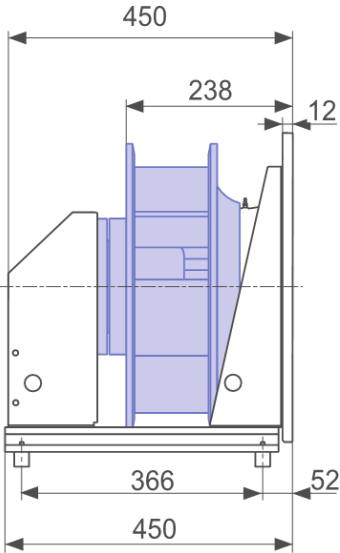
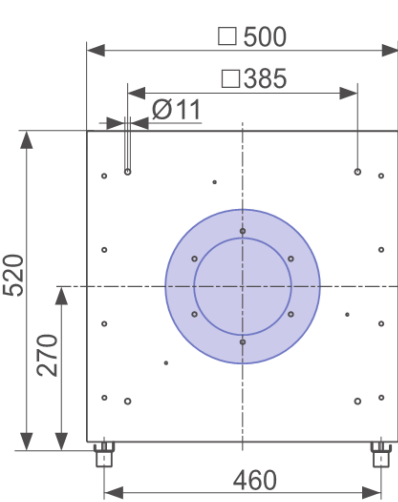


ER25C-2DN

2



ER35C-ZID.DC.CR
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ER35C-ZID.DC.CR



wiring diagram

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1



ER35C-2DN.D7.CR
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1~Motor mit Kondensator und Thermostatschalter.
1~Motor with capacitor and thermostatic switch.
Moteur monophasé avec condensateur et interrupteur thermostatique.

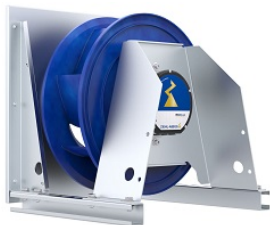
U2 blau oder grau blue or grey bleu ou gris
Z2 schwarz black noir
TB braun brown brun

not
available

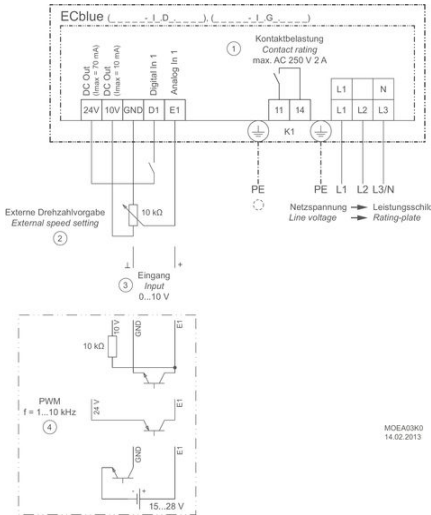


Anschlussschaltbild im Anschlusskasten aufbewahren.
Keep wiring diagram in terminal box.
Conserver le schéma de raccordement dans la boîte à bornes.

2



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system components

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type	ER35C-2DN.D7.CR	ER35C-ZID.DC.CR
article no.	130596/2F01	114898/A01

- mechanical component**
- rubber anti-vibration mount
 - type: 32F30
 - article no.: 90144
 - connectors at inlet
 - type: connectors at inlet
 - article no.: 406514
 - guard grille
 - type: guard grille
 - article no.: 409760
 - spring vibration damper
 - type: 32F35
 - article no.: 2006447