

## FE2owlet with ZAplus

for three phase alternating current, 6-6 pole

ZN091-SD



### Description

Motor technology: AC

Rated voltage  $U_N$ : 3~400 V ( $\Delta/Y$ )  $\pm 10\%$ \*

Rated frequency  $f_n$ : **50 Hz\*** (60Hz data available)

Input power  $P$ : 1.8/1.05 kW\*

Rated current  $I$  : 3.80/1.90 A\*

Rated speed  $n_n$ : 850/ 640 min<sup>-1</sup>\*

Starting current  $I_s$ : 11.00 / 3.40 A

Current increase  $\Delta I$ : 0 %

Thermal class: **THCL155\***

Min. permitted ambient temperature  $t_{\text{D(min)}}$ : -40 °C\*\*\*

Max. permitted ambient temperature  $t_{R(max)}$ : 65 °C

Electrical connection: Terminal box

Number of blades: 7

Degree of protection : IP54

Motor protection: thermal contact

Blades: Aluminium, 2 coat paint, jet black

Rotor: Aluminium, 2 coat paint, jet black

Conformity: ErP 2015, CE

## ErP-data

Efficiency  $\eta_{\text{statA}}$ : 44.7 %

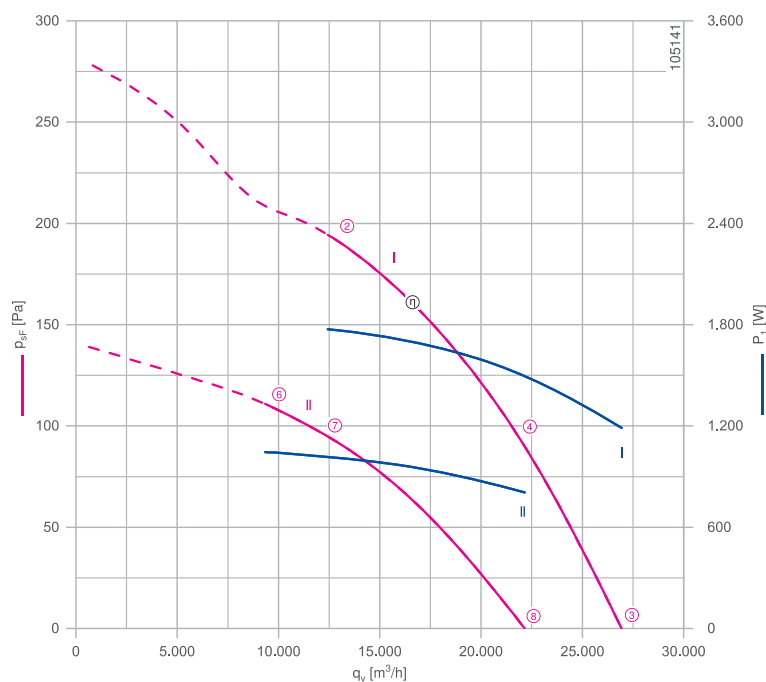
Efficiency grade:  $N_{\text{actual}} = 49.6 / N_{\text{target}} = 40^{**}$

\* Rated data

ErP 2015

\*\*\* Continuous operation with occasional starts (S1) according to DIN EN 60034-1:2011-02. Occasional starting between -40 °C and -25 °C is permissible. Continuous operation below -25 °C only with special bearings for refrigeration applications on request.

### Characteristic curve



Measured in ZApplus without guard grille in installation type A according to ISO 5801.

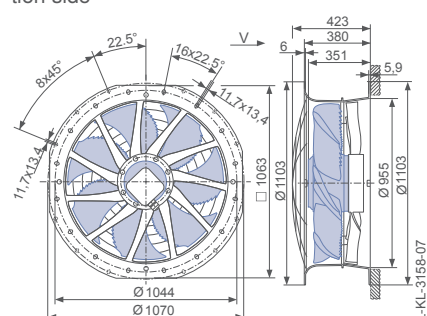
### Connection diagram

1360-108XA

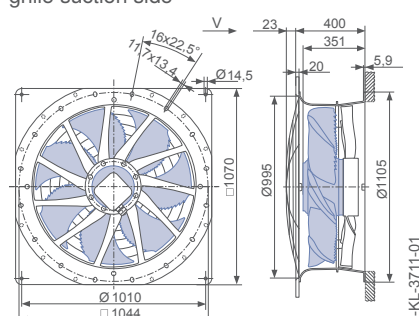
## Dimensions mm

## Airflow direction

Design L - ZAprus Ontop, guard grille suction side

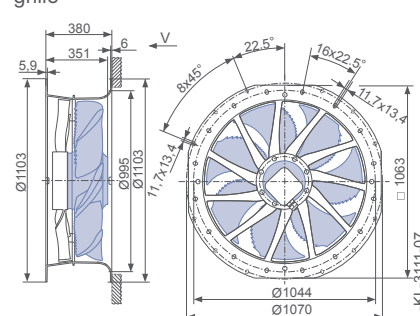


Design Q - ZAprus with adapter plate, guard grille suction side



Airflow direction

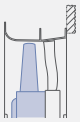
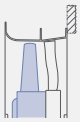
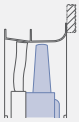



Design L - ZAplus Ontop without guard grille



## Performance data

Type	Characteristic curve	Connection	Voltage	Operating point	Current	Input power	Speed	Acoustic pressure level 7m	Specific power
			U V		I A	P <sub>i</sub> W	n min <sup>-1</sup>	L <sub>DA</sub> dB(A)	P <sub>spez</sub> Wh/1000m³
ZN091-SD_6N.V7P2	I	Δ	400	②	3.80	1750	850		144.0
				③	3.10	1200	910	57	44.1
				④	3.50	1550	870	54	70.9
	II	Y		⑥	1.85	1050	640		112.2
				⑦	1.50	800	750	51	36.4
				⑧	1.85	1050	650	51	88.6

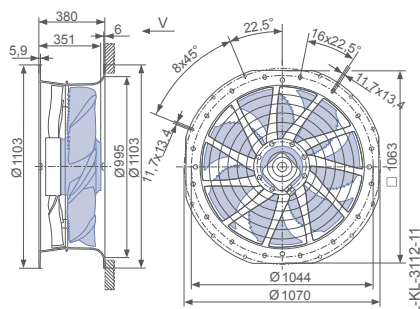
## Fan ordering information

Airflow direction			Airflow direction			
Design	L (guard grille suction side) Ontop	Q (guard grille suction side)	L (without guard grille) Ontop	L (guard grille pressure side) Ontop	Q (without guard grille)	Q (guard grille pressure side)
						
Type	ZN091-SDL.6N.V7P2	ZN091-SDQ.6N.V7P2	ZN091-SDL.6N.V7P2	ZN091-SDL.6N.V7P2	ZN091-SDQ.6N.V7P2	ZN091-SDQ.6N.V7P2
Article no.	178380	178383	178379	178381	178382	178384
Weight kg	44.00	47.90	40.40	42.30	44.30	46.20
ZApplus attachable on both sides.						

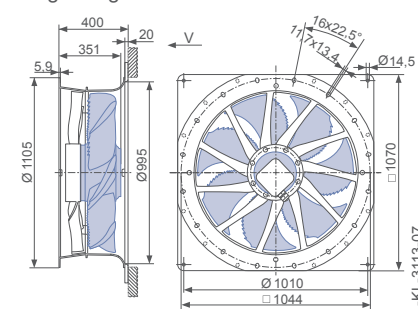
## Control technology



Design L - ZApplus Ontop, guard grille pressure side



Design Q - ZApplus with adapter plate, without guard grille



Design Q - ZApplus with adapter plate, guard grille pressure side

