

Fiche produit Motralec Ziehl Abegg Fe2Owlet With Zaplus ZN080 SD 3 - fiche technique | Motralec

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Oil transformer cooling Fans for transformer cooling
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FE2owlet with ZApus

for three phase alternating current, 6-6 pole

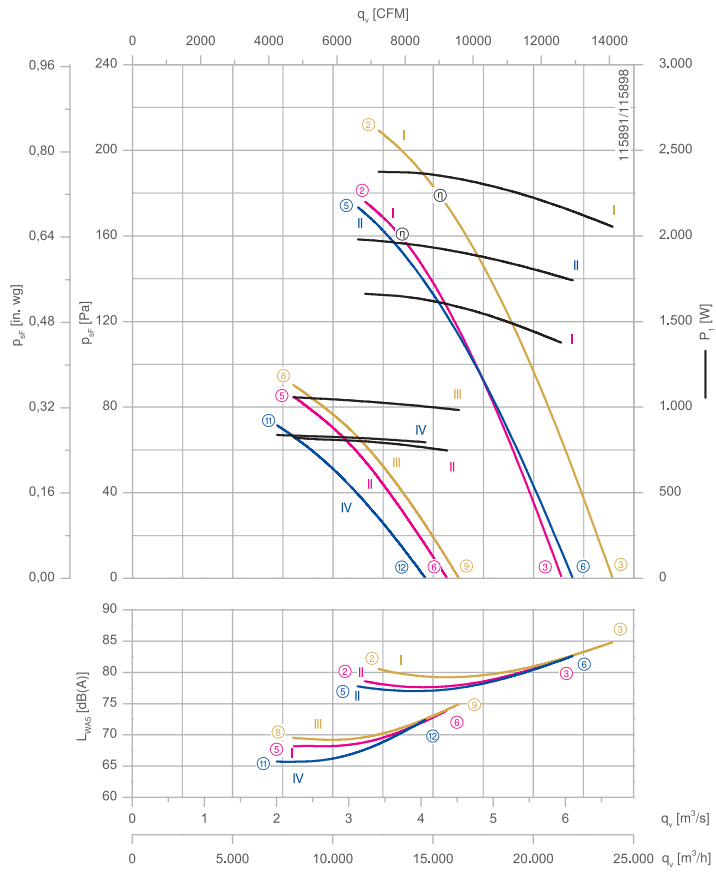
ZN080-SD



Description

Motor technology: AC
 Rated voltage $U_N \pm 10\%$:
 3- 400 V (Δ/Y) | 3-400 V (Δ/Y) | 3-460 V (Δ/Y) *
 Rated frequency f_N : 50 Hz | 60 Hz | 60 Hz*
 Input power P_i :
 1.65/0.82 kW | 2.00/0.84 kW | 2.40/1.05 kW*
 Rated current I_N :
 3.60/1.60 A | 3.90/1.60 A | 4.20/1.75 A*
 Rated speed n_N :
 800/560 min⁻¹ | 790/510 min⁻¹ | 870/570 min⁻¹*
 Speed n at $p_{stat} = 0$ Pa:
 840/620 min⁻¹ | 870/580 min⁻¹ | 940/640 min⁻¹*
 Motor input power P at $p_{stat} = 0$ Pa:
 1400/740 W | 1750/800 W | 2100/980 W*
 Air flow q_v at $p_{stat} = 0$ Pa:
 5.9/4.4 m³/s | 6.1/4.1 m³/s | 6.7/4.5 m³/s*
 Starting current I_A : 9.5/3.0 A | 8.5/2.6 A | 10/3.2 A
 Current increase ΔI : 0 % | 0 % | 0 %
 Thermal class: THCL155*
 Min. permitted ambient temperature $t_{R(min)}$: -40 °C***
 Max. permitted ambient temperature $t_{R(max)}$:
 65 °C | 50 °C | 40 °C
 Electrical connection: Terminal box
 Number of blades: 7
 Degree of protection : IP54
 Motor protection: thermal contact
 Blades: Aluminium, 2 coat paint, RAL 9005 (jet black)
 Rotor: Aluminium, 2 coat paint, RAL 9005 (jet black)
 Conformity: ErP 2015, CE
ErP-data
 Efficiency η_{statA} : 39.4 %
 Efficiency: $N_{actual} = 44.4 / N_{target} = 40$ **
 * Rated data
 **ErP 2015

Characteristic curve



Measured in ZApus and guard grille on suction side in installation type A according to ISO 5801.

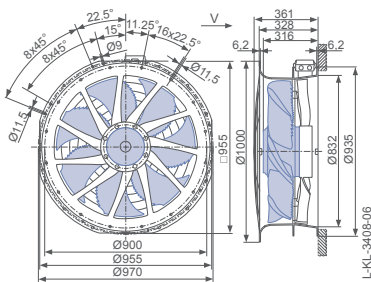
*** Continuous operation with occasional starts (S1) according to DIN EN 60034-1:2011-02. Occasional starting between -40 °C and -25 °C is permissible. Continuous operation below -25 °C only with special bearings for refrigeration applications on request.

Connection diagram Page 252
 1360-108XA
 System components Page 184

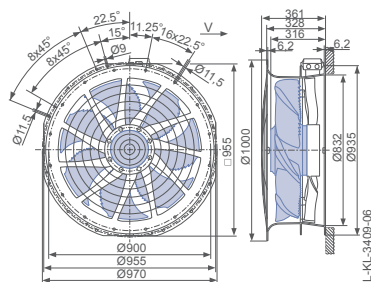
Dimensions mm

Airflow direction

Design L - ZApus, guard grille suction side with connection box



Design L - ZApus, guard grille two-sided with connection box


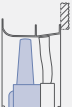


Type	Connection	Characteristic curve	Voltage	Frequency	Operating point	Current	Input power	Speed	Suction side sound power level			
			U V	f Hz		I A	P _i W	n min ⁻¹	L _{WAS} dB(A)			
ZN080-SDL.6N.V7P5	Δ	I	400*	50	②	3.60*	1650*	800*	79			
					③	3.20*	1400*	840*	82			
					⑤	1.60*	820*	550*	68			
		Y			II	⑥	1.45*	740*	620*	74		
						Δ	I	②	4.20*	2400*	860*	81
								③	3.70*	2100*	940*	85
	Y	II	400*	⑤	3.90*	2000*	790*	78				
				⑥	3.50*	1750*	870*	83				
				⑧	1.75*	1050*	570*	70				
		IV	400*	⑨	1.65*	980*	640*	75				
				⑪	1.60*	840*	510*	66				
				⑫	1.55*	800*	580*	72				

*rated data

Fan ordering information

Airflow direction

Design	L (guard grille suction side)	L (guard grille two-sided)
		
Type	ZN080-SDL.6N.V7P5	ZN080-SDL.6N.V7P5
Article no.	176053/10K4	176053/10K6
Weight kg	42.80	44.20
ZApplus attachable on both sides.		

Control technology

Frequency inverters Fcontrol 3~	Motor protection units 3~	Electronic voltage controllers 3~
		
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