

FAN DATA SHEET

Fan type: CV-250/1	ISO-13348	version : V20a	1/0/1,4
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Requested data	
flow	2500 m³/h
static pressure	270 Pa 1,202 kg/m³

Customer:	Impexron GmbH	offer:	120200188
Project:		order:	
Remarks:		article:	

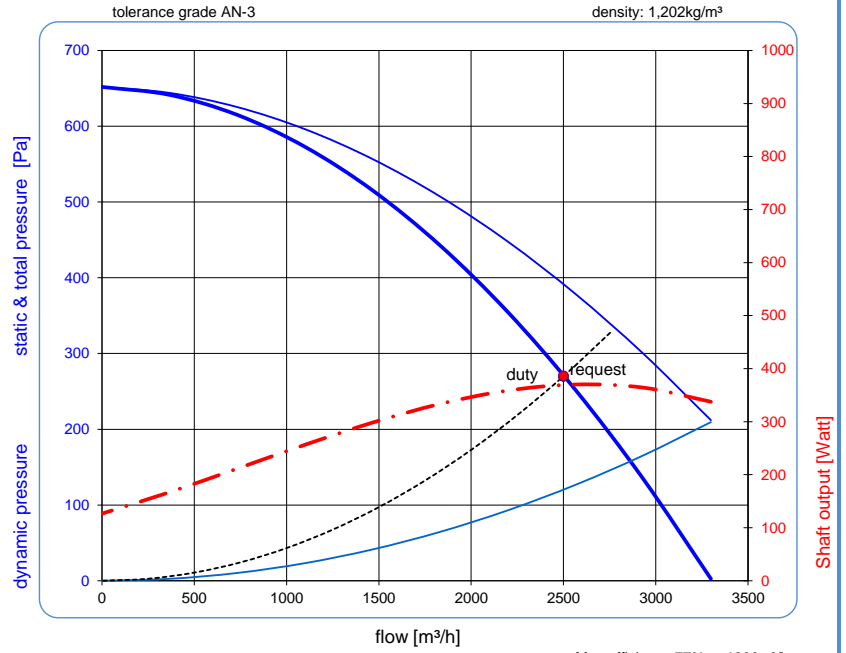
Operating data			
flow duty point	2500 m³/h		
pressure	static	271 Pa	
	total	391 Pa	
	dynamic	121 Pa	
	temperature medium	20 °C	
density	1,202 kg/m³		
power duty point	369 Watt		
temperature rise ± 0,3°C	efficiency	74 %	
medium velocity inlet	14,1 m/s	outlet	14,1 m/s
rotation speed	1450 rpm	tip speed	31 m/s
outlet: Reynolds	2,3E+05	Mach	0,041
		Kp	1,00

Dimensions			
impeller diam	405 mm	Inertia	0,13 kgm²
time start approx	DOL 3,1	Y/D	sec
type of blades	16x backward curved	f = 387 Hz	
material: impeller	AISI304	casing	Alu 226
total weight ±	50 kg		
connection outlet: diameter	250 mm	inlet: diameter	250 mm

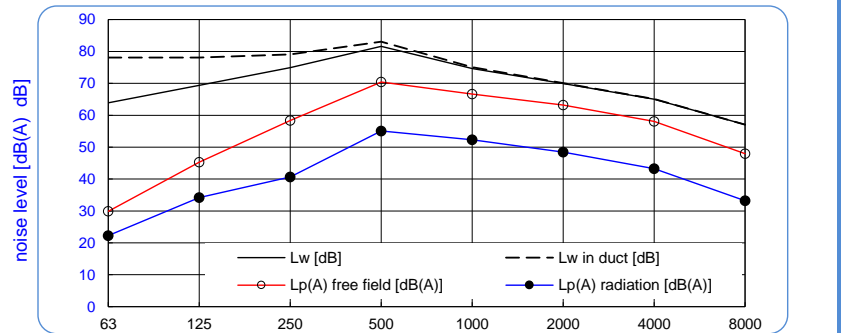
Electric data motor IE1		
power	0,55 kW	4 poles
voltage 3 phase	400 V	50Hz
current, full load (In)	1,32 Amp	5,6 Is/In

EU regulation 327/2011	ecodesign ErP 2015	overall efficiency η	56,7%	category	B total	VSD not assumed	2020
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Sound data		tolerance grade AN-3
amounts of fans	1	-
sound divided by directions	1	-
distance free field	hemisphere radius	1 m
directivity outlet	not applicable	
silencer in- or outlet	none	
remarks silencer		
acoustic insulation	none	mm
insulation cover with reverberation	no	
motor: sound power level Lw	56,1	dB(A)
distance 1m sound pressure level Lp	47,0	dB(A)
SPL radiation casing + motor	58,1	dB(A)



Sound data		noise level [dB(A)]									
				63	125	250	500	1000	2000	4000	8000Hz
sound power level PWL	Lw	83,6	dB	64	69	75	82	75	70	65	57
	Lw(A)	80,8	dB(A)	38	53	66	78	75	71	66	56
sound power level in duct PWL	Lw	86,6	dB	78	78	79	83	75	70	65	57
	Lw(A)	82,0	dB(A)	52	62	70	80	75	71	66	56
sound pressure level free field SPL @ 1m	Lp	75,6	dB	56	61	67	74	67	62	57	49
free inlet	Lp(A)	72,8	dB(A)	30	45	58	70	67	63	58	48
sound pressure level free field SPL @ 1m	Lp	60,7	dB	48	50	49	58	52	47	42	34
radiation casing (ex motor)	Lp(A)	57,8	dB(A)	22	34	41	55	52	48	43	33



user: r.beksvoot 27-2-2020

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