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Limited partnership · Headquarters Mulfingen  
County court Stuttgart · HRA 590344General partner Elektrobau Mulfingen GmbH · Headquarters Mulfingen  
County court Stuttgart · HRB 590142**Nominal data**

Type	S8D910-CD03-01					
Motor	M8D138-LA					
Phase		3~	3~	3~	3~	3~
Nominal voltage	VAC	400	400	400	400	480
Connection		Δ	Y	Δ	Y	Y
Frequency	Hz	50	50	60	60	60
Type of data definition		ml	ml	ml	ml	ml
Valid for approval / standard		CE	CE	CE	CE	CE
Speed	min <sup>-1</sup>	650	475	700	430	520
Power input	W	1150	640	1430	620	860
Current draw	A	2.78	1.36	3.12	1.45	1.62
Max. back pressure	Pa	90	47	75	30	40
Min. ambient temperature	°C	-40	-40	-40	-40	-40
Max. ambient temperature	°C	65	65	40	40	40
Starting current	A	6.2				

ml = max. load · me = max. efficiency · fa = running at free air · cs = customer specs · cu = customer unit  
Subject to alterations

**Data according to ErP directive**

Installation category	A	Overall efficiency $\eta_{es}$	Actual	Request 2013	Request 2015
Efficiency category	Static	Efficiency grade N	30.2	29.9	33.9
Variable speed drive	No	Power input $P_e$	36.3	36	40
Specific ratio*	1.00	kW	1.1		
		Air flow $q_v$	15975		
		Pressure increase $p_{fs}$	76		
		Speed n	660		
		min <sup>-1</sup>			

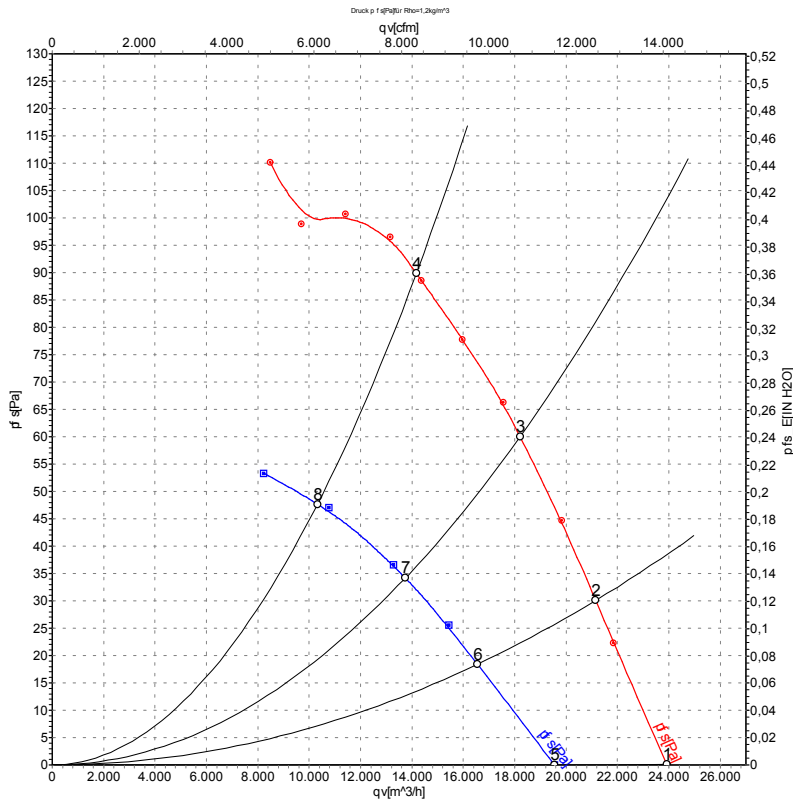
Data established at point of optimum efficiency



## Technical features

<b>Mass</b>	33.3 kg
<b>Size</b>	910 mm
<b>Surface of rotor</b>	Cast in aluminium
<b>Material of terminal box</b>	PP plastic
<b>Material of blades</b>	Aluminium sheet insert, sprayed with PP plastic
<b>Material of guard grille</b>	Steel, coated in black plastic (RAL9005)
<b>Number of blades</b>	5
<b>Blade angle</b>	0°
<b>Direction of air flow</b>	"V"
<b>Direction of rotation</b>	Clockwise, seen on rotor
<b>Type of protection</b>	IP 54
<b>Insulation class</b>	"F"
<b>Humidity class</b>	F3-1
<b>Max. permissible ambient motor temp. (transp./ storage)</b>	+ 80 °C
<b>Min. permissible ambient motor temp. (transp./storage)</b>	- 40 °C
<b>Mounting position</b>	Any
<b>Condensate discharge holes</b>	On rotor and stator sides
<b>Operation mode</b>	S1
<b>Motor bearing</b>	Ball bearing
<b>Touch current acc. IEC 60990 (measuring network Fig. 4, TN system)</b>	<= 3.5 mA
<b>Electrical leads</b>	Via terminal box
<b>Motor protection</b>	Thermal overload protector (TOP) brought out
<b>Cable exit</b>	Axial
<b>Protection class</b>	I (if protective earth is connected by customer)
<b>Product conforming to standard</b>	EN 61800-5-1; EN 60034; CE
<b>Approval</b>	VDE

## Charts: Air flow 50 Hz



Measurement: LU-117443  
Measurement: LU-117777

Air performance measured as per ISO 5801 Installation category A. For detailed information on the measuring set-up, please contact ebm-papst. Suction-side noise levels: LwA measured as per ISO 13347 / LpA measured with 1m distance to fan axis. The values given are valid under the measuring conditions mentioned above and may vary according to the actual installation situation. With any deviation from the standard set-up, the specific values have to be checked and reviewed with the unit installed.

## Measured values

	Conn.	U	f	n	P <sub>e</sub>	I	LpA <sub>in</sub>	LwA <sub>in</sub>	LwA <sub>out</sub>	qv	p <sub>fs</sub>
		V	Hz	min <sup>-1</sup>	W	A	dB(A)	dB(A)	dB(A)	m <sup>3</sup> /h	Pa
1	Δ	400	50	690	840	2.46	62	70	70	23920	0
2	Δ	400	50	675	950	2.57	61	68	67	21150	30
3	Δ	400	50	665	1046	2.67	60	67	66	18210	60
4	Δ	400	50	650	1150	2.78	63	70	69	14170	90
5	Y	400	50	565	555	1.18	57	64	64	19550	0
6	Y	400	50	530	590	1.24	55	61	61	16550	19
7	Y	400	50	500	620	1.31	53	59	59	13740	34
8	Y	400	50	475	640	1.36	56	63	62	10320	47

Conn. = Connection · U = Supply voltage · f = Frequency · n = Speed · P<sub>e</sub> = Power input · I = Current draw · LpA<sub>in</sub> = Sound pressure level inlet side · LwA<sub>in</sub> = Sound power level inlet side  
LwA<sub>out</sub> = Sound power level outlet side · qv = Air flow · p<sub>fs</sub> = Pressure increase

