

R4D400-CO01-01

AC centrifugal fan

forward curved, single inlet

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General partner: Elektrobau Mulfingen GmbH · Headquarters Mulfingen

County court Stuttgart · HRB 590142



Nominal data

Type	R4D400-CO01-01		
Motor	M4D138-NA		
Phase		3~	3~
Nominal voltage	VAC	230	400
Connection		Δ	Y
Frequency	Hz	50	50
Type of data definition		ml	ml
Valid for approval / standard		CE	CE
Speed	min ⁻¹	1210	1210
Power input	W	4920	4920
Current draw	A	14.7	8.5
Min. back pressure	Pa	500	500
Max. ambient temperature	°C	35	35

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
Efficiency category	Static
Variable speed drive integrated	No
Specific ratio*	1,01

* Specific ratio = $1 + p_b / 100\,000\text{ Pa}$

	Actual	Request 2013	Request 2015
Overall efficiency η_{es}	43,1	33,2	40,2
Efficiency grade N	46,9	37	44
Power input P_e	kW	2,5	
Air flow q_v	m ³ /h	4025	
Pressure increase p_{fs}	Pa	966	
Speed n	min ⁻¹	1375	

Data established at point of optimum efficiency



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Technical features

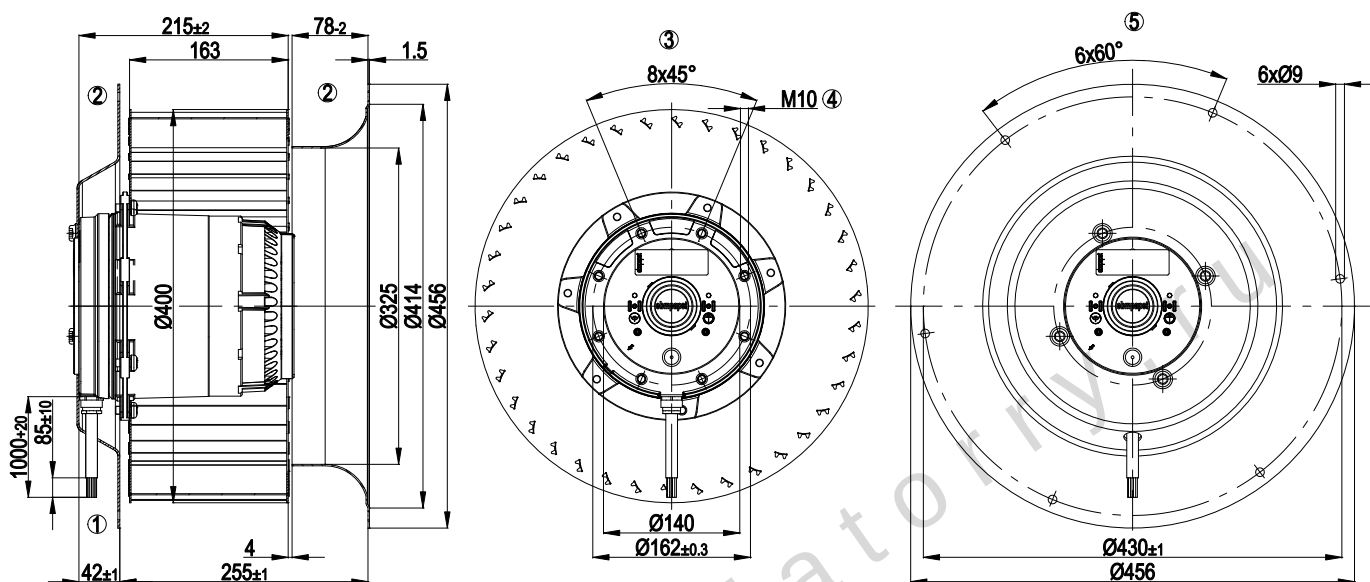
Mass	28 kg
Size	400 mm
Surface of rotor	Cast in aluminium
Material of impeller	Sheet steel, hot-dip galvanised
Direction of rotation	Clockwise, seen on rotor
Type of protection	IP 20
Insulation class	"F"
Humidity class	F3-1
Max. permissible ambient motor temp. (transp./ storage)	+80 °C
Min. permissible ambient motor temp. (transp./storage)	-40 °C
Mounting position	Shaft horizontal or rotor on bottom; rotor on top on request
Condensate discharge holes	Rotor-side
Operation mode	S1
Motor bearing	Ball bearing
Leakage current	<= 3.5 mA
Motor protection	Thermal overload protector (TOP) brought out
Cable exit	Lateral
Protection class	I (if protective earth is connected by customer)
Product conforming to standard	EN 61800-5-1; CE
Approval	VDE

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Product drawing



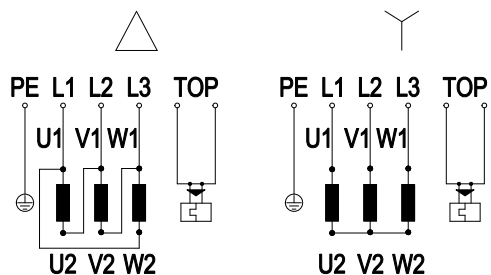
1	Connection line halogen-free, 9 x crimped core-end sleeves
2	Accessory part: Inlet nozzle 40010-2-4013 and flange 38400-2-4017 not included in the standard scope of delivery
3	View without flange
4	Depth of screw max. 18 mm
5	View with flange

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Connection screen



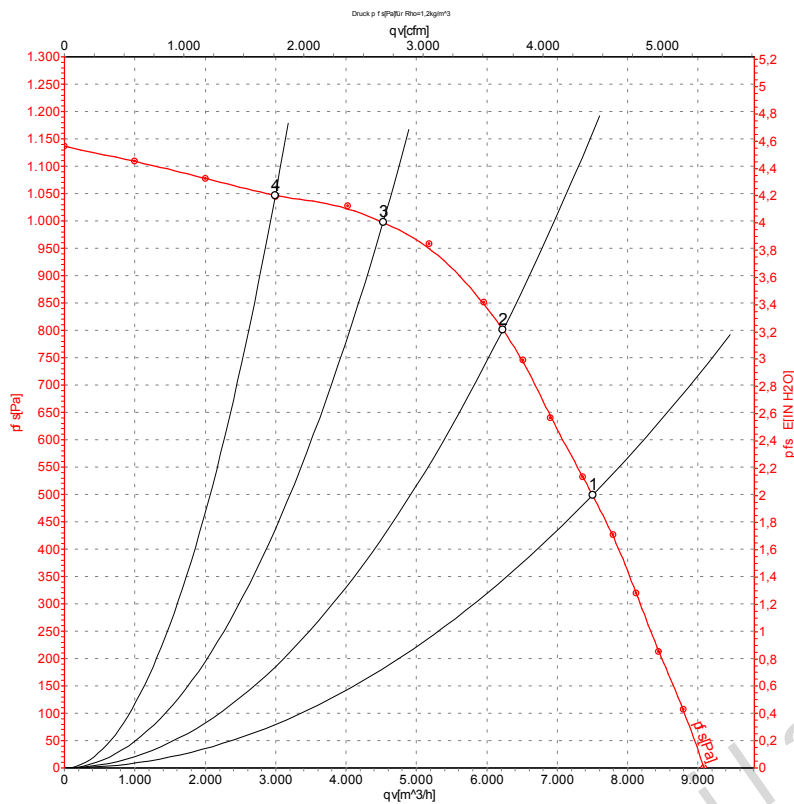
Δ	Delta connection	Y	Star connection	L1	black
L2	blue	L3	brown	U1	black
V1	blue	W1	brown	U2	green
V2	white	W2	yellow	TOP	2xgrey
PE	green/yellow				

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Charts: Air flow 50 Hz Y



Measurement: LU-75023

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 _e	I	qv	p _{fs}
		V	Hz	min ⁻¹	W	A	m ³ /h	Pa
1	Y	400	50	1210	4920	8.50	7500	500
2	Y	400	50	1285	3925	6.83	6230	800
3	Y	400	50	1360	2804	5.05	4525	1000
4	Y	400	50	1410	1949	3.83	2995	1050