R4D560-AQ01-05

AC centrifugal fan

backward curved, single inlet

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County court Stuttgart · HRA 590344

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County court Stuttgart · HRB 590142

Nominal data

Type	**R4D560-AQ01-05**
Motor	**M4D138-LA**

Phase		3~	3~
Nominal voltage	VAC	400	400
Connection		**Δ**	Y
Frequency	Hz	50	50
Type of data definition		ml	ml
Valid for approval / standard		CE	CE
Speed	min^{-1}	1350	1070
Power input	W	2410	1640
Current draw	A	4.7	2.84
Min. back pressure	Pa	0	0
Max. ambient temperature	°C	60	60

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

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Technical features

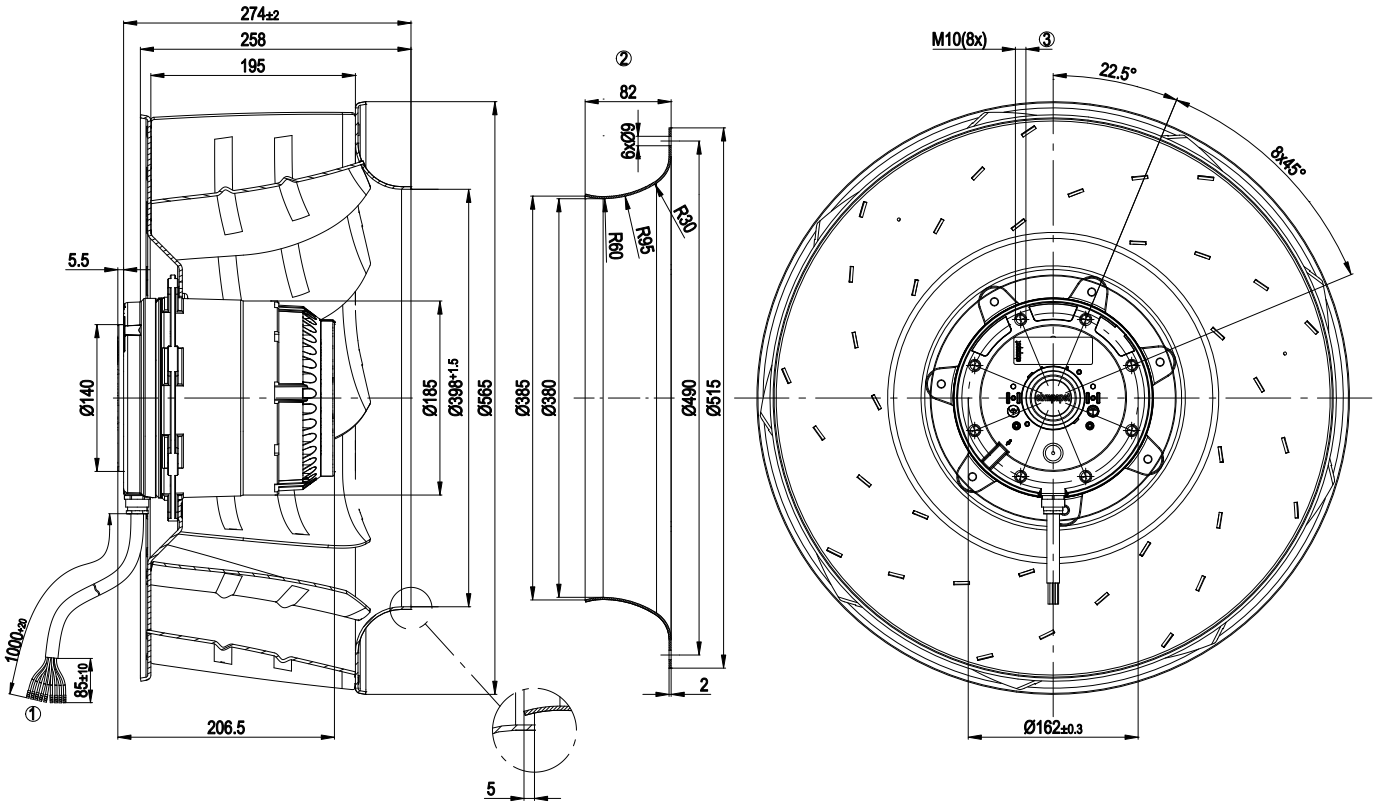
Mass	27 kg
Size	560 mm
Surface of rotor	Cast in aluminium
Material of impeller	Aluminium sheet
Number of blades	9
Direction of rotation	Clockwise, seen on rotor
Type of protection	IP 54; Position-dependent
Insulation class	"F"
Humidity class	F3-1
Max. permissible ambient motor temp. (transp./ storage)	+ 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; EN 60034; CE
Approval	VDE

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Product drawing



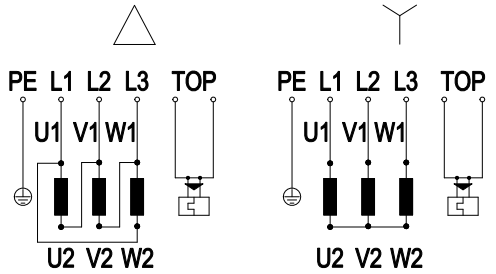
1	Connection line silicone- and halogen-free 9 x 0.75 mm², 9x brass lead tips crimped
2	Accessory part: Inlet nozzle 63071-2-4013, not included in the standard scope of delivery. Other inlet nozzles on request.
3	Depth of screw max. 18 mm

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Connection screen



Note: Direction of rotation changes when two phases are reversed

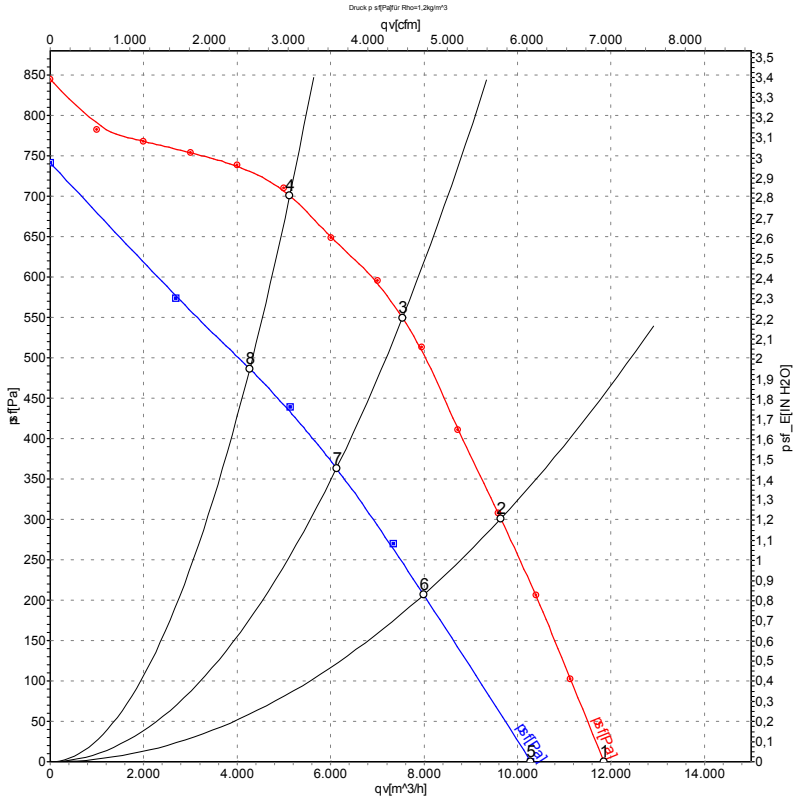
Δ	Delta connection	Y	Star connection	L1	black
L2	blue	L3	brown	U1	black
V1	blue	W1	brown	U2	green
V2	white	W2	yellow	TOP	2xgrey
PE	green/yellow				

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Charts: Air flow 50 Hz



Measurement: LU-102189
Measurement: LU-123360

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	LpA_{in}	LwA_{in}	qv	p_{sf}
		V	Hz	min^{-1}	W	A	dB(A)	dB(A)	m^3/h	Pa
1	Δ	400	50	1400	1796	3.74	78	86	11850	0
2	Δ	400	50	1365	2233	4.27	75	82	9640	300
3	Δ	400	50	1350	2410	4.70	72	80	7535	550
4	Δ	400	50	1360	2230	4.26	73	80	5125	700
5	Y	400	50	1195	1334	2.27	74	81	10280	0
6	Y	400	50	1120	1531	2.62	69	77	7990	210
7	Y	400	50	1095	1595	2.74	67	75	6125	363
8	Y	400	50	1130	1519	2.61	68	76	4270	487

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