R6D560-AH05-01

AC centrifugal fan

backward curved, single inlet

ebm-papst Mulfingen GmbH & Co. KG
Bachmühle 2
D-74673 Mulfingen
Phone +49 7938 81-0
Fax +49 7938 81-110
info1@de.ebmpapst.com
www.ebmpapst.com

Nominal data

Type	**R6D560-AH05-01**		
Motor	**M6D110-IA**		
Phase		3~	3~
Nominal voltage	VAC	230	400
Connection		**D**	Y
Frequency	Hz	50	50
Type of data definition		ml	ml
Valid for approval / standard		CE	CE
Speed	min^{-1}	890	890
Power input	W	780	780
Current draw	A	2.9	1.68
Min. back pressure	Pa	0	0
Max. ambient temperature	°C	60	60

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

AC centrifugal fan

backward curved, single inlet

Technical features

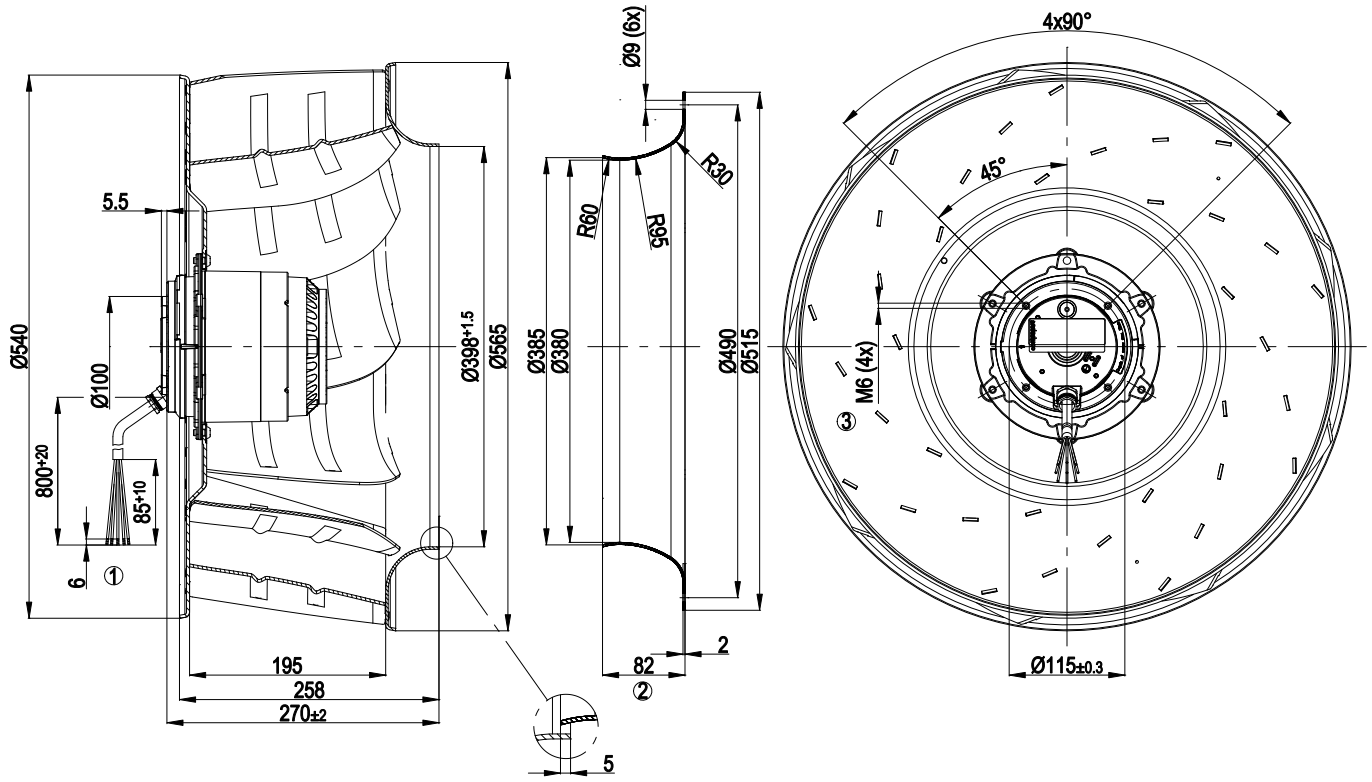
Leakage current	<= 3.5 mA
Size	560 mm
Operation mode	S1
Direction of rotation	Clockwise, seen on rotor
Mounting position	Shaft horizontal or rotor on bottom; rotor on top on request
Humidity class	F3-1
Insulation class	"F"
Condensate discharge holes	Rotor-side
Motor bearing	Ball bearing
Mass	16.5 kg
Material of impeller	Aluminium sheet
Motor protection	Thermal overload protector (TOP) brought out
Product conforming to standard	CE; EN 61800-5-1
Surface of rotor	Cast in aluminium
Number of blades	9
Type of protection	IP 54
Protection class	I
Max. permissible ambient motor temp. (transp./ storage)	+80 °C
Min. permissible ambient motor temp. (transp./storage)	-40 °C
Approval	CCC; CSA C22.2 Nr.100; GOST; UL 1004-1; VDE

ebm-papst Mulfingen GmbH & Co. KG · Bachmühle 2 · D-74673 Mulfingen · Phone +49 7938 81-0 · Fax +49 7938 81-110 · info1@de.ebmpapst.com · www.ebmpapst.com

AC centrifugal fan

backward curved, single inlet

Product drawing



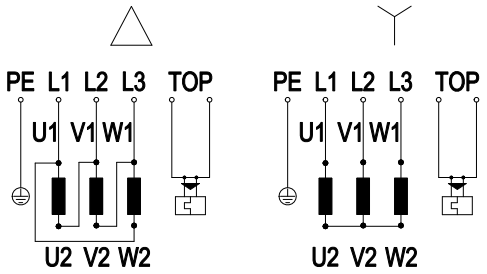
1	Connection line silicone 9 x 0.75 mm², 9 x brass lead tips crimped
2	Accessory part: Inlet nozzle 63071-2-4013, 64001-2-4013, 64030-2-4013 not included in the standard scope of delivery
3	Depth of screw max. 12 mm

ebm-papst Mulfingen GmbH & Co. KG · Bachmühle 2 · D-74673 Mulfingen · Phone +49 7938 81-0 · Fax +49 7938 81-110 · info1@de.ebmpapst.com · www.ebmpapst.com

AC centrifugal fan

backward curved, single inlet

Connection screen



Note: Direction of rotation changes when two phases are reversed

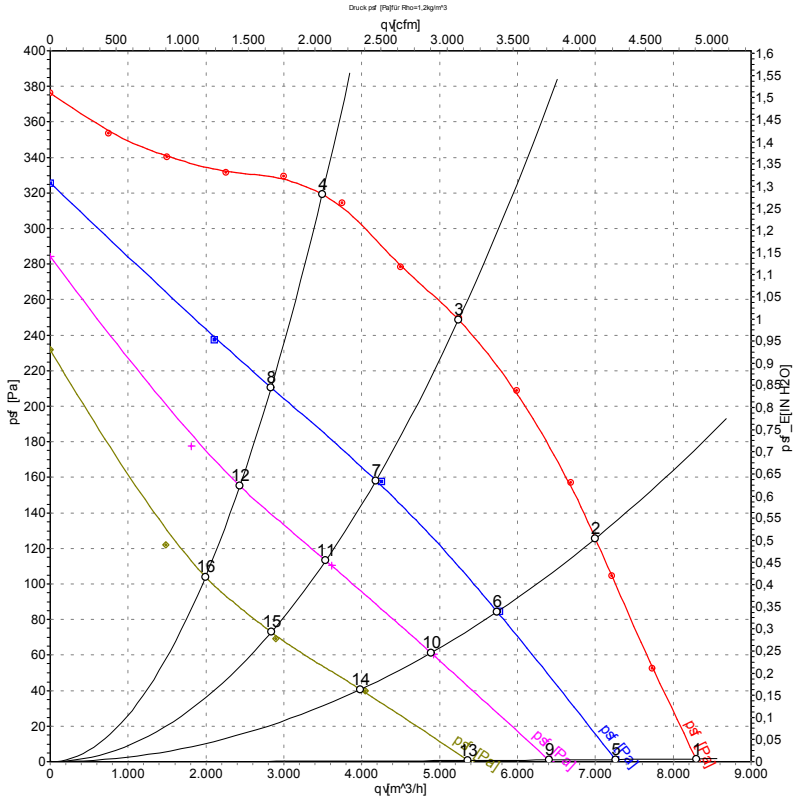
Δ	Delta connection	Y	Star connection	L1	black
L2	blue	L3	brown	U1	black
V1	blue	W1	brown	U2	green
V2	white	W2	yellow	TOP	2xgrey
PE	green/yellow				

ebm-papst Mulfingen GmbH & Co. KG · Bachmühle 2 · D-74673 Mulfingen · Phone +49 7938 81-0 · Fax +49 7938 81-110 · info1@de.ebmpapst.com · www.ebmpapst.com

AC centrifugal fan

backward curved, single inlet

Charts: Air flow 50 Hz



Measurement: LU-104086
Measurement: LU-105563
Measurement: LU-105564
Measurement: LU-105550

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}	LwA_{out}	qv	p_{sf}
		V	Hz	min^{-1}	W	A	dB(A)	dB(A)	dB(A)	m^3/h	Pa
1	Y	400	50	930	557	1.46	68	75	80	8310	0
2	Y	400	50	905	699	1.59	63	71	76	7000	125
3	Y	400	50	890	780	1.68	61	69	74	5240	250
4	Y	400	50	900	718	1.59	62	69	75	3495	320
5	Y	230	50	805	404	1.29	63	71	75	7255	0
6	Y	230	50	735	475	1.48	57	65	71	5740	86
7	Y	230	50	705	507	1.58	54	63	68	4180	160
8	Y	230	50	745	462	1.45	57	66	71	2835	210
9	Y	180	50	705	319	1.29	60	67	72	6405	0
10	Y	180	50	620	352	1.42	52	60	66	4890	62
11	Y	180	50	590	365	1.47	50	58	64	3535	113
12	Y	180	50	635	345	1.39	53	61	67	2435	154
13	Y	140	50	585	227	1.19	53	61	67	5365	0
14	Y	140	50	500	238	1.25	46	55	61	3985	41
15	Y	140	50	470	243	1.29	44	53	58	2840	71
16	Y	140	50	515	237	1.24	47	55	61	1995	103

ebm-papst Mulfingen GmbH & Co. KG · Bachmühle 2 · D-74673 Mulfingen · Phone +49 7938 81-0 · Fax +49 7938 81-110 · info1@de.ebmpapst.com · www.ebmpapst.com