R6D560-AH05-05

AC centrifugal fan

backward-curved, single-intake

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Nominal data

Type	**R6D560-AH05-05**
Motor	**M6D110-IA**

Phase		3~	3~	3~
Nominal voltage	VAC	230	400	415
Wiring		Δ	Y	Y
Frequency	Hz	50	50	50
Method of obtaining data		ml	ml	ml
Valid for approval/standard		-	-	-
Speed (rpm)	min^{-1}	890	890	900
Power consumption	W	780	780	800
Current draw	A	2.9	1.68	1.72
Min. back pressure	Pa	0	0	0
Min. back pressure	inH2O	0	0	0
Min. ambient temperature	°C	-40	-40	-40
Max. ambient temperature	°C	60	60	55
Starting current	A	9.4	5.4	5.1

ml = Max. load · me = Max. efficiency · fa = Free air · cs = Customer specification · ce = Customer equipment
Subject to change

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Technical description

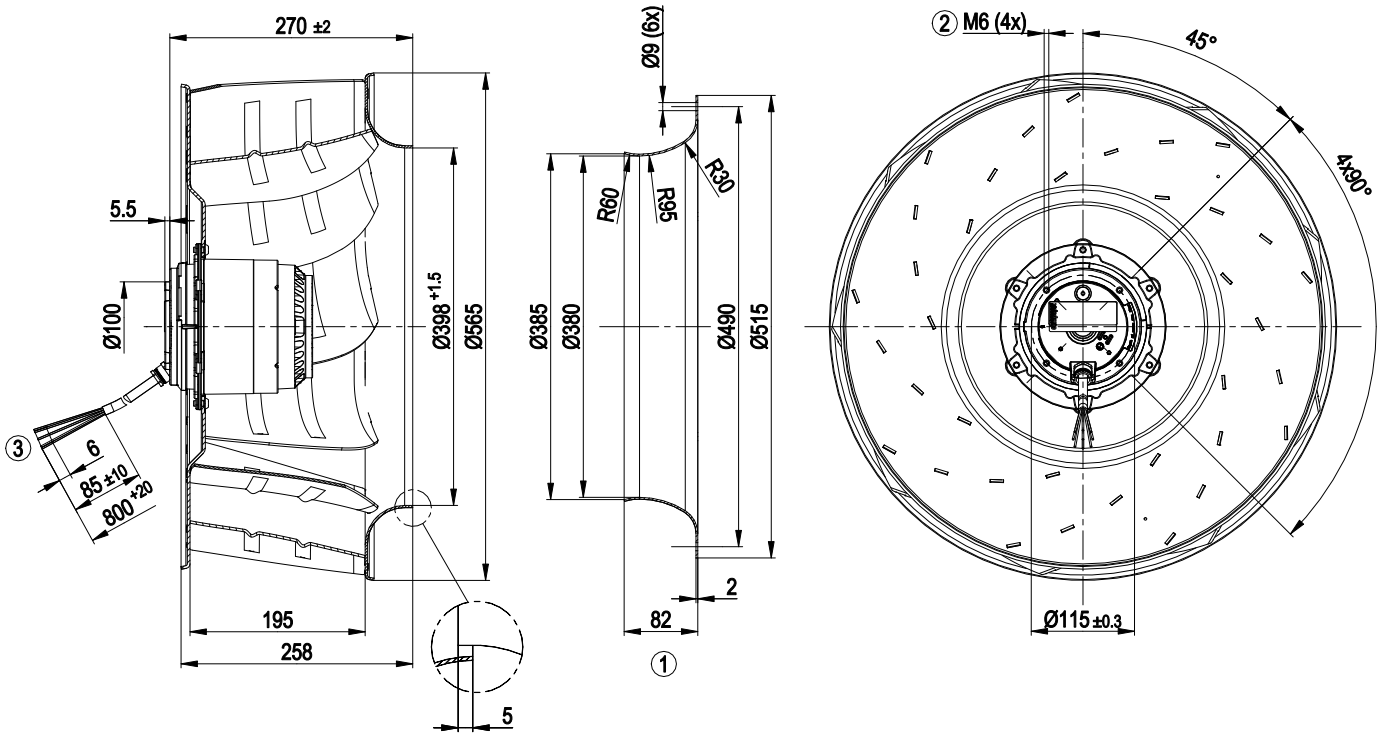
Weight	16.5 kg
Fan size	560 mm
Rotor surface	Cast in aluminum
Impeller material	Sheet aluminum
Number of blades	9
Direction of rotation	Clockwise, viewed toward rotor
Degree of protection	IP54
Insulation class	"F"
Moisture (F) / Environmental (H) protection class	F3-1
Max. permitted ambient temp. for motor (transport/storage)	+80 °C
Min. permitted ambient temp. for motor (transport/storage)	-40 °C
Installation position	Any
Condensation drainage holes	None
Mode	S1
Motor bearing	Ball bearing
Touch current according to IEC 60990 (measuring circuit Fig. 4, TN system)	<= 3.5 mA
Motor protection	Thermal overload protector (TOP) with basic insulation
Protection class	I (with customer connection of protective earth)
Conformity with standards	EN 61800-5-1
Approval	CCC; CSA C22.2 No. 100; EAC; UL 1004-1; VDE

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Product drawing



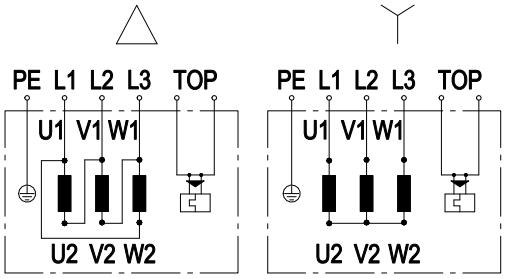
1	Accessory part: inlet ring 63071-2-4013 not included in scope of delivery
2	Max. clearance for screw 12 mm
3	Cable silicone 9G 0.75 mm², 9x crimped splices

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Connection diagram



Note: Change of rotation direction by reversing two phases

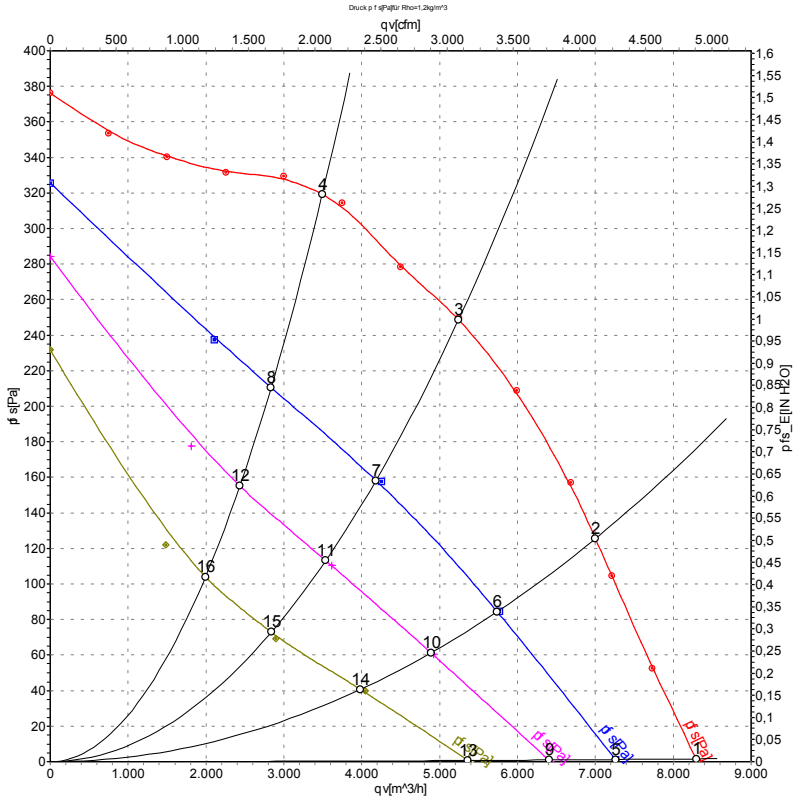
Δ	Delta connection	Y	Star connection	L1	black
L2	blue	L3	brown	U1	black
V1	blue	W1	brown	U2	green
V2	white	W2	yellow	TOP	2x gray
PE	green/yellow				

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Curves: Air performance 50 Hz



Measurement: LU-104086-1
Measurement: LU-105563-1
Measurement: LU-105564-1
Measurement: LU-105550-1

Air performance measured according to ISO 5801 installation category A. For detailed information on the measurement setup, contact ebm-papst. Intake sound level: Sound power level according to ISO 13347 / sound pressure level measured at 1 m distance from fan axis. The values given are valid under the specified measuring conditions and may vary due to conditions of installation. For deviations from the standard configuration, the parameters have to be checked on the installed unit.

Measured values

	Wired	U	f	n	P_e	I	LpA_{in}	LwA_{in}	LwA_{out}	qv	p_{fs}	qv	p_{fs}
		V	Hz	min^{-1}	W	A	dB(A)	dB(A)	dB(A)	m^3/h	Pa	CFM	inH2O
1	Y	400	50	930	557	1.46	68	75	80	8310	0	4890	0.00
2	Y	400	50	905	699	1.59	63	71	76	7000	125	4120	0.50
3	Y	400	50	890	780	1.68	61	69	74	5240	250	3085	1.00
4	Y	400	50	900	718	1.59	62	69	75	3495	320	2055	1.28
5	Y	230	50	805	404	1.29	63	71	75	7255	0	4270	0.00
6	Y	230	50	735	475	1.48	57	65	71	5740	86	3380	0.35
7	Y	230	50	705	507	1.58	54	63	68	4180	160	2460	0.64
8	Y	230	50	745	462	1.45	57	66	71	2835	210	1670	0.84
9	Y	180	50	705	319	1.29	60	67	72	6405	0	3770	0.00
10	Y	180	50	620	352	1.42	52	60	66	4890	62	2880	0.25
11	Y	180	50	590	365	1.47	50	58	64	3535	113	2080	0.45
12	Y	180	50	635	345	1.39	53	61	67	2435	154	1435	0.62
13	Y	140	50	585	227	1.19	53	61	67	5365	0	3155	0.00
14	Y	140	50	500	238	1.25	46	55	61	3985	41	2345	0.16
15	Y	140	50	470	243	1.29	44	53	58	2840	71	1670	0.29
16	Y	140	50	515	237	1.24	47	55	61	1995	103	1175	0.41

Wired = Wiring · U = Power supply · f = Frequency · n = Speed (rpm) · P_e = Power consumption · I = Current draw · LpA_{in} = Sound pressure level intake side · LwA_{in} = Sound power level intake side LwA_{out} = Sound power level outlet side · qv = Air flow · p_{fs} = Pressure increase

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