AC centrifugal module

backward curved, single inlet

with support plate

K4D560-AQ03-01 ebmpapst Datasheet
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County court Stuttgart · HRA 590344

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Nominal data

Type	**K4D560-AQ03-01**
Motor	**M4D138-LA**

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		-	-
Speed	min^{-1}	1365	1365
Power input	W	2380	2380
Current draw	A	8.65	5.0
Min. back pressure	Pa	0	0
Min. ambient temperature	°C	-40	-40
Max. ambient temperature	°C	60	60
Starting current	A	47	27

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	51.6 kg
Size	560 mm
Surface of rotor	Cast in aluminium
Material of impeller	Aluminium sheet
Material of mounting plate	Sheet steel, galvanised
Material of distancing profiles	Aluminium
Material of inlet nozzle	Sheet steel, galvanised
Number of blades	9
Direction of rotation	Clockwise, seen on rotor
Type of protection	IP 54
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	Any
Condensate discharge holes	On rotor and stator sides
Operation mode	S1
Motor bearing	Ball bearing
Touch current acc. IEC 60990 (measuring network Fig. 4, TN system)	<= 3.5 mA
Motor protection	Thermal overload protector (TOP) brought out
Cable exit	Axial
Protection class	I (if protective earth is connected by customer)
Product conforming to standard	EN 61800-5-1; EN 60034
Approval	VDE

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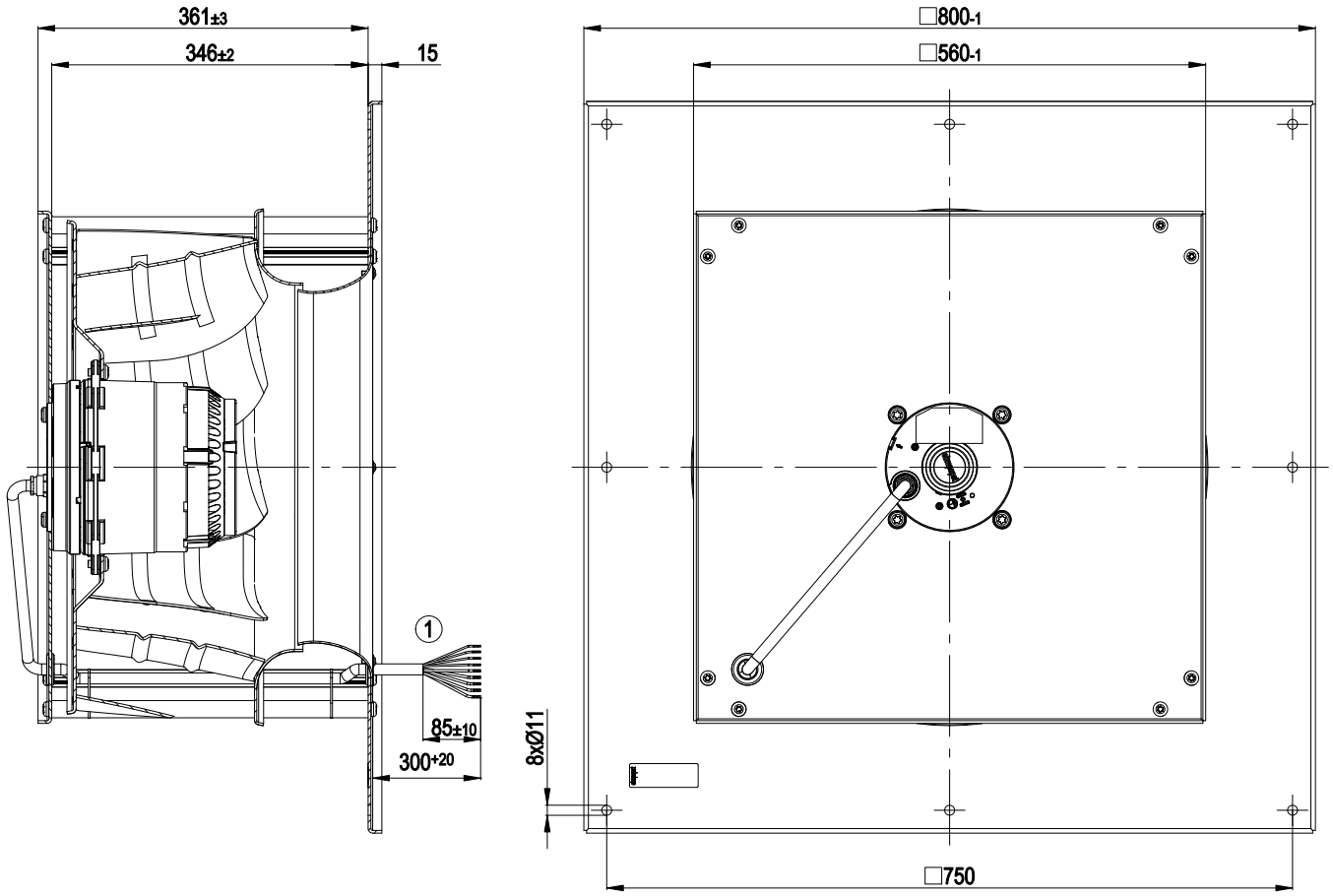
Product drawing



1	Connection line halogen-free, 9 x 0.75 mm², 9 x brass lead tips crimped

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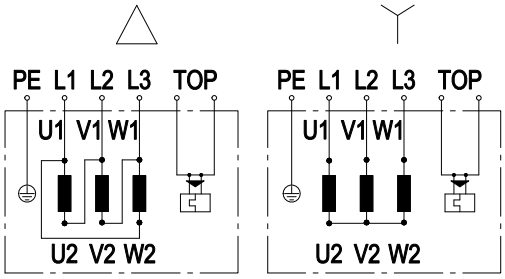
Connection screen



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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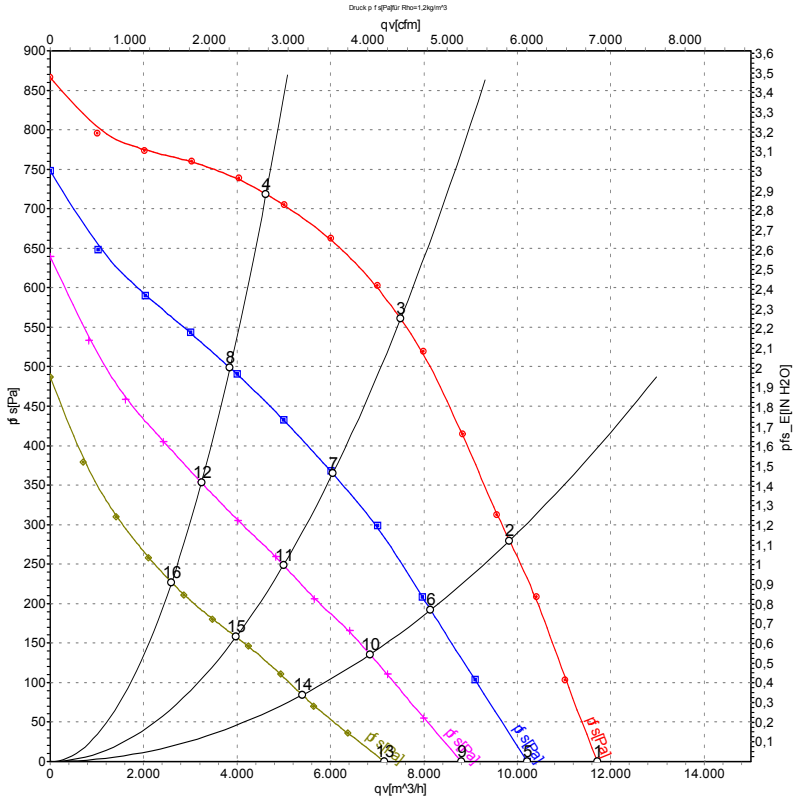
Charts: Air flow 50 Hz Y



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	1410	1724	4.22	11700	0
2	Y	400	50	1380	2151	4.82	9830	280
3	Y	400	50	1365	2380	5.00	7500	560
4	Y	400	50	1385	2062	4.69	4620	720
5	Y	230	50	1220	1326	4.15	10210	0
6	Y	230	50	1140	1537	4.81	8145	192
7	Y	230	50	1095	1640	5.12	6050	365
8	Y	230	50	1150	1489	4.66	3850	499
9	Y	180	50	1050	1037	4.21	8805	0
10	Y	180	50	955	1136	4.69	6845	136
11	Y	180	50	910	1184	4.88	4995	249
12	Y	180	50	970	1112	4.57	3240	353
13	Y	140	50	855	724	3.94	7150	0
14	Y	140	50	765	768	4.22	5395	84
15	Y	140	50	725	784	4.32	3980	158
16	Y	140	50	780	756	4.15	2595	227

Conn. = Connection · U = Supply voltage · f = Frequency · n = Speed · P_e = Power input · I = Current draw · qv = Air flow · p_{fs} = Pressure increase