

AC axial fan - HyBlade

sickled blades (S series)
with guard grille for full nozzle

S8D710-BQ01-03 ebmpapst Datasheet
sales@fansco.com
www.fansco.com

Nominal data

Type	S8D710-BQ01-03				
Motor	M8D110-IA				
Phase		3~	3~	3~	3~
Nominal voltage	VAC	230	277	400	480
Connection		Δ	Δ	Y	Y
Frequency	Hz	60	60	60	60
Type of data definition		ml	ml	ml	ml
Valid for approval / standard		CE	CE	CE	CE
Speed (rpm)	min ⁻¹	740	790	740	790
Power input	W	520	600	520	600
Current draw	A	1.89	2.01	1.09	1.16
Max. back pressure	Pa	55	60	55	60
Min. ambient temperature	°C	-40	-40	-40	-40
Max. ambient temperature	°C	60	60	60	60

ml = Max. load · me = Max. efficiency · fa = Running at free air · cs = Customer specs · cu = Customer unit
Subject to alterations



AC axial fan - HyBlade

sickled blades (S series)

with guard grille for full nozzle

Technical features

Mass	16 kg
Size	710 mm
Surface of rotor	Cast in aluminium
Material of terminal box	PP plastic
Material of blades	Aluminium sheet insert, sprayed with PP plastic
Material of guard grille	Steel, coated in black plastic (RAL9005)
Number of blades	5
Blade angle	-5°
Direction of air flow	"V"
Direction of rotation	Counter-clockwise, seen on rotor
Type of protection	IP 54
Insulation class	"F"
Humidity (F)/environmental protection class (H)	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
Touch current acc. IEC 60990 (measuring network Fig. 4, TN system)	<= 3.5 mA
Electrical leads	Via terminal box
Motor protection	Thermal overload protector (TOP) brought out, basic insulation
Protection class	I (if protective earth is connected by customer)
Product conforming to standard	EN 61800-5-1; CE
Approval	UL 1004-1; CSA C22.2 No.100; VDE; EAC

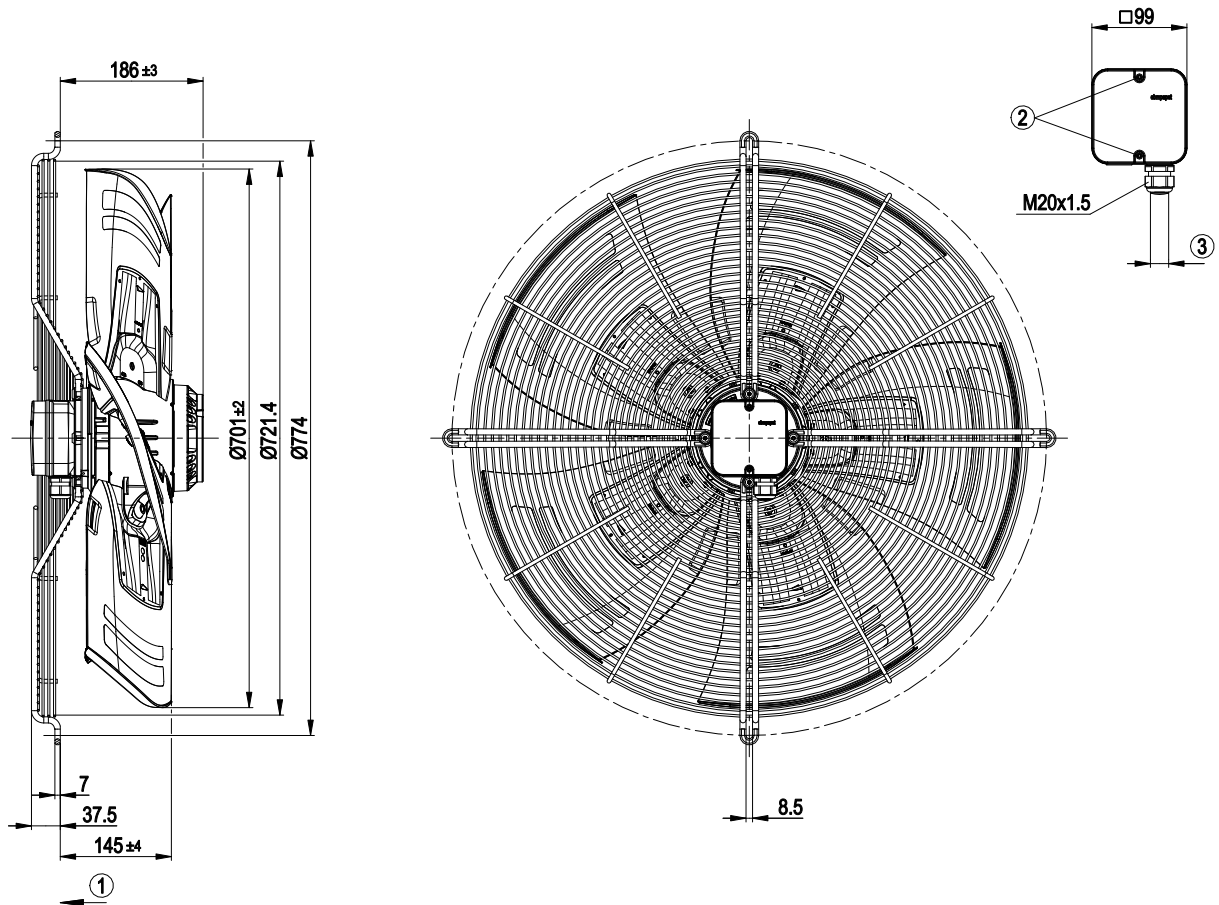


AC axial fan - HyBlade

sickled blades (S series)

with guard grille for full nozzle

Product drawing

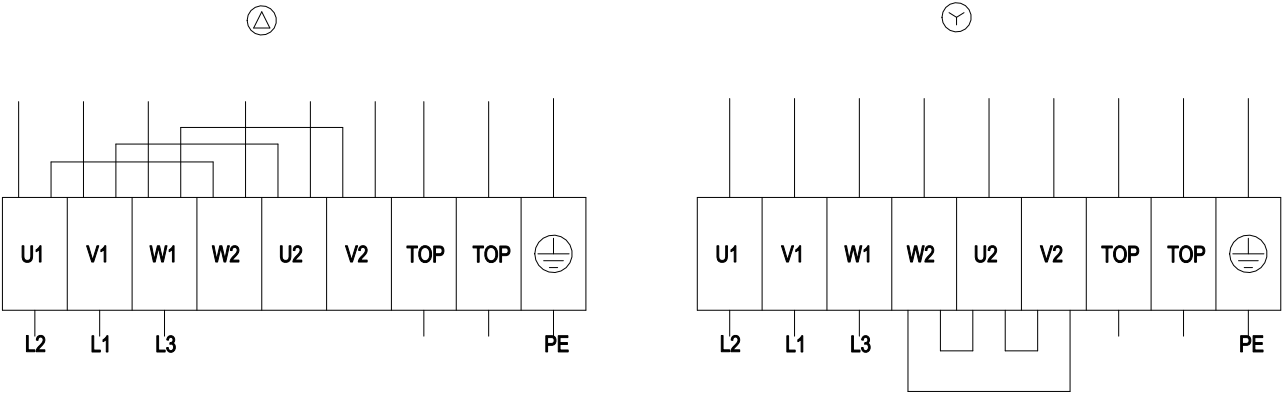


1	Direction of air flow "V"
2	Tightening torque 1.5 ± 0.2 Nm
3	Cable diameter min. 6 mm, max. 12 mm, tightening torque 2 ± 0.3 Nm

AC axial fan - HyBlade

sickled blades (S series)
with guard grille for full nozzle

Connection screen



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

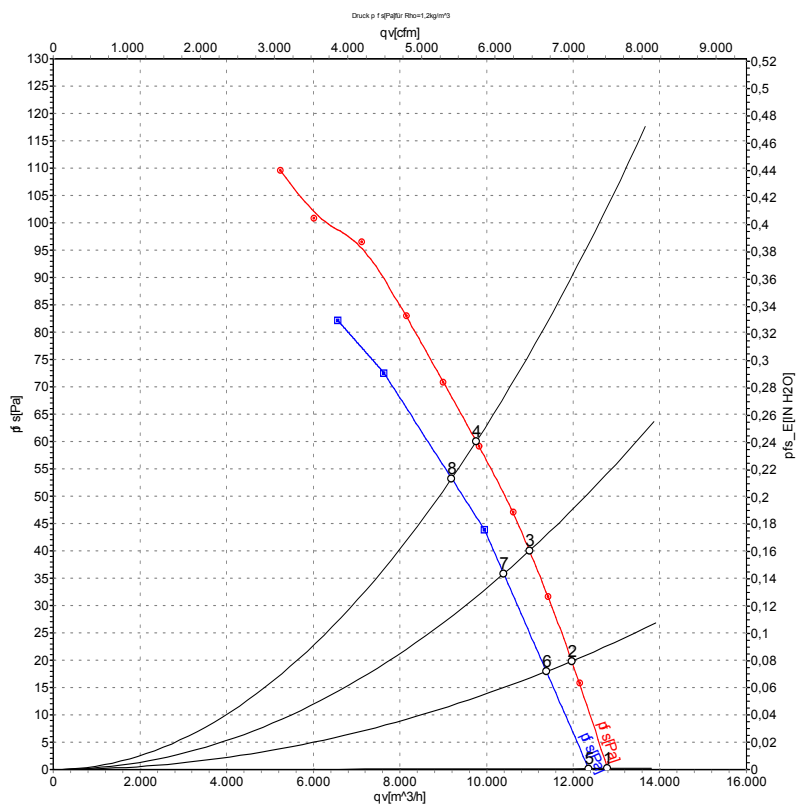


AC axial fan - HyBlade

sickled blades (S series)

with guard grille for full nozzle

Charts: Air flow 60 Hz



Measurement: LU-111657-1
Measurement: LU-111954-1

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: L_{wA} measured as per ISO 13347 / L_{pA} 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}	q _v	p _{fs}	q _v	p _{fs}
		V	Hz	min ⁻¹	W	A	dB(A)	dB(A)	dB(A)	m³/h	Pa	cfm	inH ₂ O
1	Y	480	60	835	430	1.05	64	70	69	12800	0	7535	0.00
2	Y	480	60	825	480	1.08	62	68	67	11970	20	7045	0.08
3	Y	480	60	810	530	1.12	60	66	65	10990	40	6470	0.16
4	Y	480	60	790	600	1.16	58	65	64	9765	60	5745	0.24
5	Y	400	60	805	375	0.91	63	69	68	12430	0	7315	0.00
6	Y	400	60	785	420	0.96	61	67	66	11380	18	6700	0.07
7	Y	400	60	765	465	1.01	58	65	64	10400	36	6120	0.14
8	Y	400	60	740	520	1.09	57	64	63	9195	53	5415	0.21

Conn. = Connection · U = Supply voltage · f = Frequency · n = Speed (rpm) · P_e = Power input · I = Current draw · LpA_{in} = Sound pressure level inlet side · LwA_{in} = Sound power level inlet side
LwA_{out} = Sound power level outlet side · q_v = Air flow · p_{fs} = Pressure increase

