8322000017
VUR0800H7SQZ

AC axial fan - HyBlade

sickle-shaped blades (S series)

with guard grille for short nozzle

ebm-papst Ventilator (Xi'an) Co.,Ltd.
No.2555, No.5 Weishui Road, Weibei Industry Park, Lintong District, Xi'an, China, 710605
Tel: +86(0)29-83166100
www.ebmpapst.com

Nominal data

Type	**8322000017**
Motor	**M6D138-LA**

Phase		3~	3~	3~	3~	3~	3~
Nominal voltage	VAC	230	230	277	400	400	480
Wiring		Δ	Δ	Δ	Y	Y	Y
Frequency	Hz	50	60	60	50	60	60
Method of obtaining data		fa	fa	fa	fa	fa	fa
Speed (rpm)	min^{-1}	940	1070	1110	940	1070	1110
Power consumption	W	1050	1570	1710	1050	1570	1710
Current draw	A	5	5.5	5.7	2.9	3.2	3.3
Max. back pressure	Pa	145	135	150	145	135	150
Max. back pressure	in. wg	0.58	0.54	0.6	0.58	0.54	0.6
Min. ambient temperature	°C	-40	-40	-40	-40	-40	-40
Max. ambient temperature	°C	80	60	60	80	60	60
Starting current	A	22	17.5	24	13	10	14

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

8322000017
VUR0800H7SQZ

AC axial fan - HyBlade

sickle-shaped blades (S series)

with round full nozzle, Transformer fan

Technical description

Weight	45.4 kg
Size	800 mm
Motor size	138
Rotor surface	Painted black
Terminal box material	Die-cast aluminum, painted black
Blade material	Sheet aluminum insert (painted black), sprayed with PP plastic
Fan housing material	Sheet steel, galvanized and coated with white aluminum plastic (RAL 9006)
Guard grille material	Steel, coated with white-aluminum plastic (RAL 9006)
Number of blades	5
Blade pitch	-5°
Airflow direction	A
Direction of rotation	Clockwise, viewed toward rotor
Degree of protection	IP55
Insulation class	"F"
Moisture (F) / Environmental (H) protection class	H2+
Ambient temperature note	Occasional start-up at temperatures between -40°C and -25°C is permitted. For continuous operation at ambient temperatures below -25°C (such as refrigeration applications), use must be made of a fan design with special low-temperature bearings.
Max. permitted ambient temp. for motor (transport/storage)	+80 °C
Min. permitted ambient temp. for motor (transport/storage)	-40 °C
Installation position	Shaft horizontal or rotor on top; rotor on bottom on request
Condensation drainage holes	On stator side
Mode	S1
Motor bearing	Ball bearing
Touch current according to IEC 60990 (measuring circuit Fig. 4, TN system)	<= 3.5 mA
Electrical hookup	Terminal box
Motor protection	Thermal overload protector (TOP) with basic insulation
Protection class	I (with customer connection of protective earth)
Approval	CSA C22.2 No. 100; EAC; UL 1004-1

ebm-papst Ventilator (Xi'an) Co.,Ltd. • No.2555, No.5 Weishui Road, Weibei Industry Park, Lintong District, Xi'an, China, 710605 •Phone +86(0)29-83166100•www.ebmpapst.com

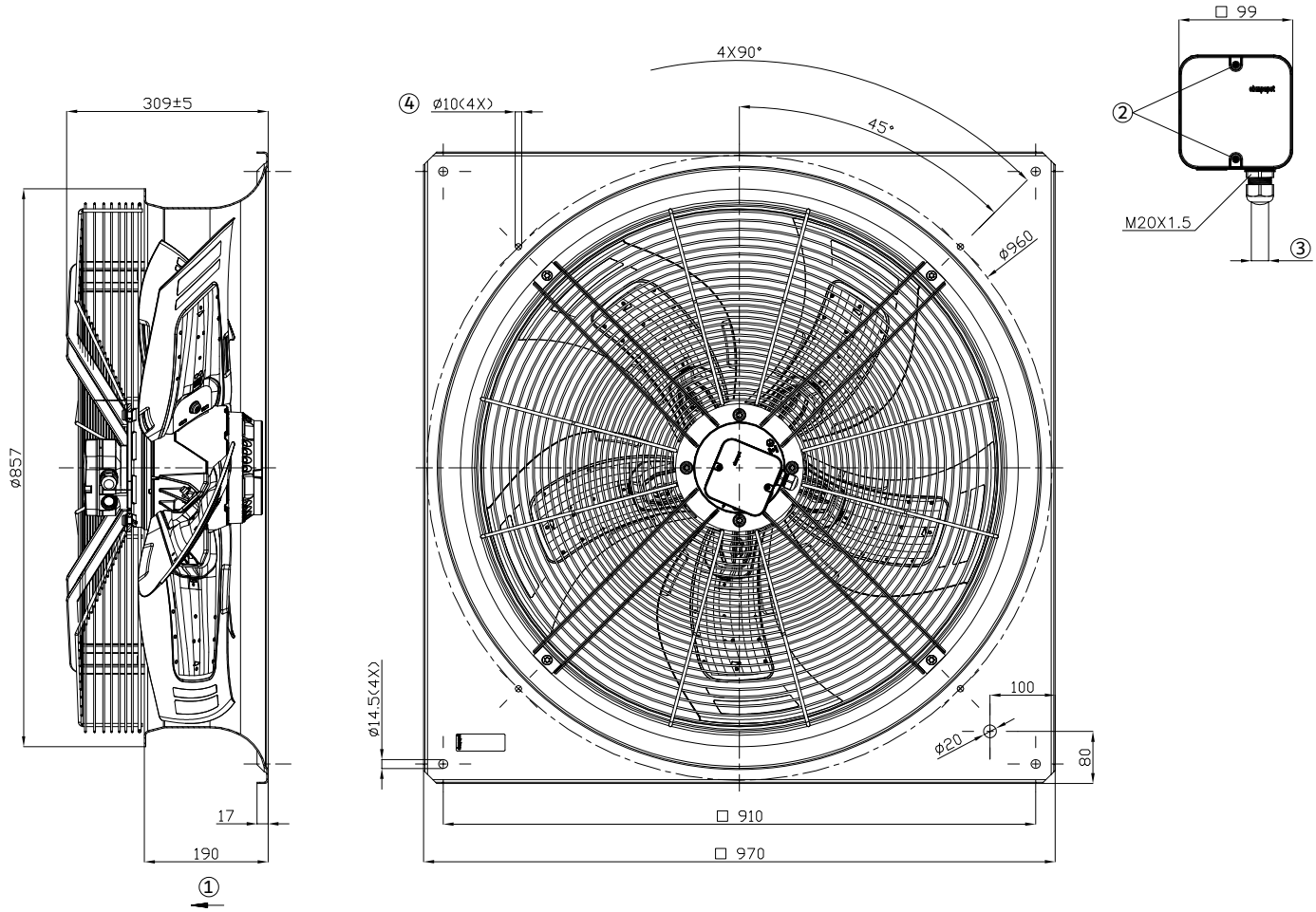
8322000017
VUR0800H7SQZ

AC axial fan - HyBlade

sickle-shaped blades (S series)

with round full nozzle, Transformer fan

Product drawing



1	Airflow direction "V"
2	Tightening torque 1.5 ± 0.2 Nm
3	Cable diameter min. 7 mm, max. 14 mm, tightening torque 2 ± 0.3 Nm
4	Attachment holes for FlowGrid (80000-2-2957 not included in scope of delivery)

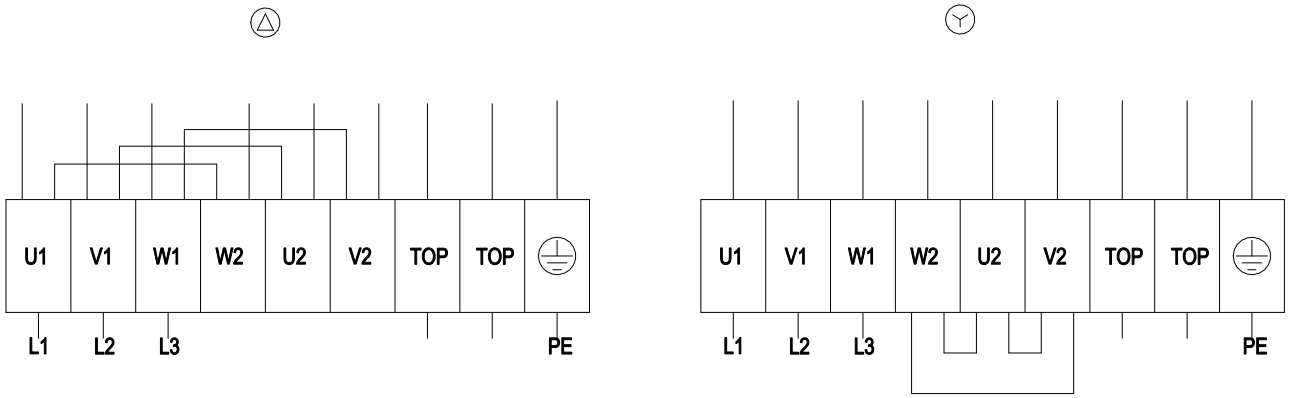
ebm-papst Ventilator (Xi'an) Co.,Ltd. • No.2555, No.5 Weishui Road, Weibei Industry Park, Lintong District, Xi'an, China, 710605 •Phone +86(0)29-83166100•www.ebmpapst.com

AC axial fan - HyBlade

sickle-shaped blades (S series)

with round full nozzle, Transformer fan

Connection diagram



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

ebm-papst Ventilator (Xi'an) Co.,Ltd. • No.2555, No.5 Weishui Road, Weibei Industry Park, Lintong District, Xi'an, China, 710605 •Phone +86(0)29-83166100•www.ebmpapst.com

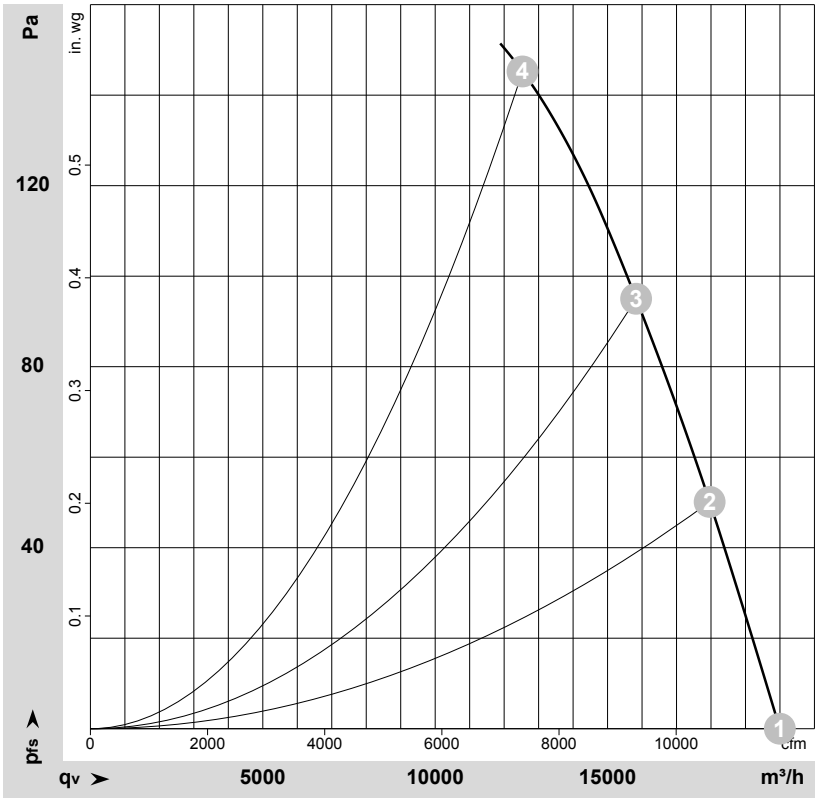
8322000017
VUR0800H7SQZ

AC axial fan - HyBlade

sickle-shaped blades (S series)

with round full nozzle, Transformer fan

Curves: Air performance 50 Hz



ρ = 1.15 kg/m³ ± 2 %

Measurement: LU-190253-1

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}	q_V	p_{fs}	q_V	p_{fs}
		V	Hz	min^{-1}	W	A	dB(A)	dB(A)	dB(A)	m^3/h	Pa	cfm	in. wg
1	Y	400	50	940	1050	2.90	72	78	77	19995	0	11770	0.00
2	Y	400	50	930	1198	2.99	70	76	75	17960	50	10570	0.20
3	Y	400	50	925	1310	3.12	70	76	74	15830	95	9315	0.38
4	Y	400	50	915	1457	3.31	72	77	76	12535	145	7375	0.58

Wired = Wiring · U = Voltage · 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 · q_V = Air flow · p_{fs} = Pressure increase

ebm-papst Ventilator (Xi'an) Co.,Ltd. • No.2555, No.5 Weishui Road, Weibei Industry Park, Lintong District, Xi'an, China, 710605 •Phone +86(0)29-83166100•www.ebmpapst.com

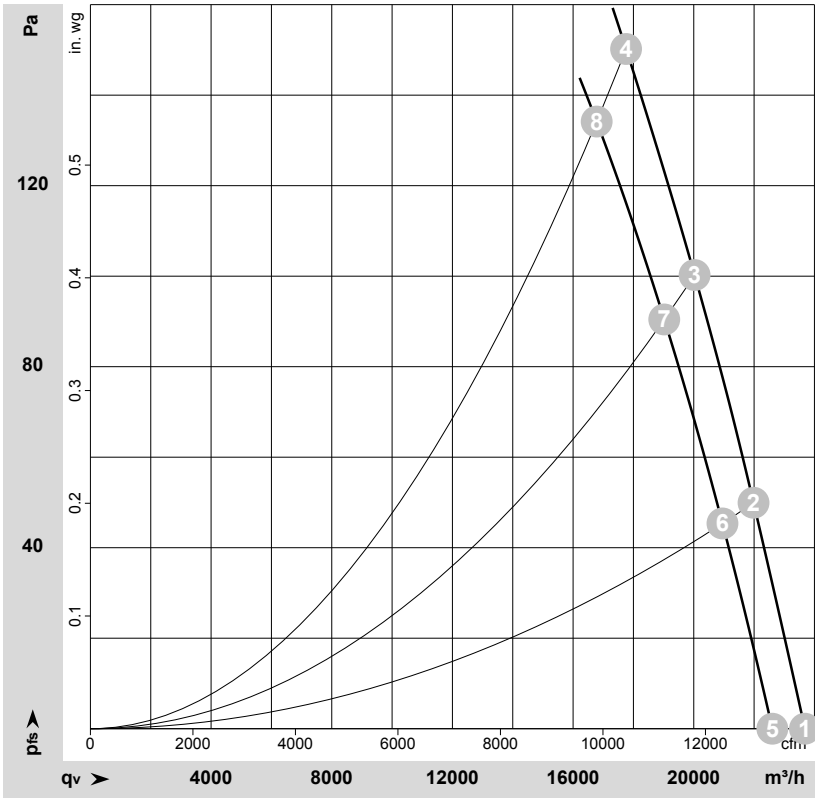
8322000017
VUR0800H7SQZ

AC axial fan - HyBlade

sickle-shaped blades (S series)

with round full nozzle, Transformer fan

Curves: Air performance 60 Hz



ρ = 1.15 kg/m³ ± 2 %

Measurement: LU-190259-1
Measurement: LU-190401-1

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}	q_V	p_{fs}	q_V	p_{fs}
		V	Hz	min^{-1}	W	A	dB(A)	dB(A)	dB(A)	m^3/h	Pa	cfm	in. wg
1	Y	480	60	1110	1710	3.30	76	83	82	23685	0	13940	0.00
2	Y	480	60	1105	1896	3.55	75	81	80	21980	50	12940	0.20
3	Y	480	60	1090	2051	3.71	74	80	79	20030	100	11790	0.40
4	Y	480	60	1080	2197	3.88	74	80	78	17755	150	10450	0.60
5	Y	400	60	1070	1570	3.20	75	81	81	22605	0	13305	0.00
6	Y	400	60	1055	1752	3.52	74	80	79	20950	49	12330	0.20
7	Y	400	60	1040	1866	3.71	73	79	78	19020	90	11195	0.36
8	Y	400	60	1025	1990	3.91	73	79	77	16780	135	9880	0.54

Wired = Wiring · U = Voltage · 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 · q_V = Air flow · p_{fs} = Pressure increase

ebm-papst Ventilator (Xi'an) Co.,Ltd. • No.2555, No.5 Weishui Road, Weibei Industry Park, Lintong District, Xi'an, China, 710605 •Phone +86(0)29-83166100•www.ebmpapst.com