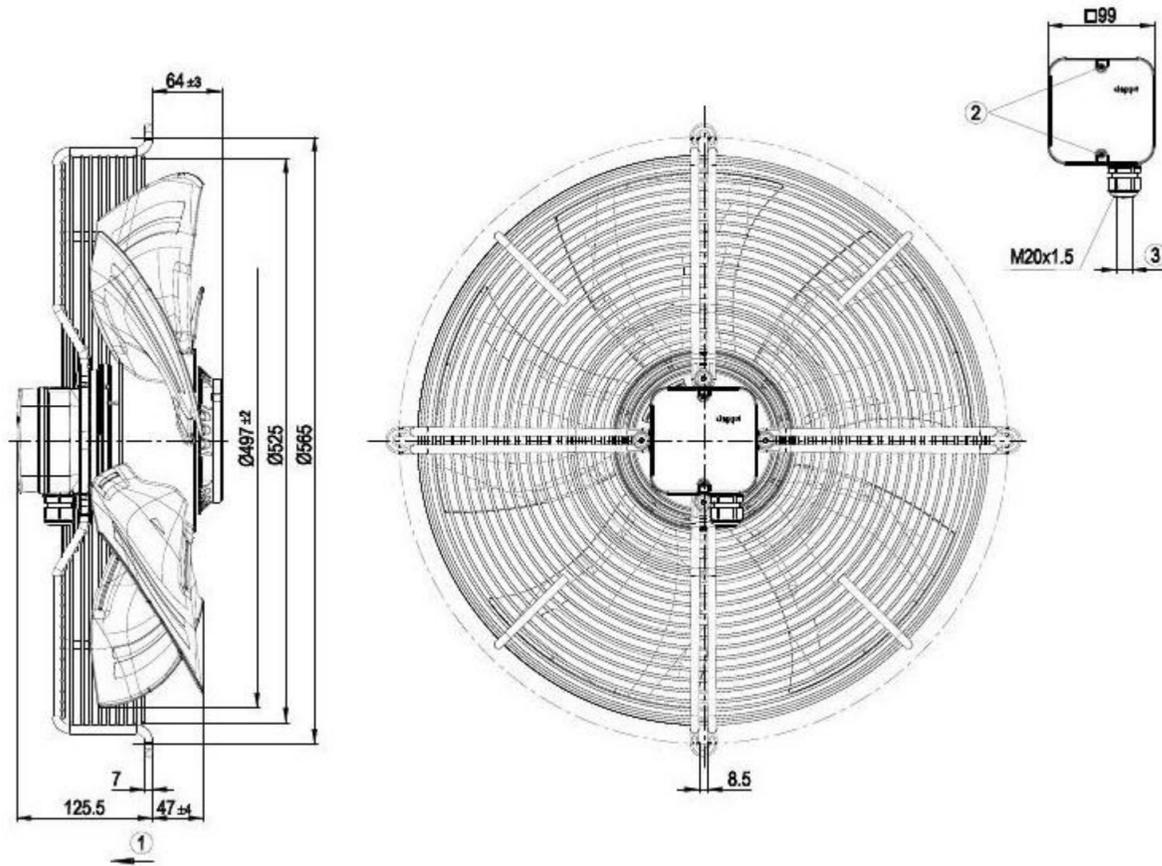


3. TECHNICAL DATA

3.1 Product drawing



All measures have the unit mm.

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

3.2 Nominal data

Motor	M8D110-EF			
Phase	3~	3~	3~	3~
Nominal voltage / VAC	400	400	400	400
Connection	Δ	Y	Δ	Y
Frequency / Hz	50	50	60	60
Type of data definition	ml	ml	ml	ml
Valid for approval / standard	-	-	-	-
Speed / min⁻¹	680	560	775	540
Power input / W	150	90	180	110
Current draw / A	0.4	0.18	0.38	0.20
Max. back pressure / Pa	40	28	50	25
Min. ambient temperature / °C	-40	-40	-40	-40
Max. ambient temperature / °C	65	65	65	65
Starting current / A	0.87			
Maximum safe operating speed / min⁻¹	1920 @ 55 °C	1920 @ 55 °C	1920 @ 55 °C	1920 @ 55 °C
Phase	3~		3~	
Nominal voltage / VAC	480		480	
Connection	Δ		Y	
Frequency / Hz	60		60	
Type of data definition	ml	ml		
Valid for approval / standard	-	-		
Speed / min⁻¹	810	630		
Power input / W	210	140		
Current draw / A	0.41	0.22		
Max. back pressure / Pa	55	35		
Min. ambient temperature / °C	-40	-40		
Max. ambient temperature / °C	65	65		
Starting current / A	0.95			
Maximum safe operating speed / min⁻¹	1920 @ 55 °C	1920 @ 55 °C		

Insulation class	"F"
Humidity class	F4-1
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
Cable exit	Axial
Protection class	I (if protective earth is connected by customer)
Product conforming to standard	EN 61800-5-1
Approval	EAC; VDE



For cyclic speed loads, note that the rotating parts of the device are designed for maximum one million load cycles. If you have specific questions, contact ebm-papst for support.

3.4 Mounting data

; Secure the mounting screws against accidentally coming loose (e.g. by using self-locking screws).

Strength class for mounting screws	8.8
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You can obtain additional mounting data from the product drawing if necessary.

3.5 Transport and storage conditions

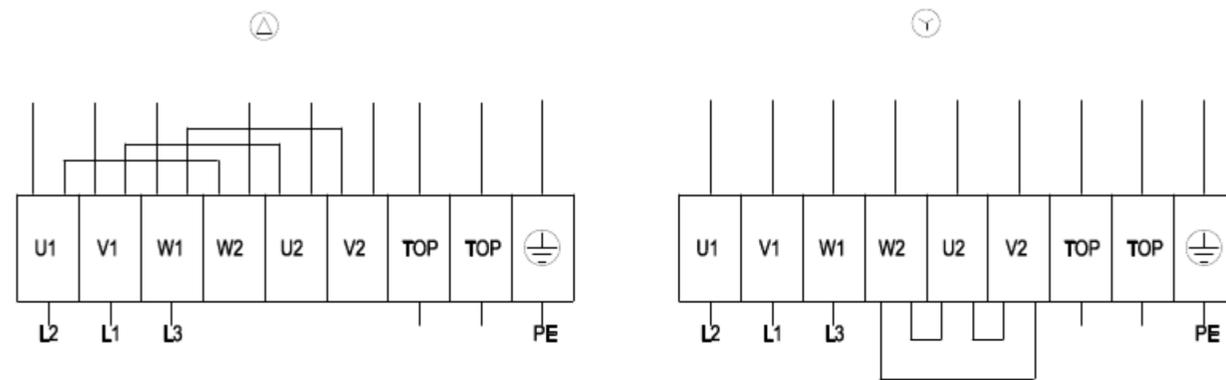
; Use the device in accordance with its protection type.

Max. permissible ambient motor temp. (transp./ storage)	+ 80 °C
Min. permissible ambient motor temp. (transp./storage)	- 40 °C

3.3 Technical features

Mass	10,6 kg
Size	500 mm
Surface of rotor	Coated in black
Material of terminal box	PP plastic
Material of blades	Press-fitted sheet steel blank, sprayed with PP plastic
Material of guard grille	Steel, coated in black plastic (RAL9005)
Number of blades	5
Direction of air flow	"V"
Direction of rotation	Counter-clockwise, seen on rotor
Type of protection	IP 54

4.4 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