W4D350-JN08-05

AC axial fan - AxiCool

sickled blades (S series), single inlet

Wall ring with guard grille

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Nominal data

Type	**W4D350-JN08-05**
Motor	**M4D074-DF**

Phase		3~	3~	3~
Nominal voltage	VAC	400	400	460
Connection		Y	Y	Y
Frequency	Hz	50	60	60
Type of data definition		ml	ml	ml
Valid for approval / standard		-	-	-
Speed (rpm)	min^{-1}	1370	1520	1600
Power input	W	170	230	255
Current draw	A	0.37	0.40	0.42
Max. back pressure	Pa	80	90	100
Min. ambient temperature	°C	-25	-25	-25
Max. ambient temperature	°C	65	55	55
Starting current	A	1.1	1.1	1.22

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	5.34 kg
Size	350 mm
Motor size	74
Surface of rotor	Coated in black
Material of blades	Press-fitted sheet steel blank, sprayed with PP plastic
Material of wall ring	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	IP44; Depending on installation and position as per EN 60034-5
Insulation class	"F"
Humidity (F) / environmental protection class (H)	H1+
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
Condensation drainage holes	Rotor-side
Operation mode	S1
Motor bearing	Ball bearing
Touch current acc. IEC 60990 (measuring network Fig. 4, TN system)	< 0.75 mA
Motor protection	Thermal overload protector (TOP) wired internally
Cable exit	Variable
Protection class	I (if protective earth is connected by customer)
Product conforming to standard	EN 60335-1
Note on CE	Commissioning in the European Economic Area prohibited
Approval	CSA C22.2 no. 100; UL 1004-1

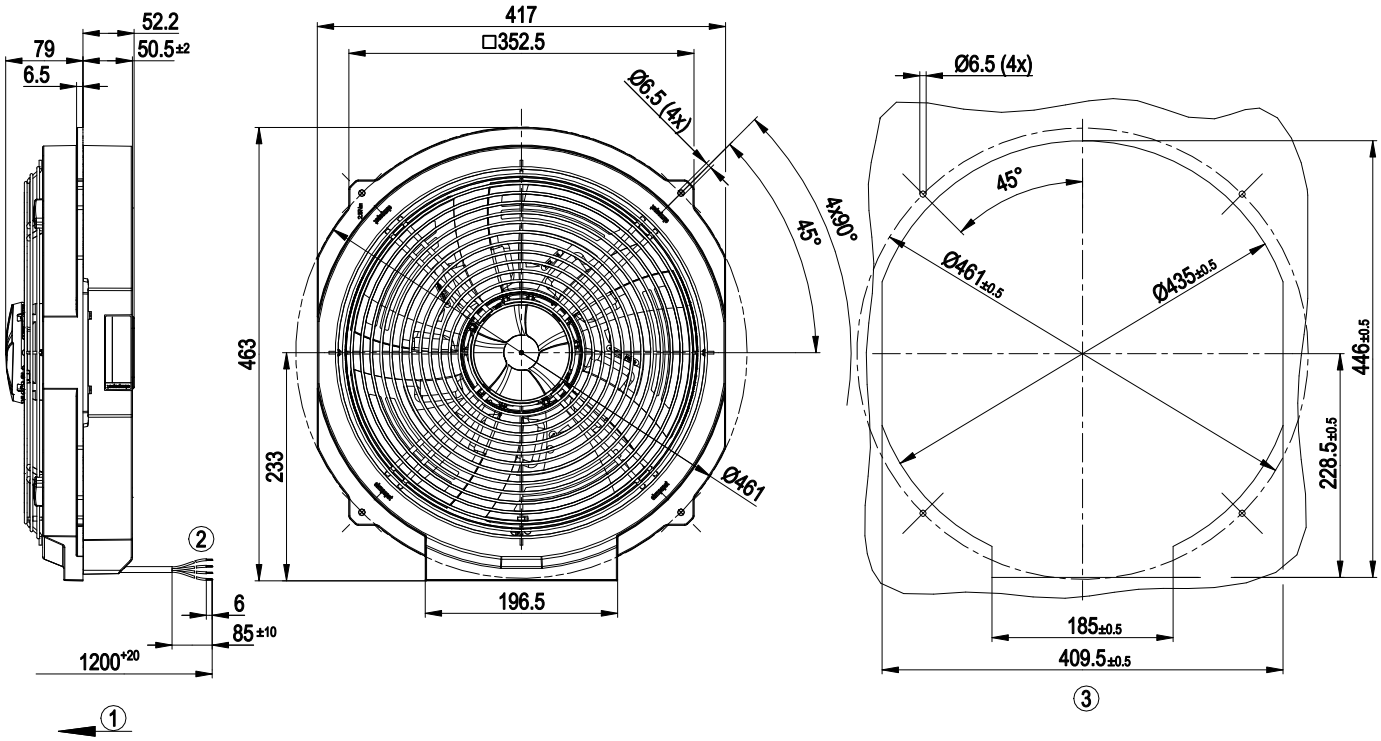
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Product drawing



1	Direction of air flow "V"
2	Connection line PFA AWG18, 4x lead tips crimped
3	Mounting dimensions

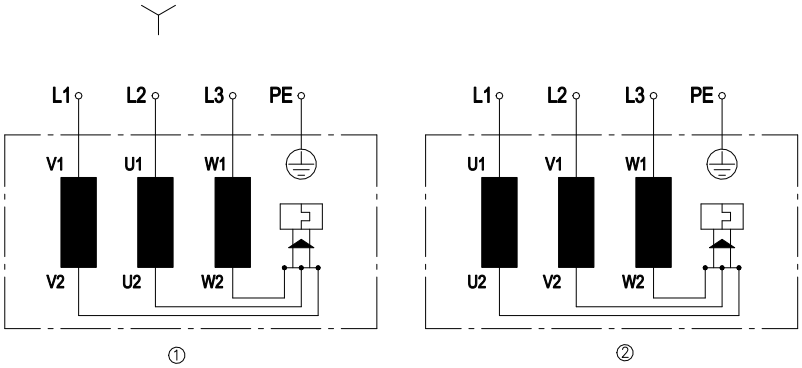
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Connection screen



Change direction of rotation by reversing two phases

	Three-phase motor
Y	Star connection
1	Anti-clockwise operation
L1	= V1 = blue
L2	= U1 = black
L3	= W1 = brown
2	Clockwise operation
L1	=U1=black
L2	=V1=blue
L3	=W1=brown
PE	green / yellow

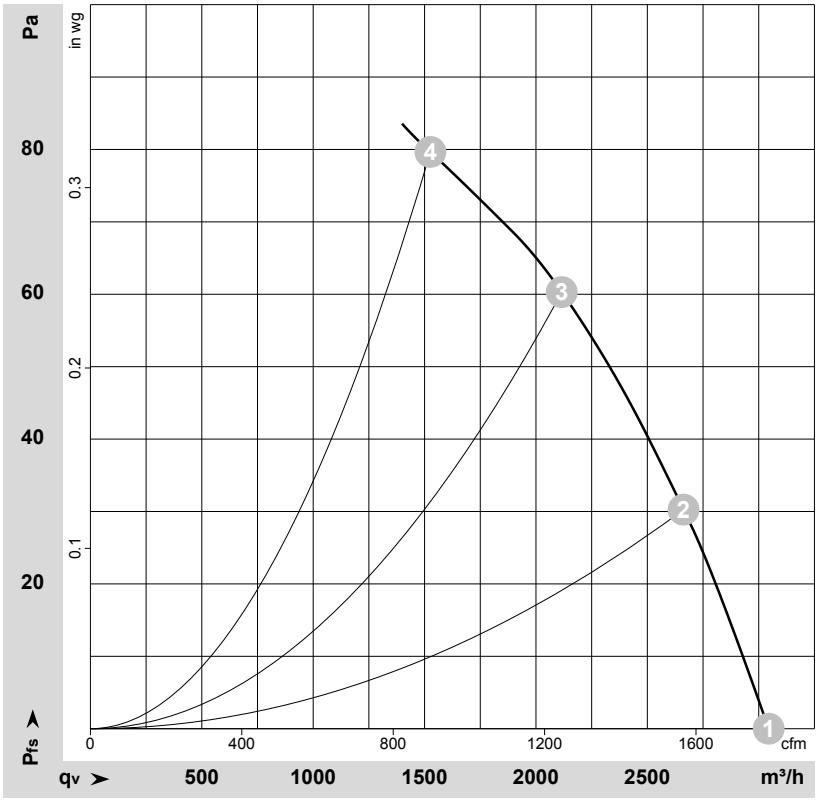
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Charts: Air flow 50 Hz



ρ = 1.15 kg/m³ ± 2 %

Measurement: LU-164604-1

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: 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	q_V	p_{fs}	q_V	p_{fs}
		V	Hz	min^{-1}	W	A	m^3/h	Pa	cfm	in. wg
1	Y	400	50	1390	136	0.34	3045	0	1790	0.00
2	Y	400	50	1375	147	0.34	2660	30	1565	0.12
3	Y	400	50	1365	156	0.35	2115	60	1245	0.24
4	Y	400	50	1370	170	0.37	1525	80	900	0.32

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

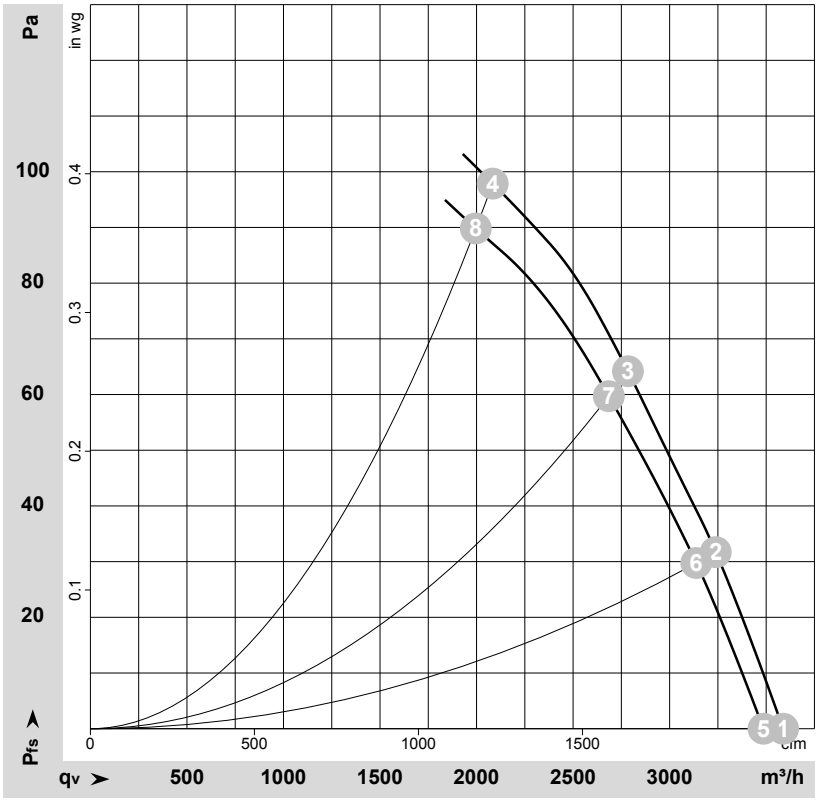
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Charts: Air flow 60 Hz



ρ = 1.15 kg/m³ ± 2 %

Measurement: LU-164777-1
Measurement: LU-164776-1

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: 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	q_V	p_{fs}	q_V	p_{fs}
		V	Hz	min^{-1}	W	A	m^3/h	Pa	cfm	in. wg
1	Y	460	60	1630	202	0.36	3590	0	2110	0.00
2	Y	460	60	1615	215	0.37	3240	32	1905	0.13
3	Y	460	60	1600	228	0.38	2785	64	1640	0.26
4	Y	460	60	1600	255	0.42	2085	100	1225	0.40
5	Y	400	60	1580	185	0.34	3485	0	2050	0.00
6	Y	400	60	1560	198	0.35	3140	30	1845	0.12
7	Y	400	60	1540	210	0.37	2685	60	1580	0.24
8	Y	400	60	1520	230	0.40	1995	90	1175	0.36

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

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