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Nominal data

Type	W2E142-BB05-87		
Motor	M2E052-AK		
Phase		1~	1~
Nominal voltage	VAC	115	115
Frequency	Hz	50	60
Type of data definition		fa	fa
Valid for approval / standard		CE	CE
Speed	min ⁻¹	2800	3350
Power input	W	27	28
Current draw	A	0.24	0.25
Motor capacitor	µF	3	3
Capacitor voltage	VDB	220	220
Capacitor standard		P0 (CE)	P0 (CE)
Min. ambient temperature	°C	-25	-25
Max. ambient temperature	°C	55	65

ml = max. load · me = max. efficiency · fa = running at free air · cs = customer specs · cu = customer unit
 Subject to alterations

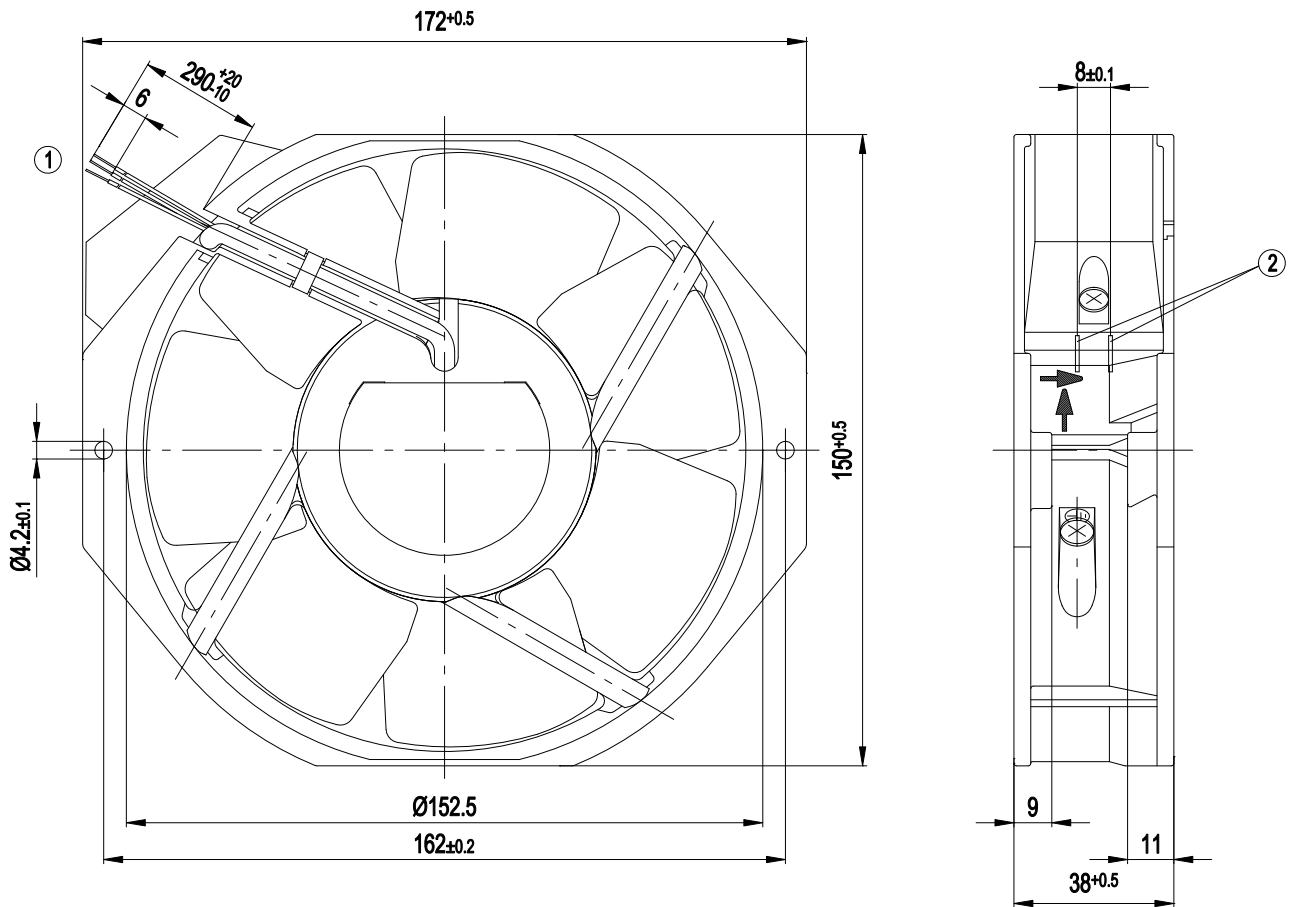


Technical features

Mass	0.8 kg
Size	142 mm
Surface of rotor	Coated in black
Material of blades	Sheet steel, coated in black
Material of wall ring	Die-cast aluminium, coated in black
Number of blades	7
Direction of air flow	"V"
Direction of rotation	Counter-clockwise, seen on rotor
Type of protection	IP 22; Depending on installation and position
Insulation class	"B"
Max. permissible ambient motor temp. (transp./ storage)	+ 80 °C
Min. permissible ambient motor temp. (transp./storage)	- 40 °C
Mounting position	Any
Condensate discharge holes	None
Operation mode	S1
Motor bearing	Ball bearing
Touch current acc. IEC 60990 (measuring network Fig. 4, TN system)	< 0.75 mA
Electrical leads	With plug
Motor protection	Thermal overload protector (TOP) wired internally
Protection class	I (if earth wire is connected by customer)
Product conforming to standard	EN 60335-1; CE
Approval	UL 507; CSA C22.2 Nr.113

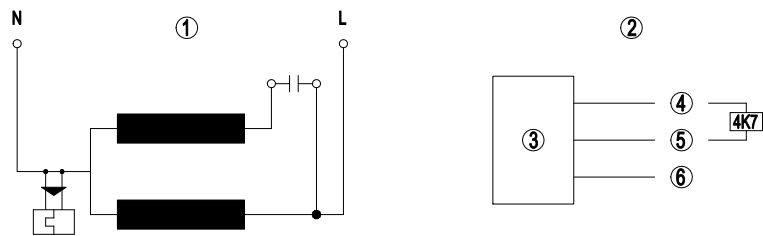


Product drawing



- | | |
|---|---|
| 1 | Connection line AWG26, 3 x 6 mm, tin-plated |
| 2 | 2 x flat plugs 2.8 x 0.5 mm |

Connection screen

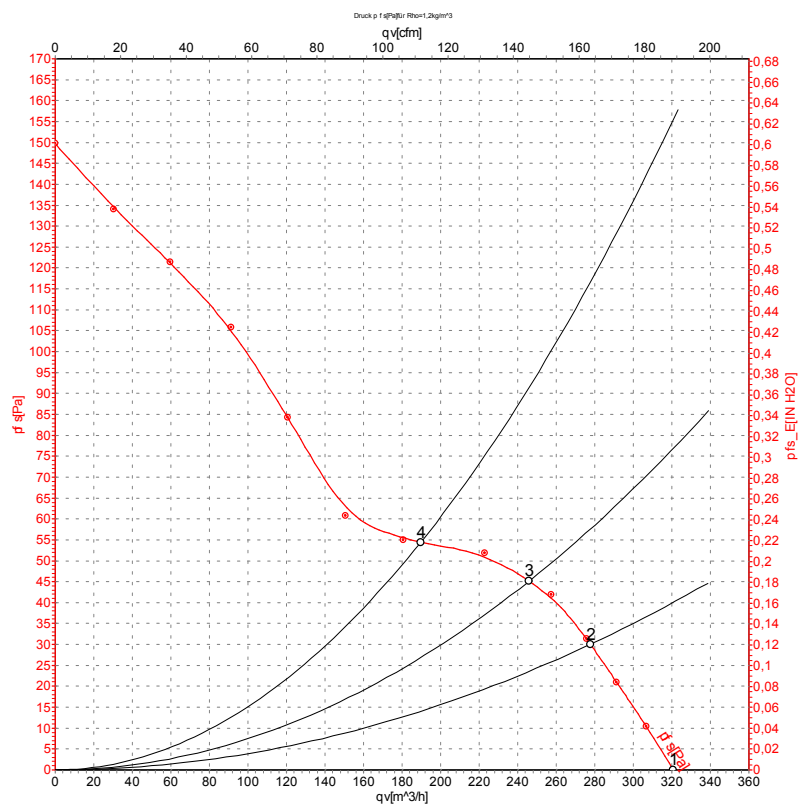


Tachometer

1	Fan connection diagram
2	Hall IC circuit
3	Hall IC
4	Red (+5V)
5	White (out)
6	Black (0V)



Charts: Air flow 50 Hz



Measurement: LU-64115

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.

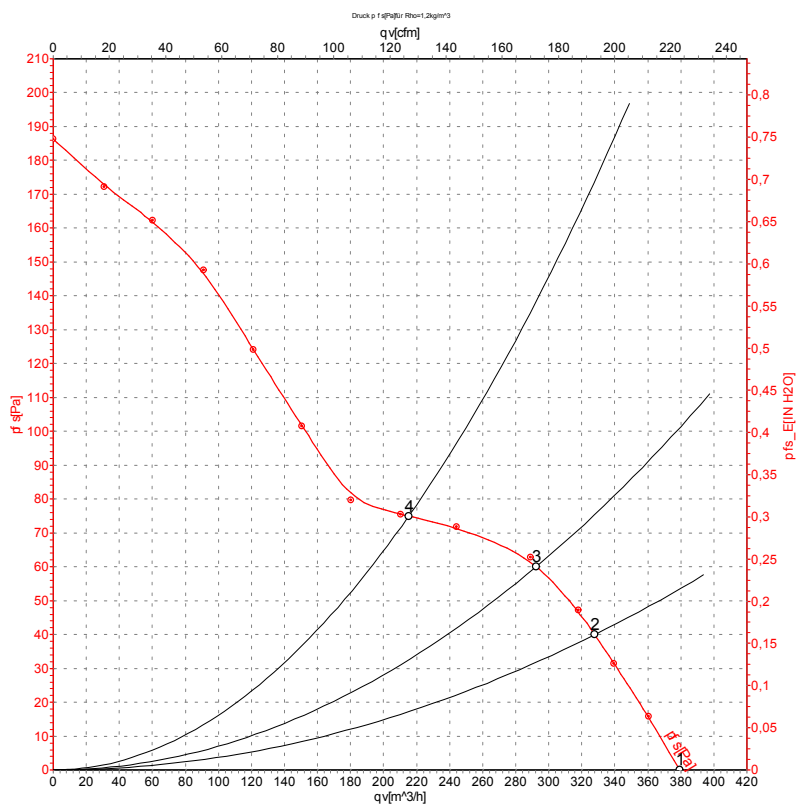
Measured values

	U	f	n	P _e	I	qv	p _{fs}
	V	Hz	min ⁻¹	W	A	m³/h	Pa
1	115	50	2830	24	0.22	320	0
2	115	50	2795	24	0.23	280	30
3	115	50	2775	25	0.23	245	45
4	115	50	2775	25	0.23	190	55

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



Charts: Air flow 60 Hz



Measurement: LU-64116

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

	U	f	n	P _e	I	qv	p _{fs}
	V	Hz	min ⁻¹	W	A	m³/h	Pa
1	115	60	3350	28	0.25	380	0
2	115	60	3280	28	0.25	330	40
3	115	60	3240	28	0.25	290	60
4	115	60	3230	29	0.25	215	75

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

