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Amtsgericht (court of registration) Stuttgart · HRB 590142

Nominal data

Type	R2D220-AC02-12		
Motor	M2D068-CF		
Phase		3~	3~
Nominal voltage	VAC	400	415
Wiring		Y	Y
Frequency	Hz	50	60
Method of obtaining data		fa	fa
Valid for approval/standard		CE	CE
Speed (rpm)	min ⁻¹	2700	3000
Power consumption	W	72	100
Current draw	A	0.16	0.17
Min. back pressure	Pa	0	0
Min. back pressure	inH ₂ O	0	0
Max. ambient temperature	°C	55	50

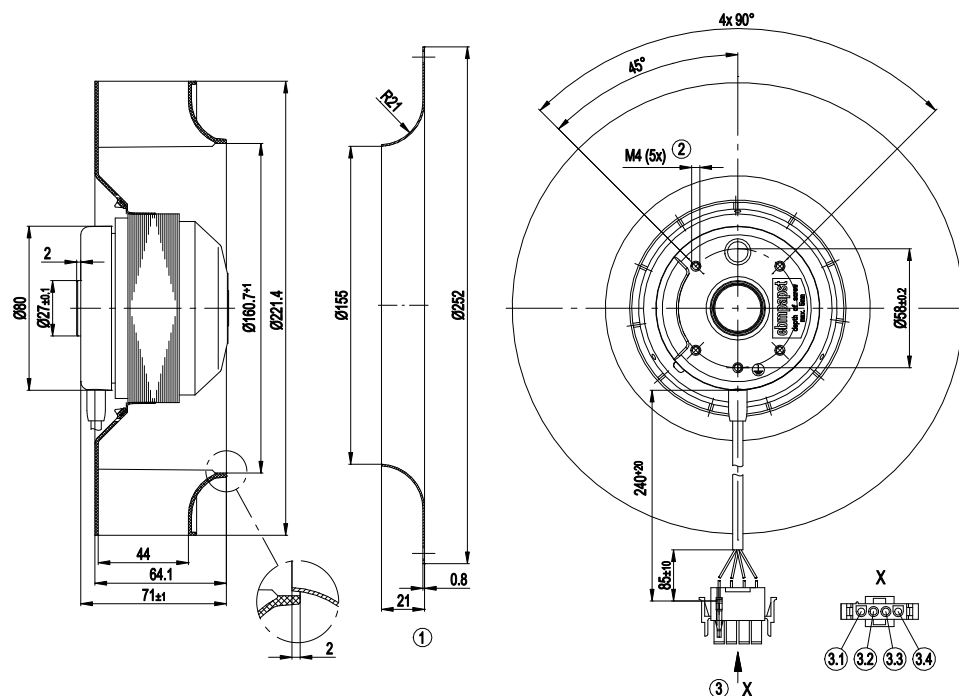
ml = Max. load · me = Max. efficiency · fa = Free air · cs = Customer specification · ce = Customer equipment
Subject to change



Technical description

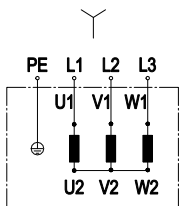
Weight	1.7 kg
Fan size	220 mm
Rotor surface	Unpainted
Impeller material	PA6 plastic, glass-fiber reinforced
Number of blades	11
Direction of rotation	Clockwise, viewed toward rotor
Degree of protection	IP44; installation- and position-dependent
Insulation class	"B"
Moisture (F) / Environmental (H) protection class	H0 - dry environment
Max. permitted ambient temp. for motor (transport/storage)	+ 80 °C
Min. permitted ambient temp. for motor (transport/storage)	- 40 °C
Installation position	Any
Condensation drainage holes	None
Mode	S1
Motor bearing	Ball bearing
Touch current according to IEC 60990 (measuring circuit Fig. 4, TN system)	< 0.75 mA
Electrical hookup	With plug
With cable	Lateral
Protection class	I (with customer connection of protective earth)
Conformity with standards	EN 60335-1, motor does not have factory-installed overheating protection

Product drawing



1	Accessory part: Inlet ring 09609-2-4013, not included in scope of delivery
2	Max. clearance for screw 5 mm
3	Cable PVC 4G 0.5 mm ² , 4-pole connector housing tyco 350779-5, 4x socket tyco 926882-1
3.1	L1
3.2	L2
3.3	L3
3.4	PE

Connection diagram

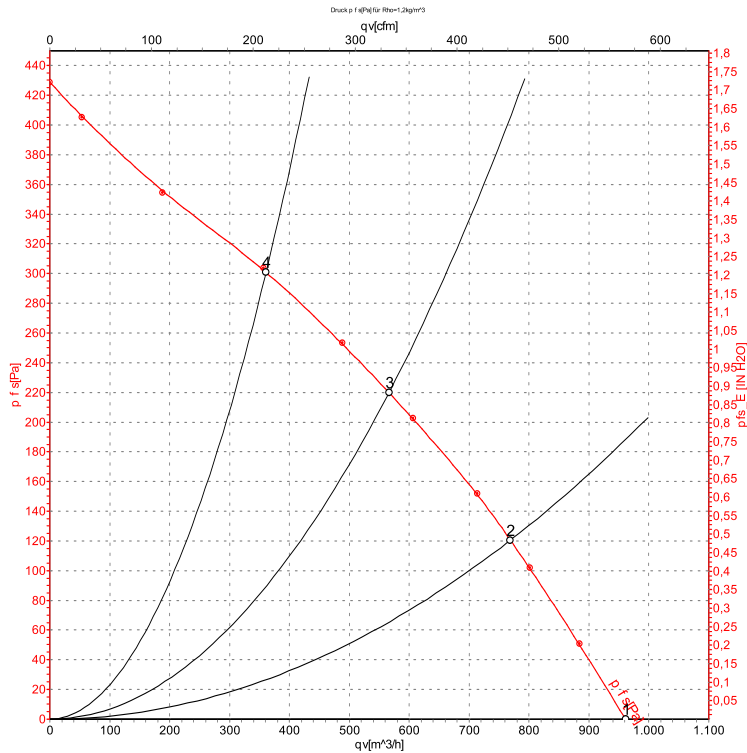


Change of rotation direction by reversing two phases

	Three-phase motor	Y	Star connection	L1	black
L2	blue	L3	brown	PE	green/yellow



Curves: Air performance 50 Hz



Measurement: LU-45699-1

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.

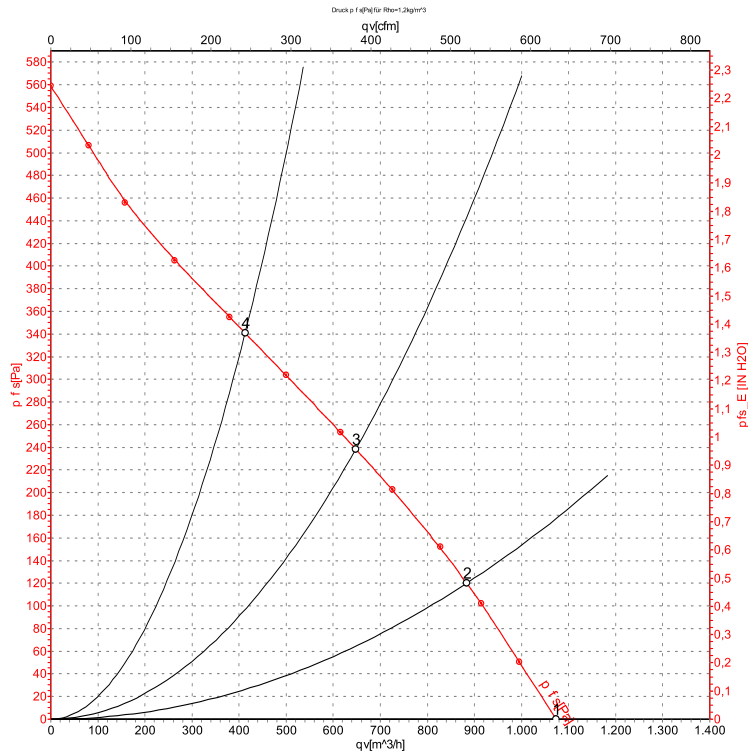
Measured values

	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	inH ₂ O
1	400	50	2645	72	0.16	960	0	565	0.00
2	400	50	2540	90	0.17	770	120	455	0.48
3	400	50	2470	100	0.18	565	220	335	0.88
4	400	50	2490	97	0.18	360	300	210	1.20

U = Power supply · f = Frequency · n = Speed (rpm) · P_e = Power consumption · I = Current draw · q_v = Air flow · p_{fs} = Pressure increase



Curves: Air performance 60 Hz



Measurement: LU-45700-1

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

	U	f	n	P _e	I	q _v	P _{ts}	q _v	P _{ts}
	V	Hz	min ⁻¹	W	A	m³/h	Pa	cfm	inH ₂ O
1	415	60	2950	100	0.17	1075	0	630	0.00
2	415	60	2810	122	0.20	885	120	520	0.48
3	415	60	2660	139	0.22	650	240	380	0.96
4	415	60	2680	136	0.21	415	340	245	1.36

U = Power supply · f = Frequency · n = Speed (rpm) · P_e = Power consumption · I = Current draw · q_v = Air flow · P_{ts} = Pressure increase



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