

D3G146-8317078671

EC centrifugal fan

forward-curved
with housing (flange)

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Nominal data

Type	D3G146-8317078671	
Motor	M3G055DF	
Phase		1~
Nominal voltage	VAC	220
Nominal voltage range	VAC	200 .. 240
Frequency	Hz	50/60
Method of obtaining data		ml
Speed (rpm)	min ⁻¹	2622
Power consumption	W	150
Current draw	A	1.3
Min. ambient temperature	°C	-25
Max. ambient temperature	°C	40

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



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Technical description

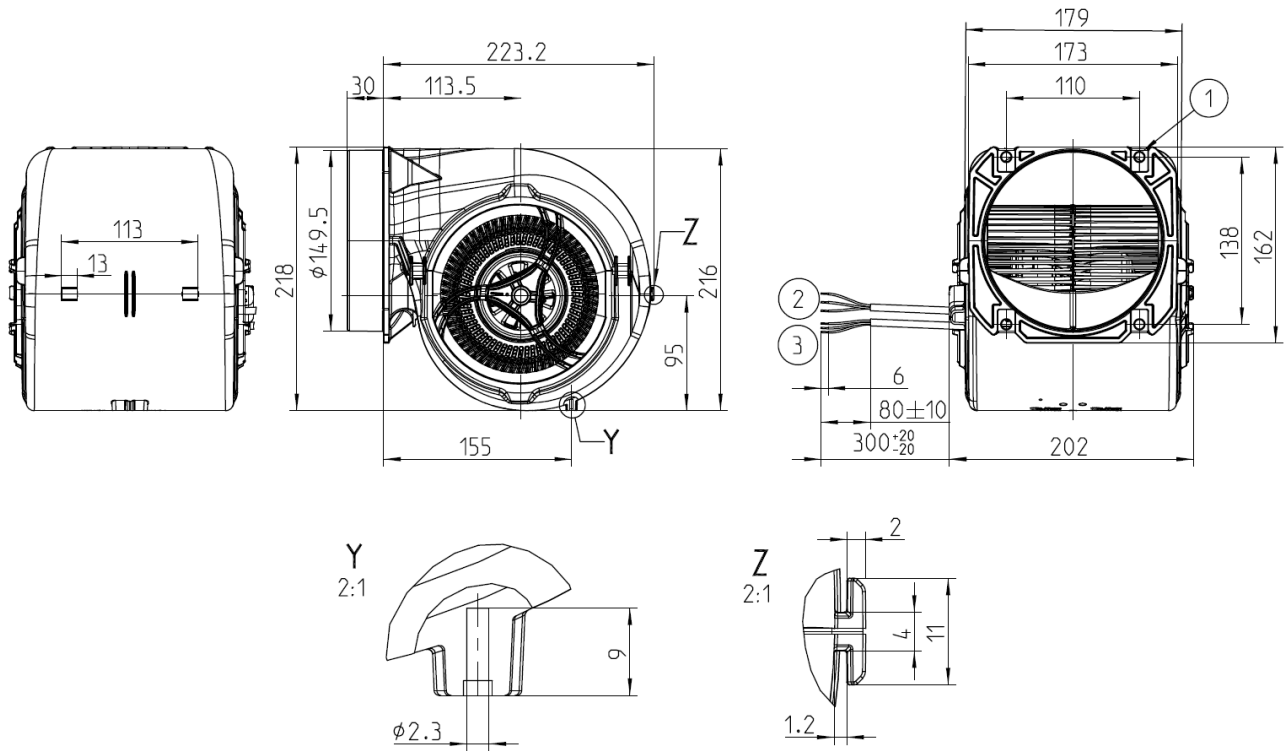
Weight	2.1 kg
Fan size	146 mm
Rotor surface	Thick-film passivated
Electronics housing material	Die-cast aluminum
Impeller material	Plastic
Direction of rotation	Anticlockwise, viewed toward rotor
Degree of protection	IP44
Insulation class	"B"
Moisture (F) / Environmental (H) protection class	H1
Max. 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	On rotor side
Mode	S1
Motor bearing	Ball bearing
Technical features	- Tach output - Motor current limit - Soft start - PWM control input
Touch current acc. IEC 60990 (measuring network Fig. 4, TN system)	<= 3.5 mA
Motor protection	Locked-rotor protection
Cable exit	Variable
Protection class	I (if protective earth is connected by customer)
Product conforming to standard	GB12350
Approval	CCC;



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Product drawing



1	4x sheet metal nut for thread EN ISO 1478-ST4.8 (min. screw length 14.5 mm plus thickness of mounting material)
2	Cable PVC 3x 0.25 mm ² , 3x tinning thread
3	Cable PVC 3x 0.5 mm ² , 3x tinning thread

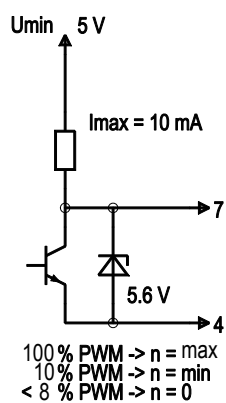
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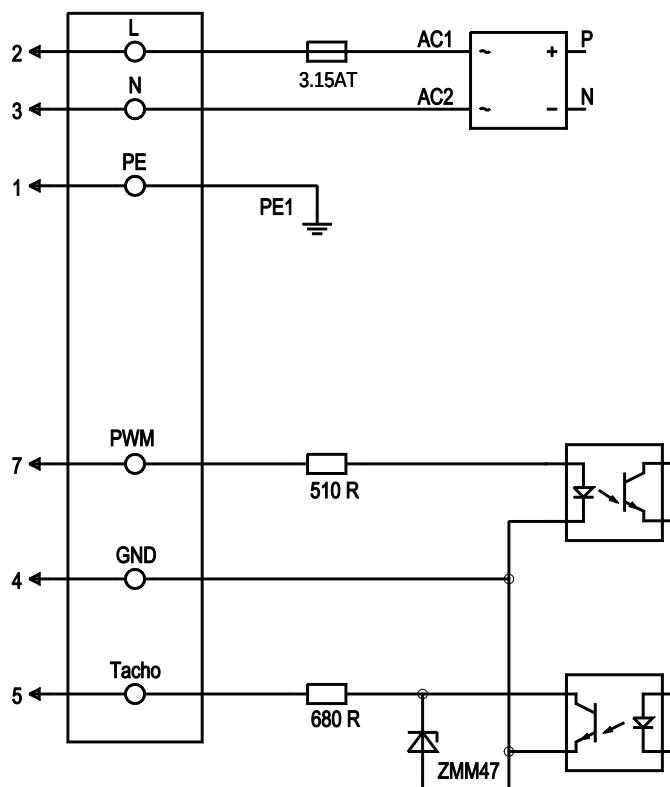
Connection diagram

Customer circuit

Speed setting via
PWM 1~10 kHz

Connection

Fan / motor



Line	No.	Signal	Colour	Function / assignment
	1	PE	green/yellow	Protective earth
	2	L	brown	Power supply 220 VAC, 50 - 60 Hz
	3	N	blue	Neutral conductor
	4	GND	blue	GND - Connection for control interface
	5	Tacho	white	Tach output: Open Collector, 1 pulse per revolution, electrically isolated
	7	PWM	yellow	PWM control input, electrically isolated



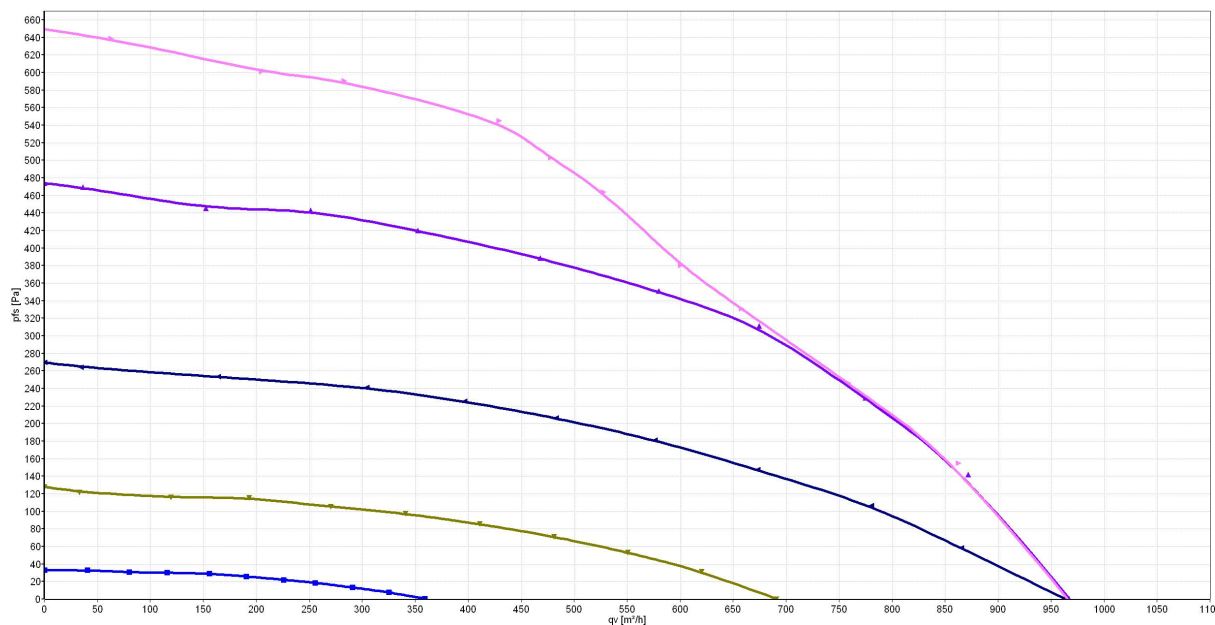
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Curves: Air performance 50 Hz

Kennlinie	Idno	Typ	Idx.	U [V]	f [Hz]	C [uF]	Ust [V]	Versch.	Inst. Kat.	Bemerkung
■	10351	D3G146-PLATFORM	33E	220	50			Y	A	20%PWM
▼	10351	D3G146-PLATFORM	33E	220	50			Y	A	40%PWM
◀	10351	D3G146-PLATFORM	33E	220	50			Y	A	60%PWM
▲	10351	D3G146-PLATFORM	33E	220	50			Y	A	80%PWM
▶	10351	D3G146-PLATFORM	33E	220	50			Y	A	100%PWM



$$\rho = 1.2 \text{ kg/m}^3 \pm 2 \%$$

Test ID:10351

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.

