G2D146-CE04-13

AC centrifugal fan

backward curved, single inlet

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Nominal data

Type	**G2D146-CE04-13**
Motor	**M2D068-DF**

Phase		1~	1~	3~	3~
Nominal voltage	VAC	230	230	400	400
Connection		Δ	Δ	Y	Y
Frequency	Hz	50	60	50	60
Type of data definition		fa	fa	fa	fa
Valid for approval / standard		CE	CE	CE	CE
Speed	min^{-1}	2420	2540	2420	2540
Power input	W	210	280	210	280
Current draw	A	0.65	0.76	0.37	0.44
Min. back pressure	Pa	0	0	0	0
Min. ambient temperature	°C	-25	-25	-25	-25
Max. ambient temperature	°C	90	70	90	70
Starting current	A	1.7	1.65	0.97	0.95

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

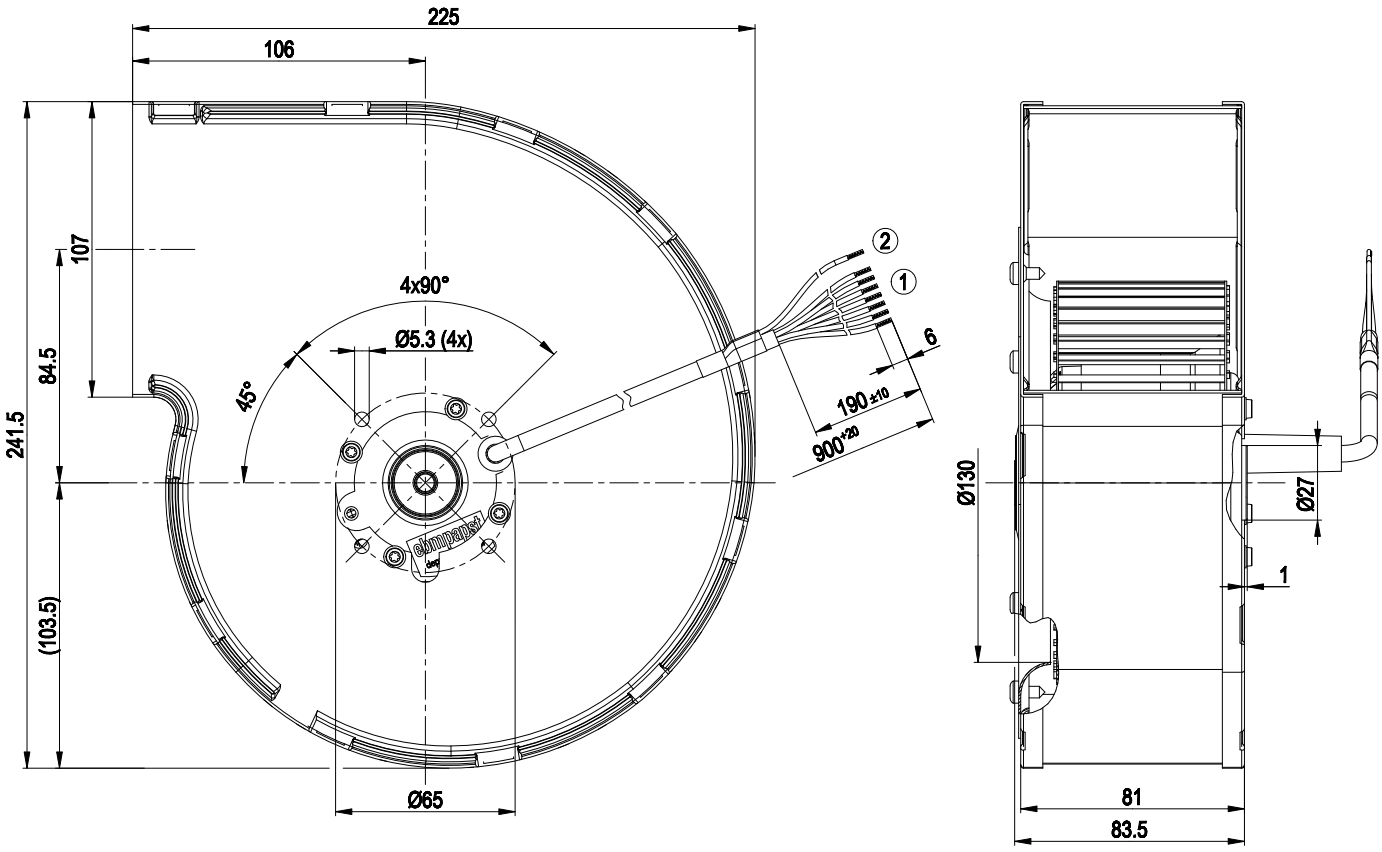
Mass	3.2 kg
Size	146 mm
Surface of rotor	Coated in black
Material of impeller	Sheet steel, coated in black
Housing material	Sheet steel, galvanised
Direction of rotation	Clockwise, seen on rotor
Type of protection	IP 44; Depending on installation and position as per EN 60034-5
Insulation class	"F"
Humidity class	F1-2
Max. permissible ambient motor temp. (transp./ storage)	+ 80 °C
Min. permissible ambient motor temp. (transp./storage)	- 40 °C
Mounting position	Any
Condensate discharge holes	Rotor-side
Operation mode	S1
Motor bearing	Ball bearing
Touch current acc. IEC 60990 (measuring network Fig. 4, TN system)	< 0.75 mA
Cable exit	Axial
Protection class	I (if protective earth is connected by customer)
Product conforming to standard	EN 60335-1, motor does not have factory-installed overheating protection; CE

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Product drawing



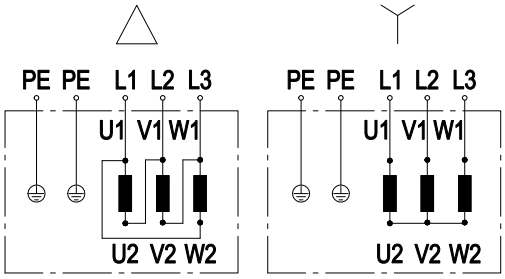
1	Connection line silicone 7G 0.75 mm², 7x lead tips crimped
2	Connection line halogen and silicone-free 1x 0.5 mm² (PE for shielding), 1x lead tip crimped

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Connection screen



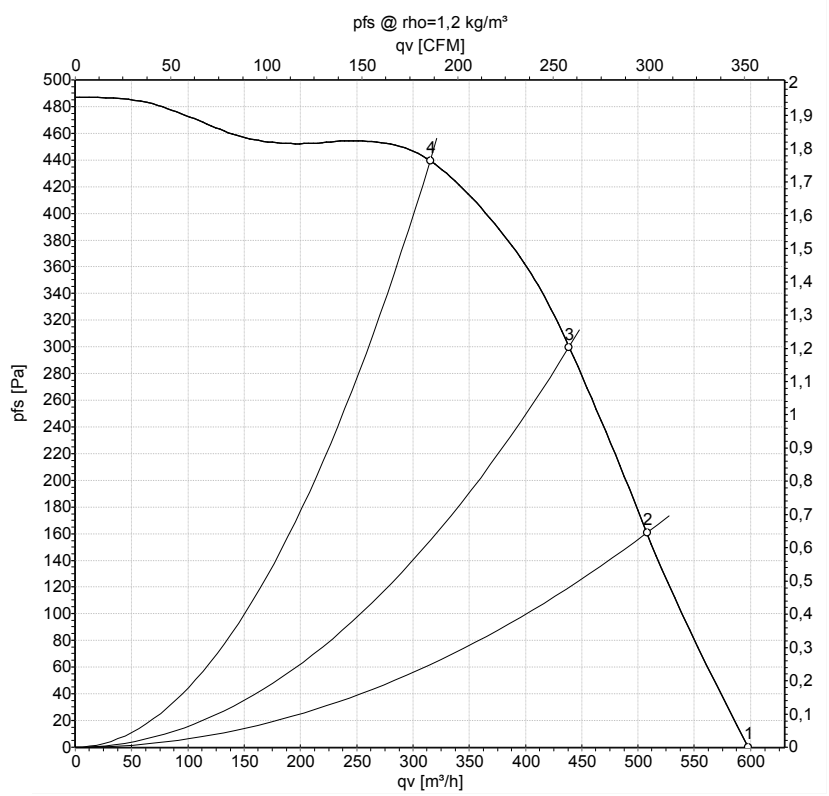
	Three-phase motor	Y	Star connection	Δ	Delta connection
L1	= U1 = black 1	L2	= V1 = black 2	L3	= W1 = black 3
V2	= black 4	U2	= black 5	W2	= black 6
PE	green/yellow (2x)				

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Charts: Air flow 50 Hz



Measurement: LU-59388

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	qv	p_{fs}
		V	Hz	min^{-1}	W	A	m^3/h	Pa
1	Y	400	50	2420	210	0.37	600	0
2	Y	400	50	2555	174	0.33	510	160
3	Y	400	50	2620	153	0.30	440	300
4	Y	400	50	2735	117	0.27	315	440

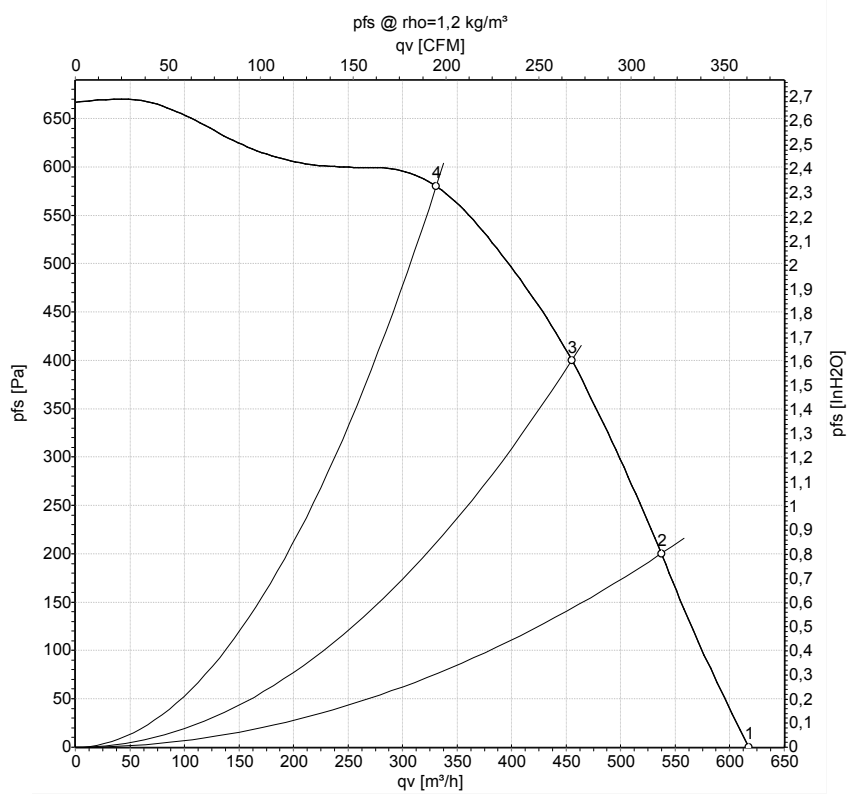
Conn. = Connection · U = Supply voltage · f = Frequency · n = Speed · P_e = Power input · I = Current draw · qv = Air flow · p_{fs} = Pressure increase

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Charts: Air flow 60 Hz



Measurement: LU-59389

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	qv	p_{fs}
		V	Hz	min^{-1}	W	A	m^3/h	Pa
1	Y	400	60	2540	280	0.44	615	0
2	Y	400	60	2730	239	0.39	535	200
3	Y	400	60	2895	204	0.34	455	400
4	Y	400	60	3095	156	0.27	330	580

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