AC centrifugal fan

forward curved, single inlet

with housing (flange)

G2E146-DW10-13 ebmpapst Datasheet
sales@fansco.com
www.fansco.com

Limited partnership · Headquarters Mulfingen
County court Stuttgart · HRA 590344

General partner Elektrobau Mulfingen GmbH · Headquarters Mulfingen
County court Stuttgart · HRB 590142

Nominal data

Type	**G2E146-DW10-13**		
Motor	**M2E068-CA**		
Phase		1~	1~
Nominal voltage	VAC	230	240
Frequency	Hz	50	60
Type of data definition		cs	cs
Valid for approval / standard		CE	CE
Speed	min^{-1}	2100	2200
Power input	W	127	167
Current draw	A	0.56	0.7
Motor capacitor	µF	2.5	2.5
Capacitor voltage	VDB	400	400
Capacitor standard		P0 (CE)	P0 (CE)
Min. back pressure	Pa	250	265
Min. ambient temperature	°C	-25	-25
Max. ambient temperature	°C	60	50

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

AC centrifugal fan

forward curved, single inlet

with housing (flange)

Technical features

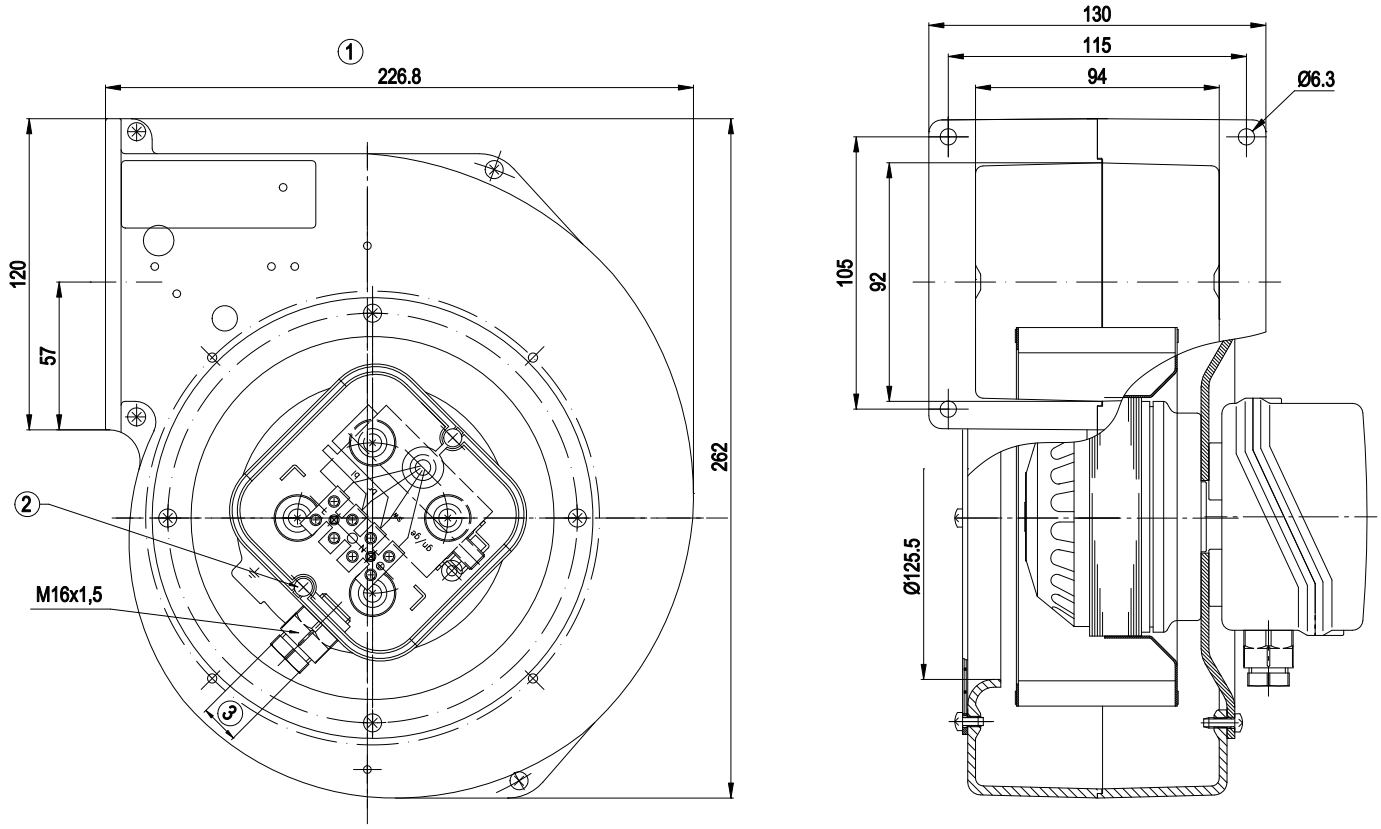
Mass	3.1 kg
Size	146 mm
Surface of rotor	Coated in black
Material of impeller	Sheet steel, sendzimir galvanised
Housing material	Die-cast aluminium
Direction of rotation	Clockwise, seen on rotor
Type of protection	IP 54
Insulation class	"F"
Humidity class	F5
Max. permissible ambient motor temp. (transp./ storage)	+80 °C
Min. permissible ambient motor temp. (transp./storage)	-40 °C
Mounting position	Shaft horizontal
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	Via terminal box, integrated capacitor connected via terminal box
Motor protection	Thermal overload protector (TOP) wired internally
Protection class	I (if protective earth is connected by customer)
Product conforming to standard	EN 60335-1; CE

AC centrifugal fan

forward curved, single inlet

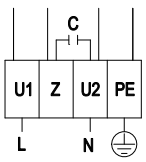
with housing (flange)

Product drawing



1	Illustration without terminal box cover
2	Tightening torque 0.8 Nm
3	Cable diameter max. 7.5 mm; tightening torque 2 Nm

Connection screen



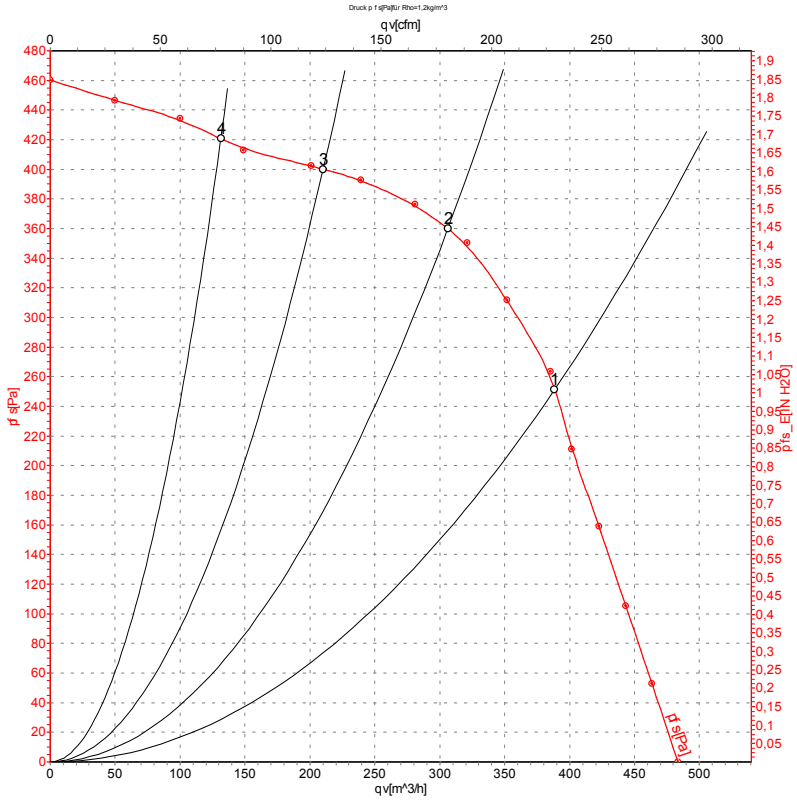
L	= U1 = blue	Z	brown	N	= U2 = black
PE	green/yellow				

AC centrifugal fan

forward curved, single inlet

with housing (flange)

Charts: Air flow 50 Hz



Measurement: LU-118944

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	m^3/h	Pa
1	230	50	2100	127	0.56	390	250
2	230	50	2410	114	0.50	305	360
3	230	50	2575	101	0.45	210	400
4	230	50	2680	93	0.43	130	420

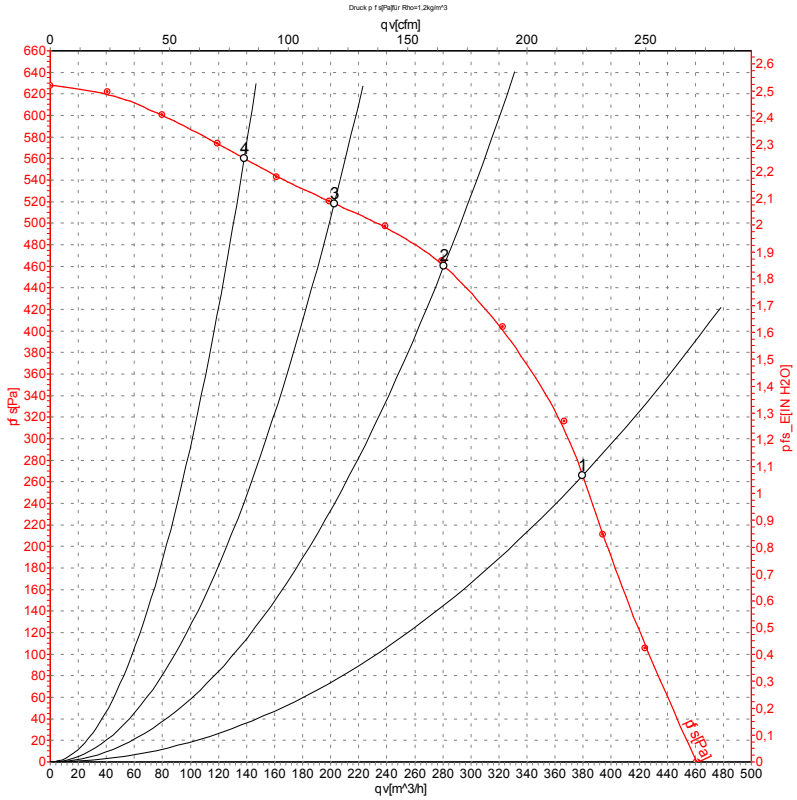
U = Supply voltage · f = Frequency · n = Speed · P_e = Power input · I = Current draw · qv = Air flow · p_{fs} = Pressure increase

AC centrifugal fan

forward curved, single inlet

with housing (flange)

Charts: Air flow 60 Hz



Measurement: LU-118945

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	m^3/h	Pa
1	240	60	2200	167	0.70	380	265
2	240	60	2725	147	0.61	280	460
3	240	60	2945	133	0.55	200	520
4	240	60	3085	123	0.51	140	560

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