G4D250-EC10-03

AC centrifugal fan

forward curved, single inlet

with housing (large flange)

G4D250-EC10-03 ebmpapst Datasheet FansCo

sales@fansco.com

www.fansco.com

Nominal data

Type	**G4D250-EC10-03**
Motor	**M4D094-HA**

Phase		3~	3~
Nominal voltage	VAC	400	400
Connection		Y	Y
Frequency	Hz	50	60
Type of data definition		fa	ml
Valid for approval / standard		CE	CE
Speed	min^{-1}	1280	1560
Power input	W	800	700
Current draw	A	1.46	1.24
Min. back pressure	Pa	0	300
Min. ambient temperature	°C	-40	-40
Max. ambient temperature	°C	50	50
Starting current	A	4	3.7

ml = Max. load · me = Max. efficiency · fa = Running at free air · cs = Customer specs · cu = Customer unit
Subject to alterations

Data according to ErP directive

Installation category	B
Efficiency category	Total
Variable speed drive	No
Specific ratio*	1.00

* Specific ratio = 1 + p_f / 100 000 Pa

		Actual	Request 2013	Request 2015
Overall efficiency η_e	%	43.3	32	39
Efficiency grade N		53.3	42	49
Power input P_e	kW	0.26		
Air flow q_v	m^3/h	1060		
Pressure increase p_f	Pa	389		
Speed n	min^{-1}	1445		

Data definition with optimum efficiency. LU-56382
The ErP data is determined using a motor-impeller combination in a standardised measurement configuration.

ebmpapst

G4D250-EC10-03 ebmpapst Datasheet FansCo sales@fansco.com www.fansco.com

AC centrifugal fan

forward curved, single inlet

with housing (large flange)

Technical features

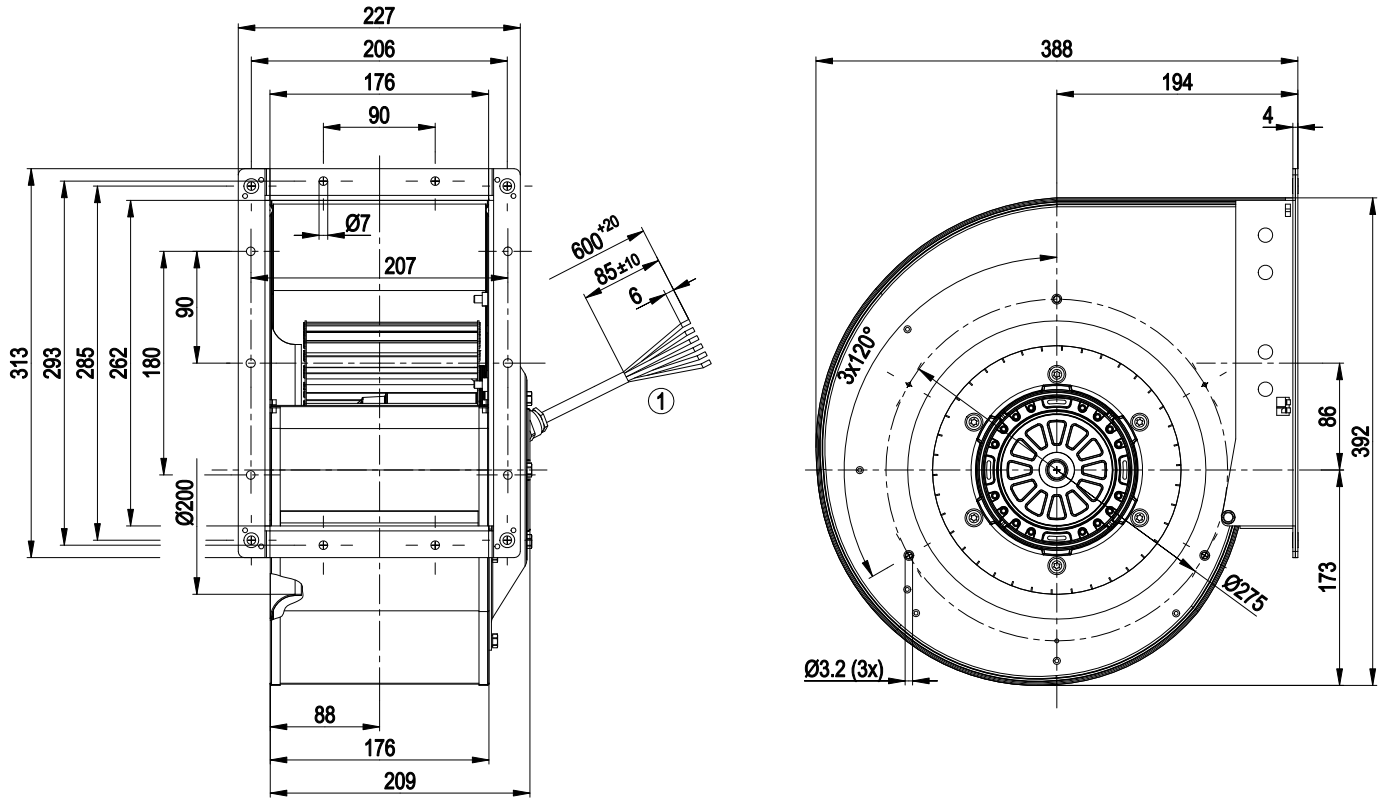
Mass	14.1 kg
Size	250 mm
Material of impeller	Sheet steel, galvanised
Housing material	Sheet steel, galvanised
Direction of rotation	Clockwise, seen on rotor
Type of protection	IP 54
Insulation class	"F"
Humidity class	F4-1
Max. permissible ambient motor temp. (transp./ storage)	+80 °C
Min. permissible 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)	<= 3.5 mA
Motor protection	Thermal overload protector (TOP) brought out
Cable exit	Variable
Protection class	I (if protective earth is connected by customer)
Product conforming to standard	EN 60034-1 (2004); CE
Approval	CCC; EAC

AC centrifugal fan

forward curved, single inlet

with housing (large flange)

Product drawing



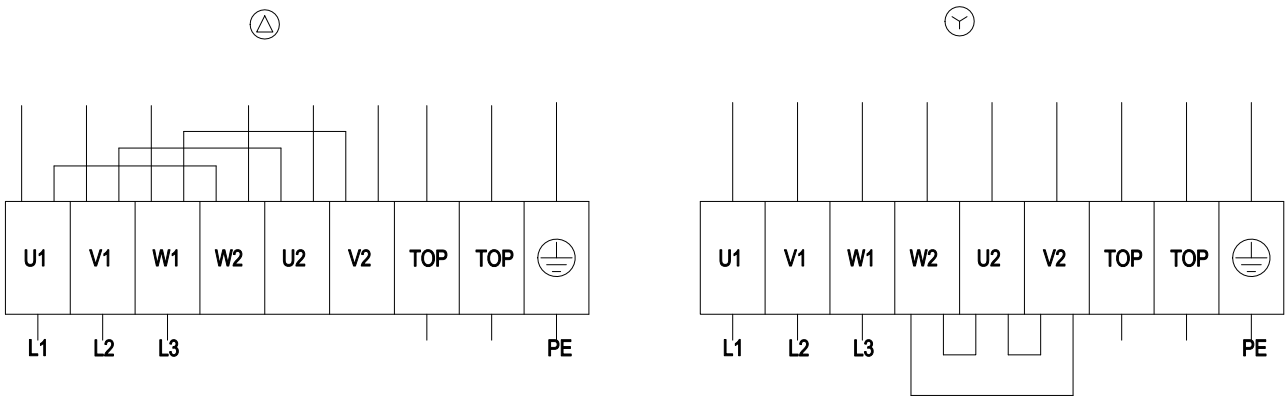
1	Connection line silicone 6 x 0.5 mm², 6x lead tips crimped

AC centrifugal fan

forward curved, single inlet

with housing (large flange)

Connection screen



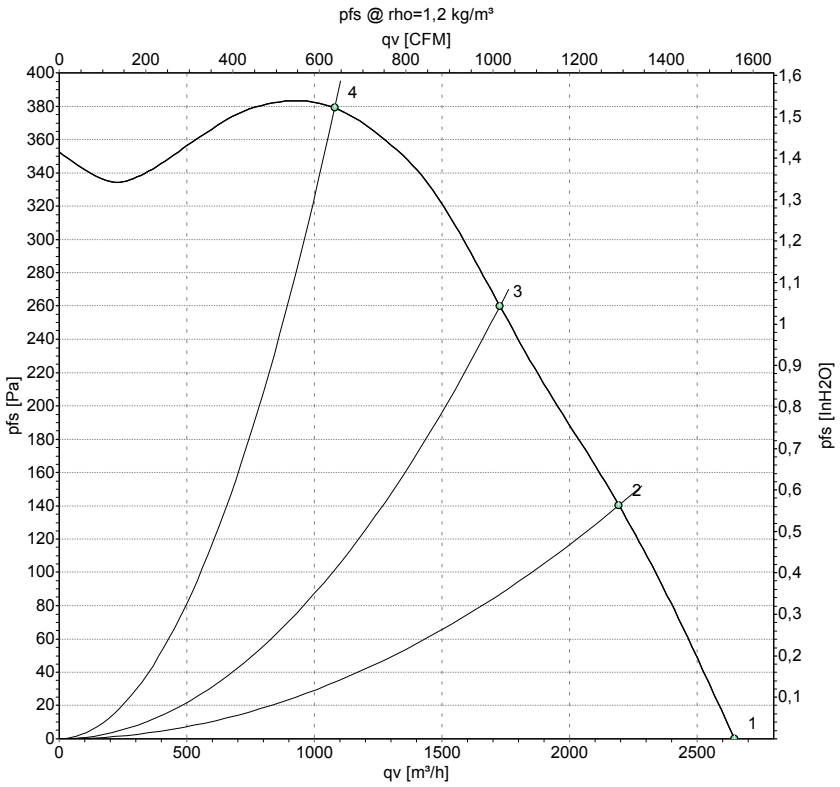
Δ	Delta-connection	Y	Star connection	L1	= U1 = black
L2	= V1 = blue	L3	= W1 = brown	W2	yellow
U2	green	V2	white	TOP	2 x grey
PE	green / yellow				

AC centrifugal fan

forward curved, single inlet

with housing (large flange)

Charts: Air flow 50 Hz



Measurement: LU-56382

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	400	50	1280	800	1.46	2645	0
2	400	50	1345	599	1.17	2195	140
3	400	50	1395	444	0.99	1725	260
4	400	50	1445	268	0.83	1080	380

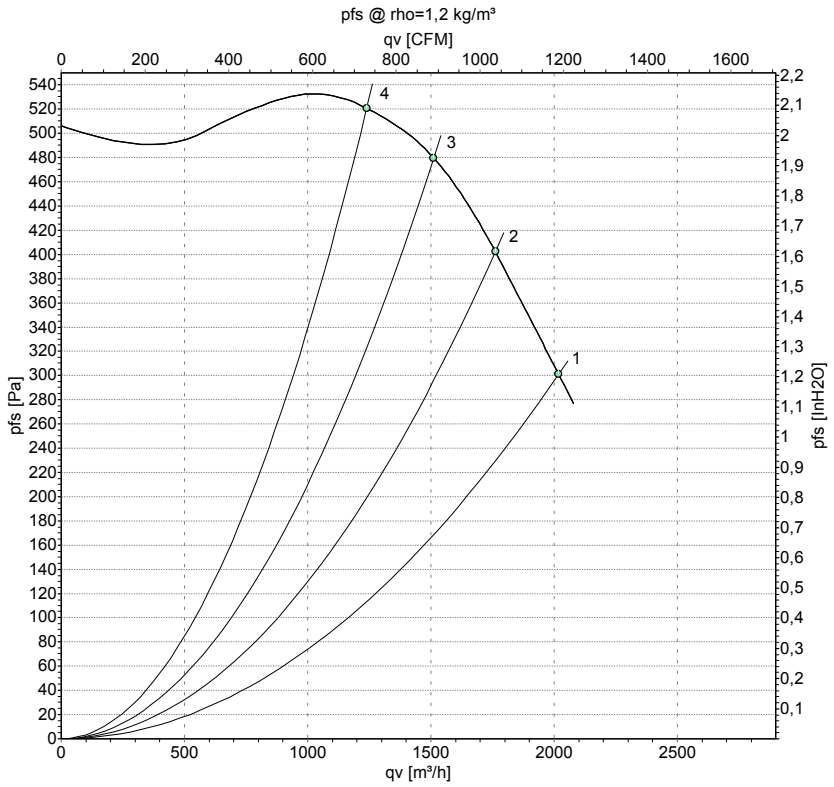
U = Supply voltage · f = Frequency · n = Speed · P_e = Power input · I = Current draw · qv = Air flow · p_{fs} = Pressure increase

AC centrifugal fan

forward curved, single inlet

with housing (large flange)

Charts: Air flow 60 Hz



Measurement: LU-56383

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	400	60	1560	700	1.24	2020	300
2	400	60	1600	603	1.09	1760	400
3	400	60	1650	490	0.93	1510	480
4	400	60	1680	396	0.81	1240	520

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