

AC centrifugal fan

forward curved, single inlet

with housing (flange)

G2D180-AE02-30 ebmpapst Datasheet

sales@fansco.com

www.fansco.com

Limited partnership · Headquarters Muldingen
County court Stuttgart · HRA 590344

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

Nominal data

Type	G2D180-AE02-30	
Motor	M2D068-GA	
Phase		3~
Nominal voltage	VAC	230
Connection		Δ
Frequency	Hz	50
Type of data definition		ml
Valid for approval / standard		CE
Speed (rpm)	min ⁻¹	2370
Power input	W	420
Current draw	A	1.12
Min. back pressure	Pa	300
Min. ambient temperature	°C	-25
Max. ambient temperature	°C	50
Starting current	A	1.66

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

		Actual	Request 2015			
01 Overall efficiency η_{es}	%	37.4	33.6	09 Power input P_e	kW	0.23
02 Measurement category		A		09 Air flow q_v	m ³ /h	430
03 Efficiency category		Static		09 Pressure increase p_{fs}	Pa	727
04 Efficiency grade N		47.8	44	10 Speed (rpm) n	min ⁻¹	2695
05 Variable speed drive		No		11 Specific ratio*		1.01

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

* Specific ratio = $1 + p_g / 100\,000\text{ Pa}$

LU-56385



AC centrifugal fan

forward curved, single inlet
with housing (flange)

Technical features

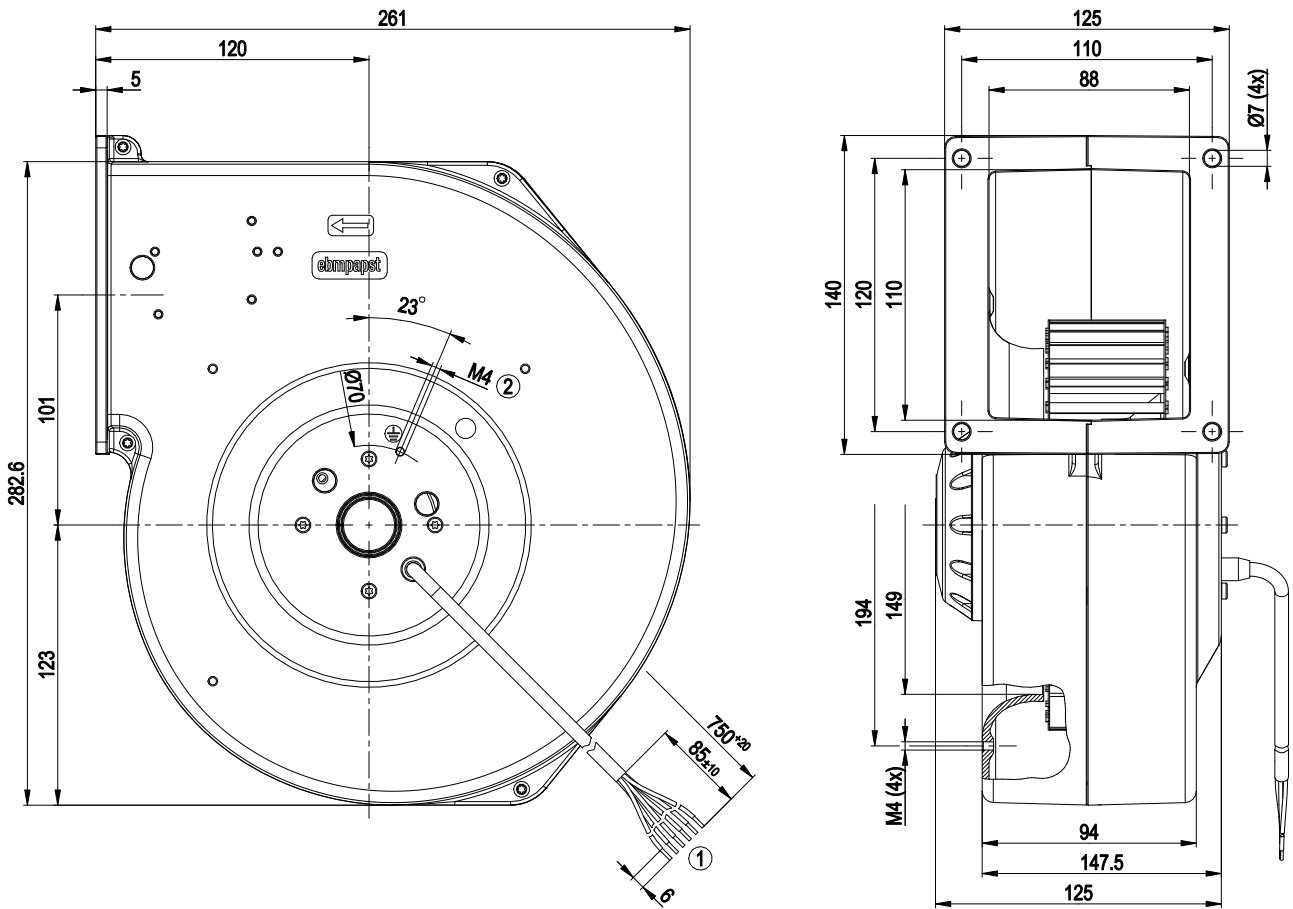
Mass	5.4 kg
Size	180 mm
Surface of rotor	Uncoated
Material of impeller	Sheet steel, galvanised
Housing material	Die-cast aluminium
Direction of rotation	Clockwise, seen on rotor
Type of protection	IP 44; Depending on installation and position
Insulation class	"F"
Humidity (F)/environmental protection class (H)	F1-1
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)	< 0.75 mA
Protection class	I (if protective earth is connected by customer at the connection point of the housing)
Product conforming to standard	EN 60335-1, motor does not have factory-installed overheating protection; CE



AC centrifugal fan

forward curved, single inlet
with housing (flange)

Product drawing



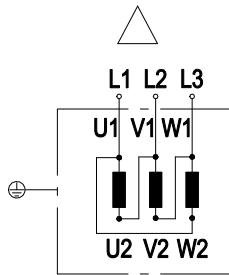
- 1 Connection line halogen and silicone-free 6x 0.5 mm², 6x lead tips crimped
- 2 Thread reach max. 4 mm



AC centrifugal fan

forward curved, single inlet
with housing (flange)

Connection screen



Δ	Delta connection	L1	= U1 = blue	L2	= V1 = black
L3	= W1 = brown	U2	white	V2	green
W2	yellow				

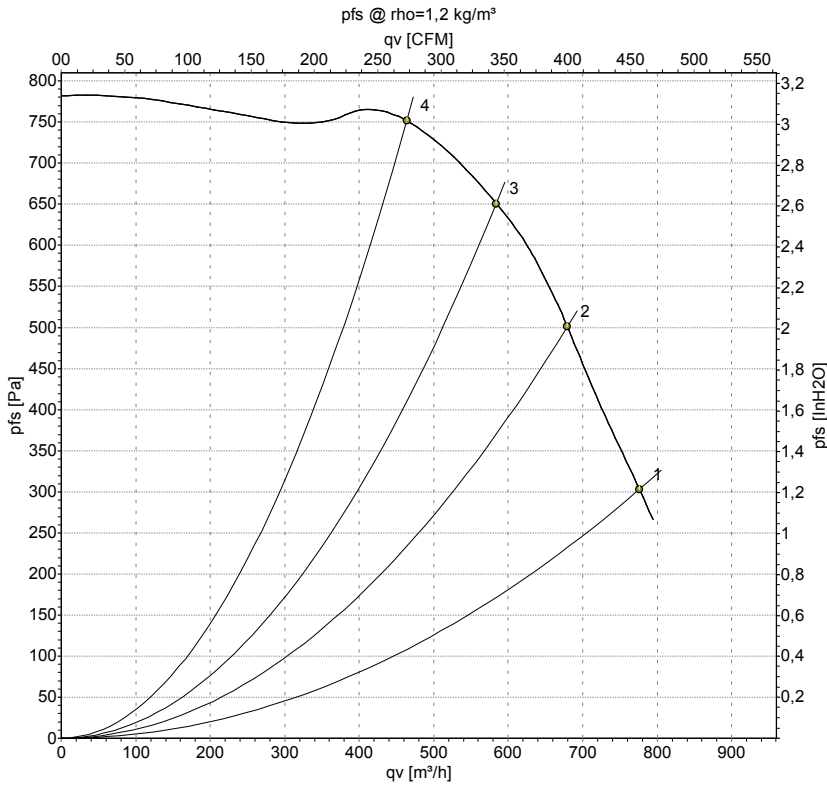


AC centrifugal fan

forward curved, single inlet

with housing (flange)

Charts: Air flow 50 Hz Δ



Measurement: LU-22378-1

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	q _v	P _{fs}	q _v	P _{fs}
		V	Hz	min ⁻¹	W	A	m ³ /h	Pa	cfm	inH2O
1	Δ	230	50	2370	420	1.12	775	300	455	1.20
2	Δ	230	50	2485	373	1.04	680	500	400	2.01
3	Δ	230	50	2580	321	0.91	585	650	345	2.61
4	Δ	230	50	2680	260	0.77	465	750	275	3.01

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

