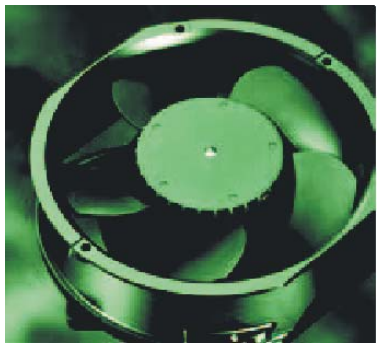
DV 6448 /2A – 05205

DC Diagonal Fan

Diagonal fan with DC drive. This DC drive employs an electronically commutated external rotor motor with high efficiency at low operating noise. The drive electronics is completely integrated in to the fan hub.



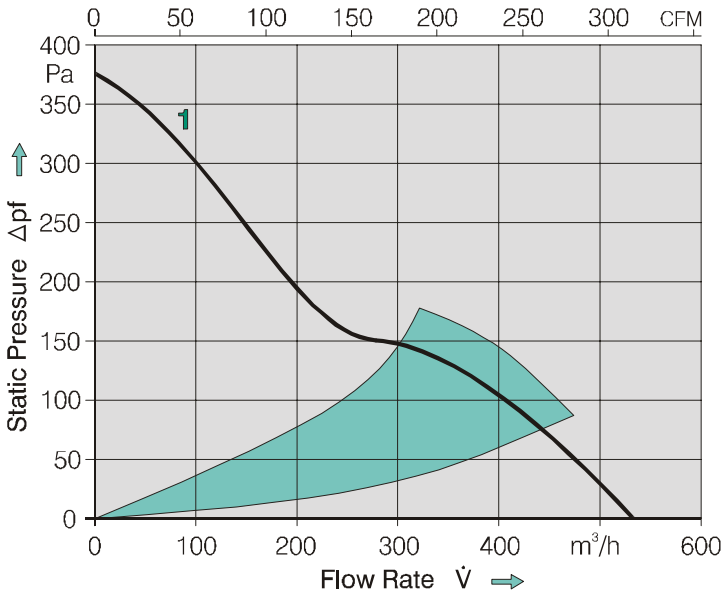
Features

- Low noise level through aerodynamically optimised housing and impeller.
- Electronic motor current limiting during start-up or blocking.
- Electronically safeguarded against incorrect polarity.
- Speed setting via external control voltage.
- Speed proportional open collector rectangular pulse signal for external speed monitoring.
- Extremely low EMI.
- Electrical connection via 4 leads and connector.
- Improved bearing system and mod. rotor for high ambient conditions regarding shock and vibration
- M4 tapetite screws w. screw varnish
- M4 inserts on mounting holes

Technical Data

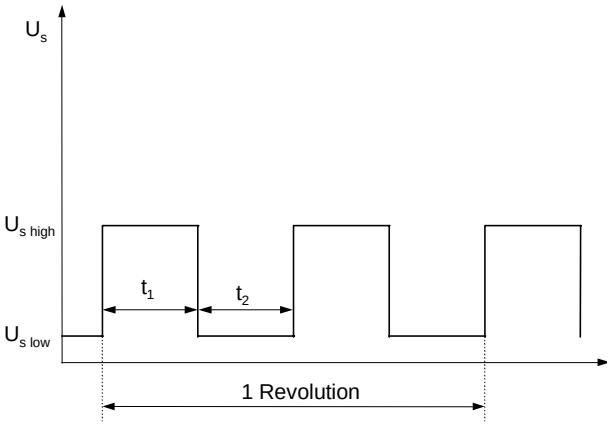
		nom.
Nominal Voltage	V DC	48
Voltage Range	V DC	36...72
nom. Speed	min^{-1}	4.300
Max. flow rate	m^3/h	530
Max. flow rate	CFM	312
Noise free air	dB(A)	65
Current consumption	mA	875
Power consumption	W	47
Perm. Ambient temperature at max. voltage.	°C	-20 ... +60
Service life L15 at45 °C	h	105.000
Approvals		CSA, UL, VDE
Bearing system		Ball bearings

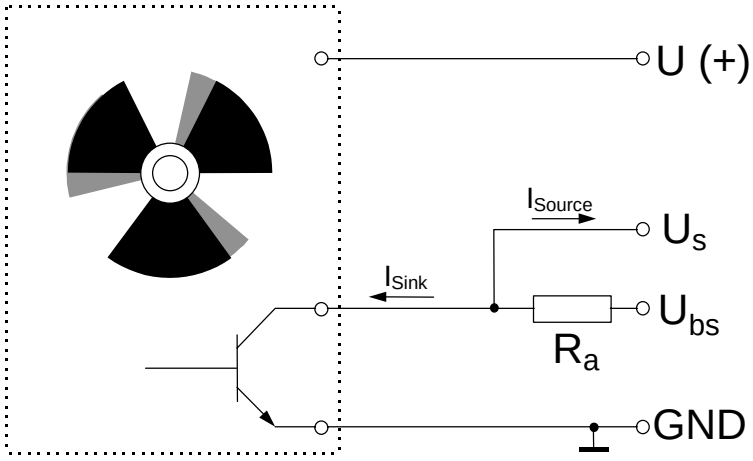
All data are average figures at nominal voltage. Subject to technical change.



For dimensions and electrical connection see separate drawing #9695405205.

Tacho Output Signal:





U (+) = supply voltage (+)
U_s = tacho signal
U_{bs} = supply voltage tacho signal
GND = ground (-)
Ra = external pull up resistor

$$R_a = \frac{U_{bs} - U_{slow}}{I_{sink}}$$

Output	2 pulse per revolution
U_{bs}	4 .... 30 DC
$U_{s\ high}$	30 V DC @ I_{source} = 0 mA
$U_{s\ low}$	≤ 0,4 V DC @ I_{sink} ≤ 20mA
$I_{sink\ max}$	≤ 100 mA
t_1 / t_2	0,8 - 1,2

Speed Control:

Speed Setting via external control voltage 0-10 VDC.
Speed tolerance +/-7.5% referring to the max. speed.

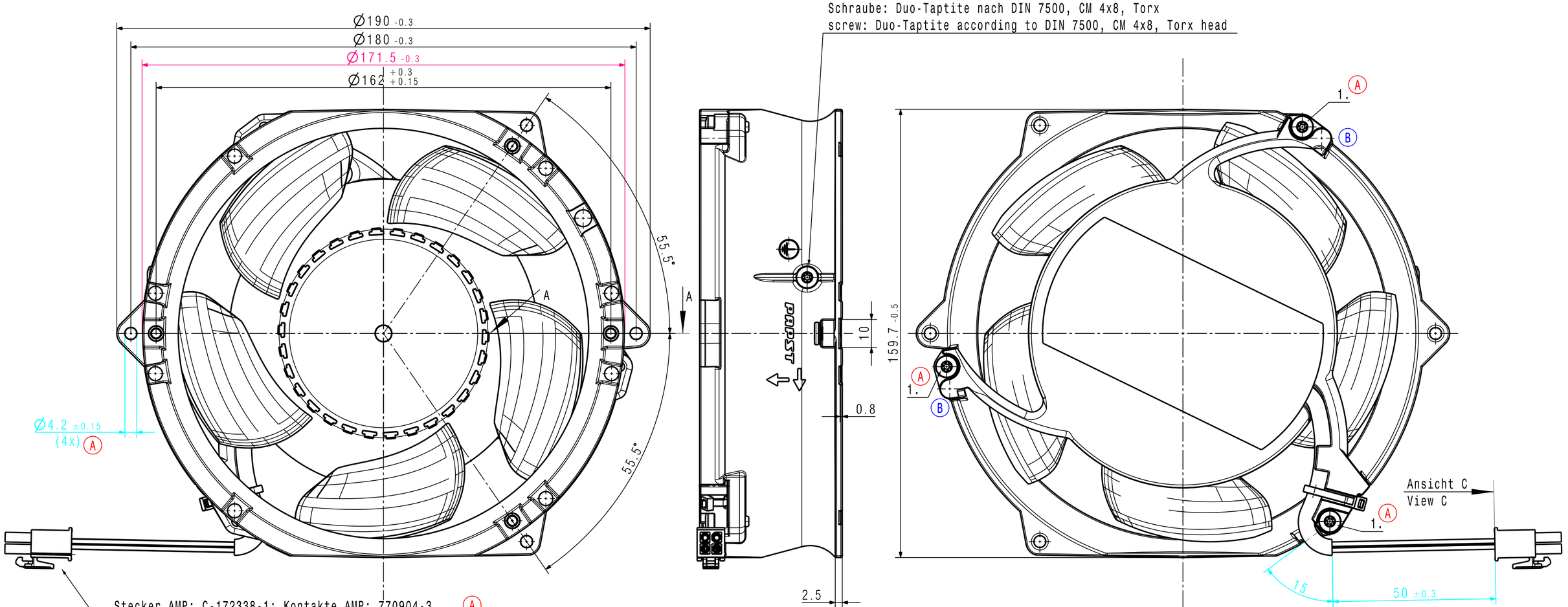
Control Voltage	Fan Speed
0 VDC	0 rpm
5 VDC	1880 rpm
10 VDC	4300 rpm

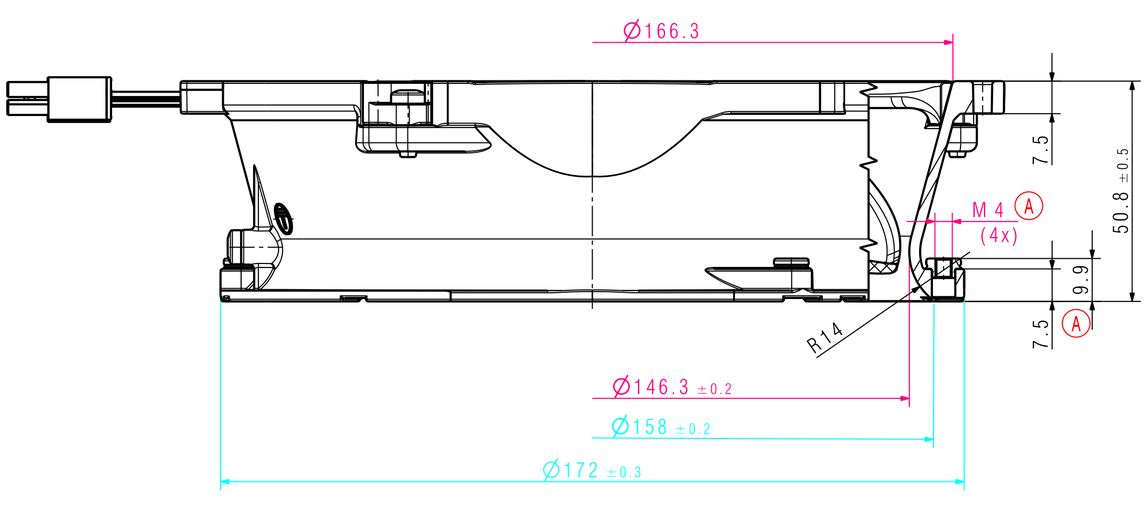
Electrical connection via 4 leads:

Pin assignment, AMP connector, housing: C-172338-1, terminals: 770904-3:
Pin 1: White: tachometer output
Pin 2: Blue: GND
Pin 3: Violet: speed control input
Pin 4: Red: +48VDC

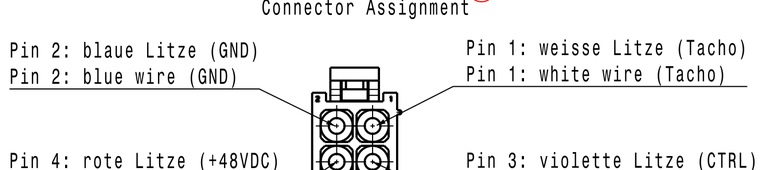
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Schutzvermerk nach DIN ISO 16016 beachten!
Refer to protection notice DIN ISO 16016!





Ansicht C A
Steckerbelegung
View C A
Connector Assignment



1. hier Schraubensicherungslack aufgetragen A
   Taptiteschrauben mit "Spedcaps"-Beschichtung
1. here coated with screw sealing varnish
   Taptitescerews with "Spedcaps"-coating A

B	108143	13.09.2005	A.Fleig	SAP-Status/State	FR
Index/ Index	Aend.-Nr./ Change-No.	Datum/ Date	Name/ Name		

	Datum	Name
Bearb./ Drawn	22.02.2005	F. Rojo
Gepr./ Checked	13.09.2005	S. Seidler
Freig./ Releas.	13.09.2005	S. Seidler

Tolerierung / Tolerances: DIN 7167
Allgemeintoleranzen / Gen. Tolerances: DIN ISO 2768 mK-E

ebmpapst
ebm-papst St.Georgen GmbH & Co KG

Werkstoff/ Material:	XXXXXXX		
Volumen/ Volume:	271000 mm³	Gewicht/ Mass (kg):	0,934 kg
Betriebsmittelbezeichnung / Name of Equipment:	XXXXXXX		
Artikel / Title:	Masszeichnung		
Zchg.-Nr./ Drawing No:	9695405205		
Ers.f.Zchg./ Replaces:	SK6001053904	Format/ Size:	A2

Massstab/Scale 1:1 (·/·)
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