4118 N/2P-215 DC Axial Fan

Axial fan for DC operation with an additional tacho output signal, and PWM speed control input. Driven by an electronically commutated external rotor motor. Electronic commutation system is completely integrated into the motor hub.



Features

- Electronically protected against reverse polarity, overloading and locking.
- Tacho output signal.
- Speed controllable by PWM input.

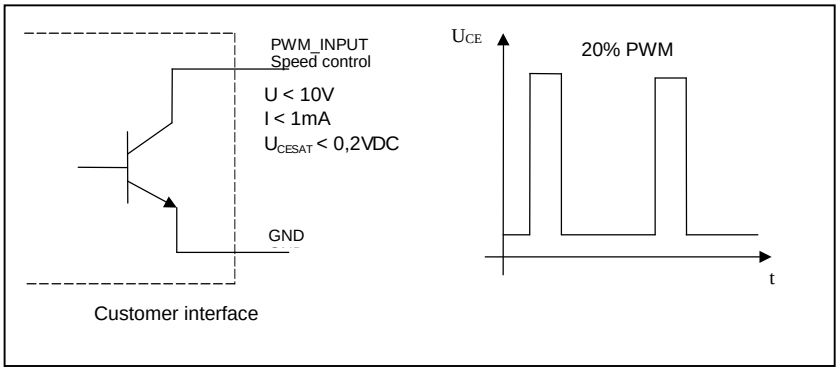
General Data

Nominal voltage	V DC	48
Voltage range	V DC	36 - 57
Nominal speed	rpm	3200
Max. flow rate	m^3/h	166,7
Max. flow rate	CFM	98,05
Current consumption	mA	105
Power consumption	W	5,0
Permanent ambient temperature at max. voltage	°C	-33 ... +55
Service life (40 °C)	h	85.000
Approvals		UL, VDE, CSA, CCC
Fan housing / impeller		Metal / PA 6.6
Bearing system		Ball bearings
Mass	g	390

All technical data are mean values at nominal conditions. Subject to change.

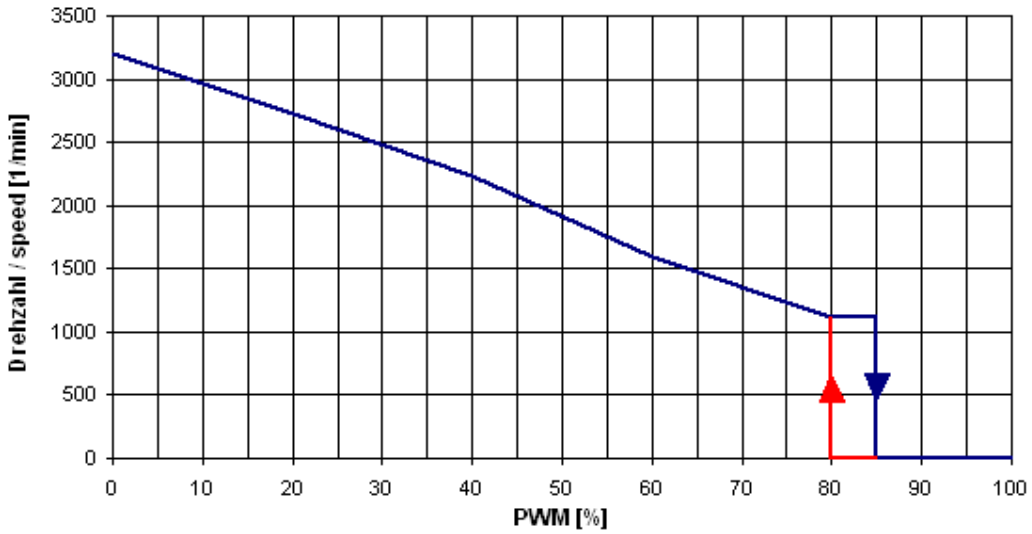
For details of electrical connection and dimensions, see separate drawing # 9694300215.

PWM input signal: open collector (f = 2-5 kHz)

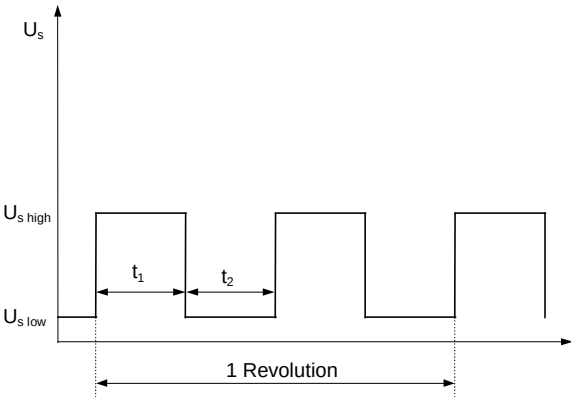


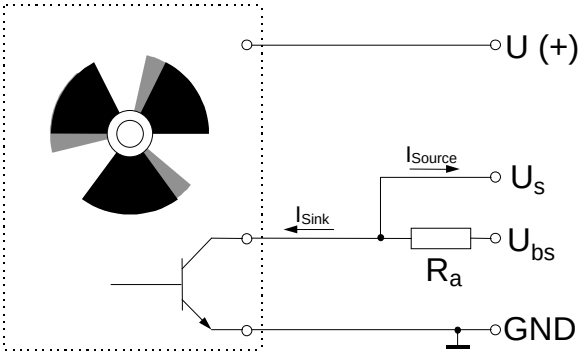
Speed-PWM

PWM [%]	Speed [rpm]
0	3,200
20	2,700
40	2,150
60	1,650
80	1,100
100	0



Tacho Output /2:





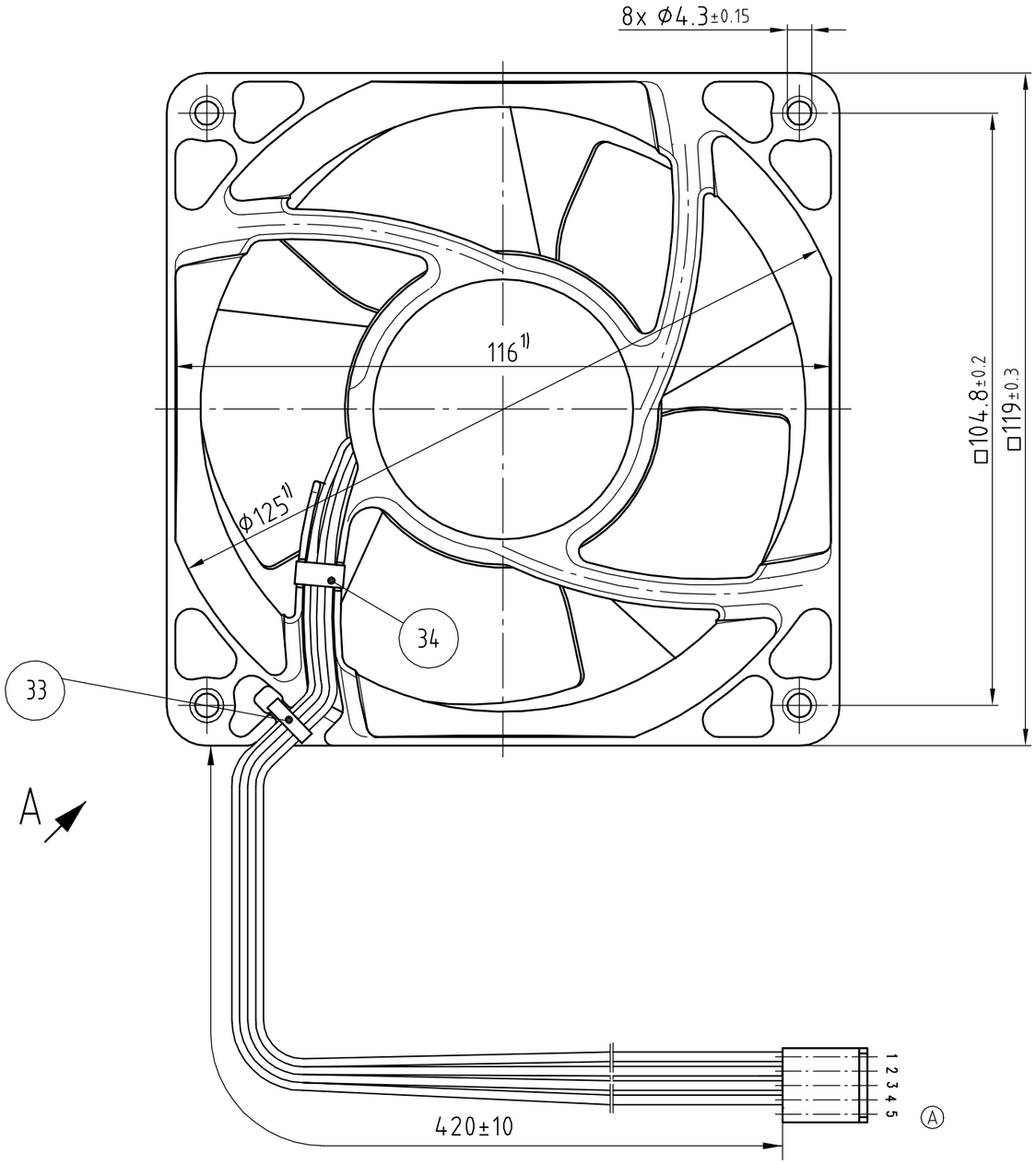
U (+) = Supply Voltage (+)
U_s = Tacho Output
U_{bs} = Tacho Supply Voltage
GND = Ground
Ra = External Pull-Up Resistor

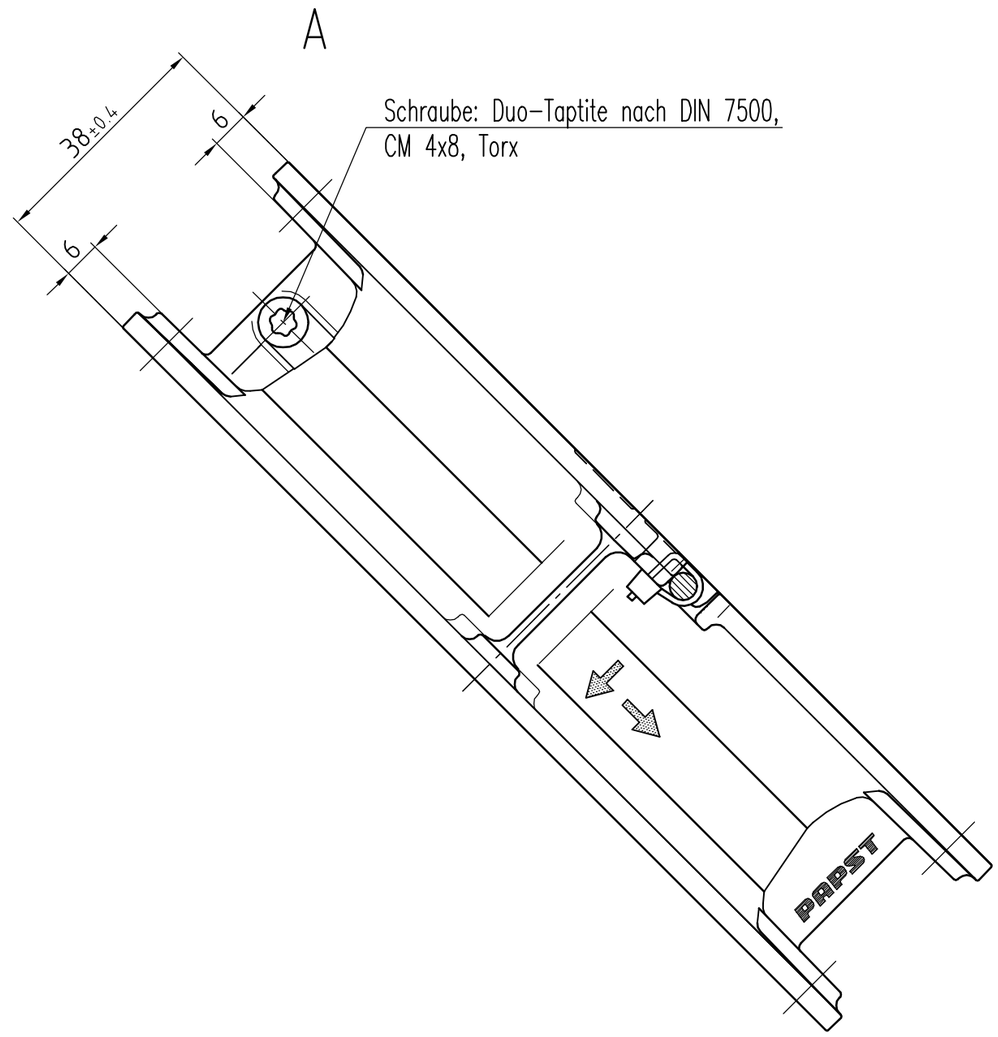
$$R_a = \frac{U_{bs} - U_{slow}}{I_{sink}}$$

Output	2 pulses per revolution
U_{bs}	57 V DC
$U_{s\ high}$	57 V DC at I_{source} = 0 mA
$U_{s\ low}$	≤ 0,4 V DC at I_{sink} = 1 mA
$I_{sink\ max}$	≤ 2 mA
t_1 / t_2	0,8 - 1,2

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Schutzvermerk nach DIN ISO 16016 beachten





1) = Maße für Montagewand

- Pos.33 nur wenn in Stückliste enthalten
- Axialspiel: Mit Feder spielfrei verspannt

Steckergehäuse	Steckerbelegung:
22-01-3057	1=+RD
Kontakt	2=-BU
08-55-0101	3=PWM input : VT
von Molex	4=RPM output : WH
	5=frei

Tolerierung: DIN 7167
Allgemeintoleranzen: DIN ISO 2768-mK-E

AutoCAD 2002

	Datum	Name
Bearbeitet	12.05.2006	HAASA
	A	000000109439
	Index	Aend.-Nr.

Geprueft u. zur Verwendung freigegeben von KOLETZKI am 19.05.2006

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Artikel: Axiallüfter
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Zchg.-Nr.: 9694300215
Blatt: 002
Ers.f.Zchg.:
A3

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