

## 6424/2H-345 DC Axial Fan

Axial fan with DC drive. This DC drive employs an electronically commutated external rotor motor with high efficiency. With integrated open collector tacho output for speed monitoring. Drive electronics is completely integrated into the fan hub.



### Features

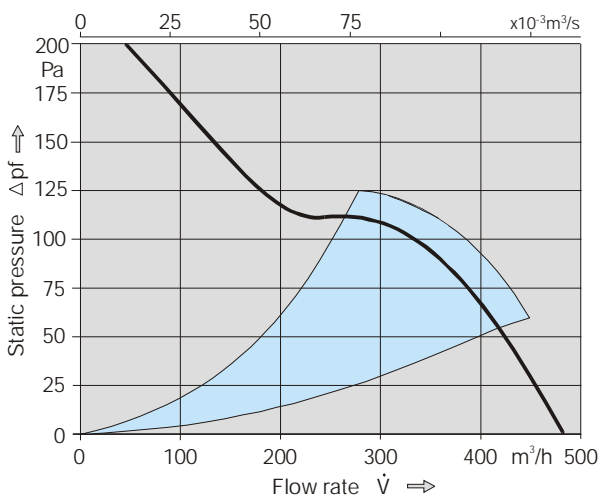
- Low noise level through aerodynamically optimised housing and impeller.
- Electronic motor current limiting during start-up or locking. Continuous locking protection
- Electronically safeguarded against incorrect polarity.
- Extremely low EMI.
- Electrical connection via 3 leadwires AWG22, 178mm long and connector. (Supply voltage=red, GND=blue, Tacho Output=white).

### Technical Data

Nominal Voltage	V DC	24
Voltage Range	V DC	12 ... 28
Nominal Speed	rpm	4000
Max. flow rate	m <sup>3</sup> /h	480
Max. flow rate	CFM	282,5
Noise free air	dB(A)	63
Noise in opt. Operating range	bels	7,1
Current consumption	mA	1085
Power consumption	W	26
Perm. Ambient temperature at max. voltage.	°C	-20 ... +72
Service life (T <sub>Max</sub> )	h	30.000
Service life (40 °C)	h	65.000
Approvals	CSA, UL	
Fan housing/ impeller	Metal/ PA 6.6	
Bearing system	Ball bearings	
Mass	kg	0,760

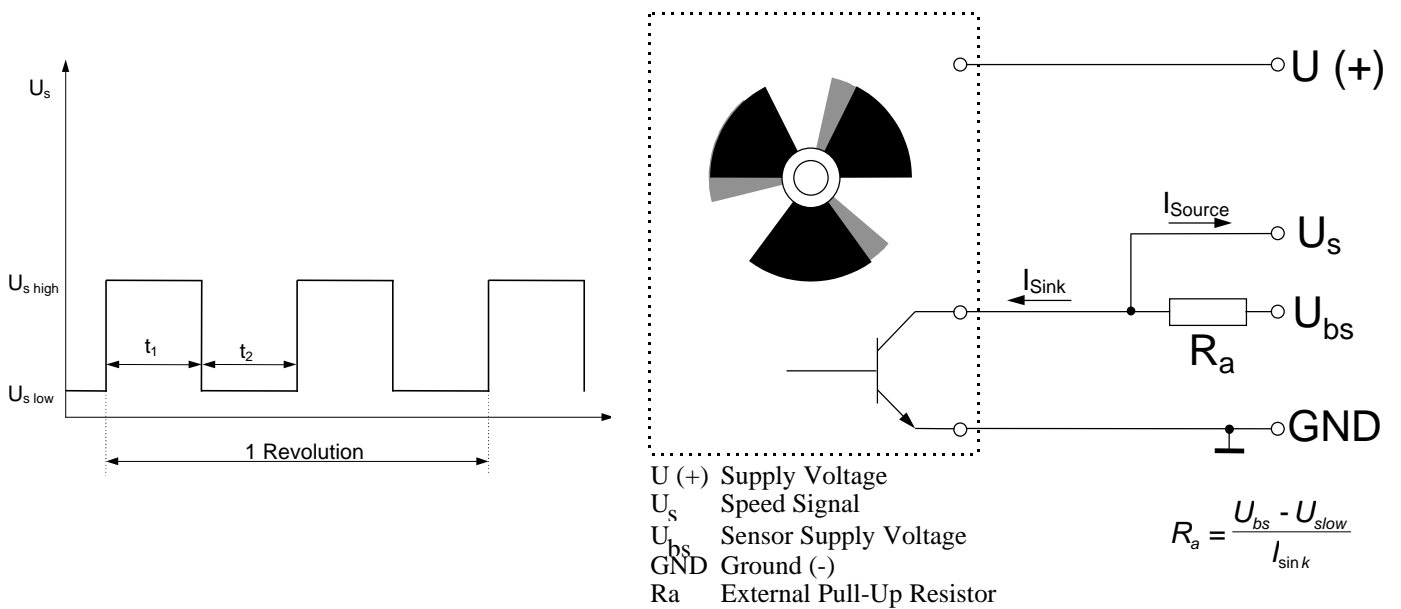
All data are mean values at nominal voltage.

Subject to technical change.



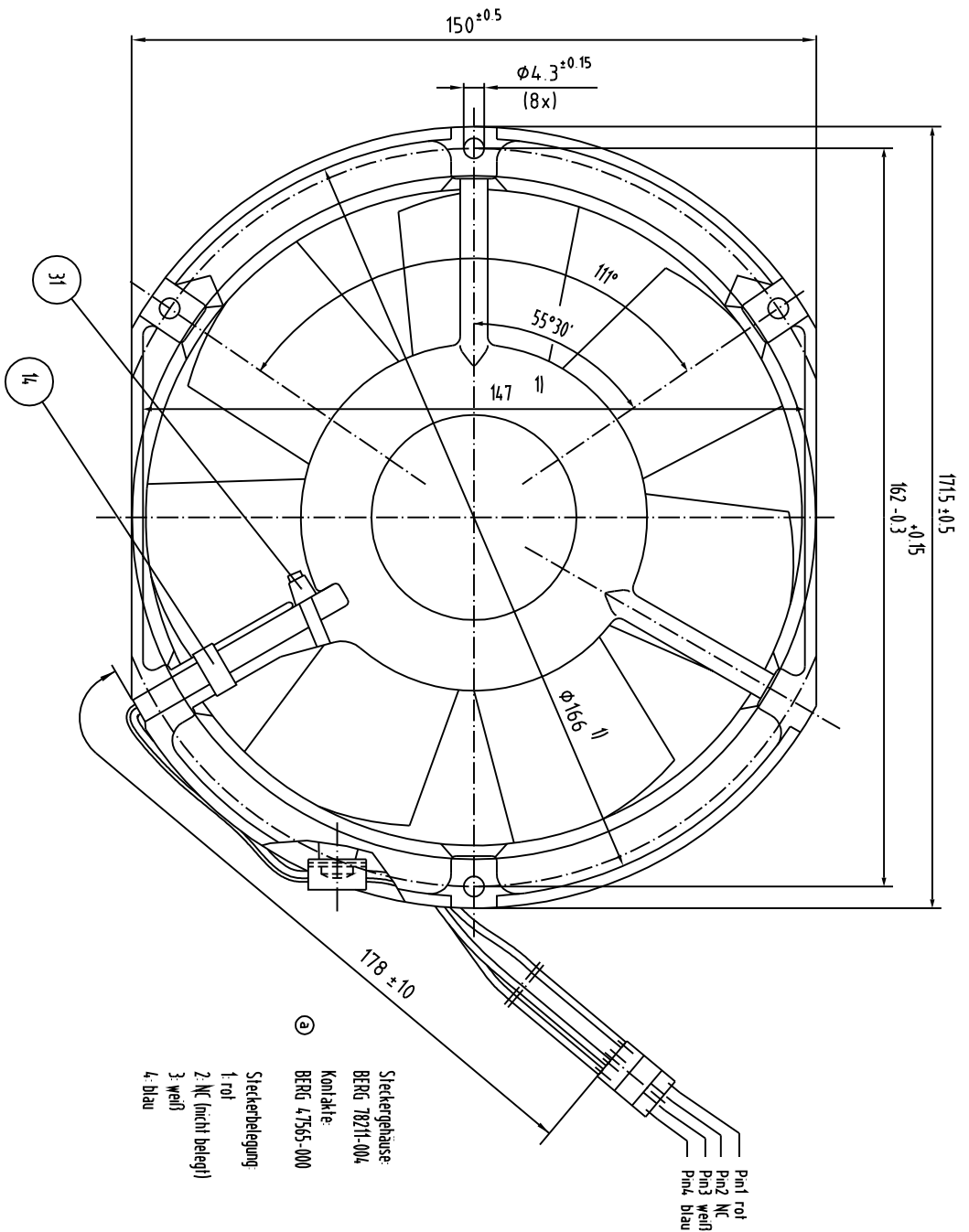
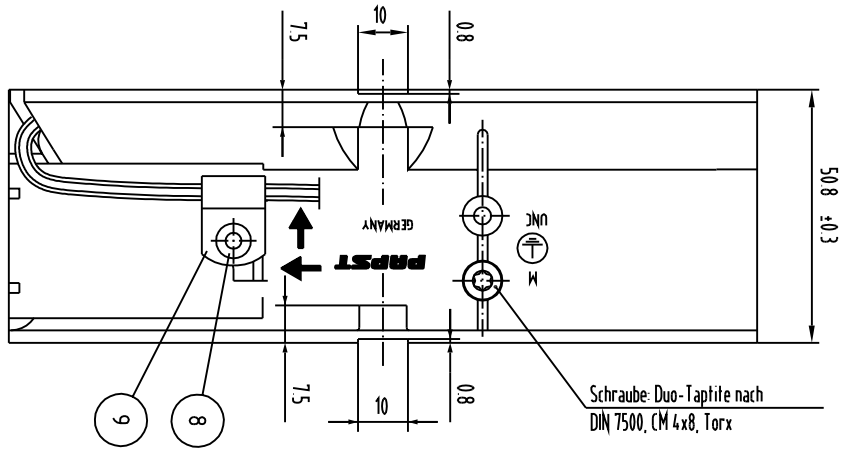
For dimensions and electrical connection see separate drawing # 9295414345.

## Tacho Signal "/2"



Output	2 pulses per revolution
$U_{bs}$	4...24 V DC
$U_{s \text{ high}}$	4...24 V DC at $I_{source} = 0 \text{ mA}$
$U_{s \text{ low}}$	$\leq 0,4 \text{ V DC}$ at $I_{sink} = 2 \text{ mA}$
$I_{sink \text{ max}}$	$\leq 20 \text{ mA}$
$t_1 / t_2$	0,8 - 1,2

$$f = 2 \cdot n / 60 \text{ Hz}$$



Steckgehäuse:  
BERG 7821-004  
Kontakte:  
BERG 47565-000

Steckerbelegung:  
1: rot  
2: NC (nicht belegt)  
3: weiß  
4: blau

1) Maße für Montagewand

Axialspiel mit Feder spielfrei verspannt

516  
210  
232  
235  
240

Allgemeindaten		DIN ISO 2768 -mK- E		Artikeld	
Tolerierung DIN 7167		Baum		Name	
		Engel W.		Engel W.	
		Dahm		Seidler S.	
		Engel W.		Seidler S.	
Zur Verwendung an Verteiler freigegeben von Seidler S an ZL 0200		PPSST D-8102 St. Leonen Germany		Zug-Nr. 929 5414 345	
		K: A19295AA		345-20MG	
		1:1		Blatt 2	