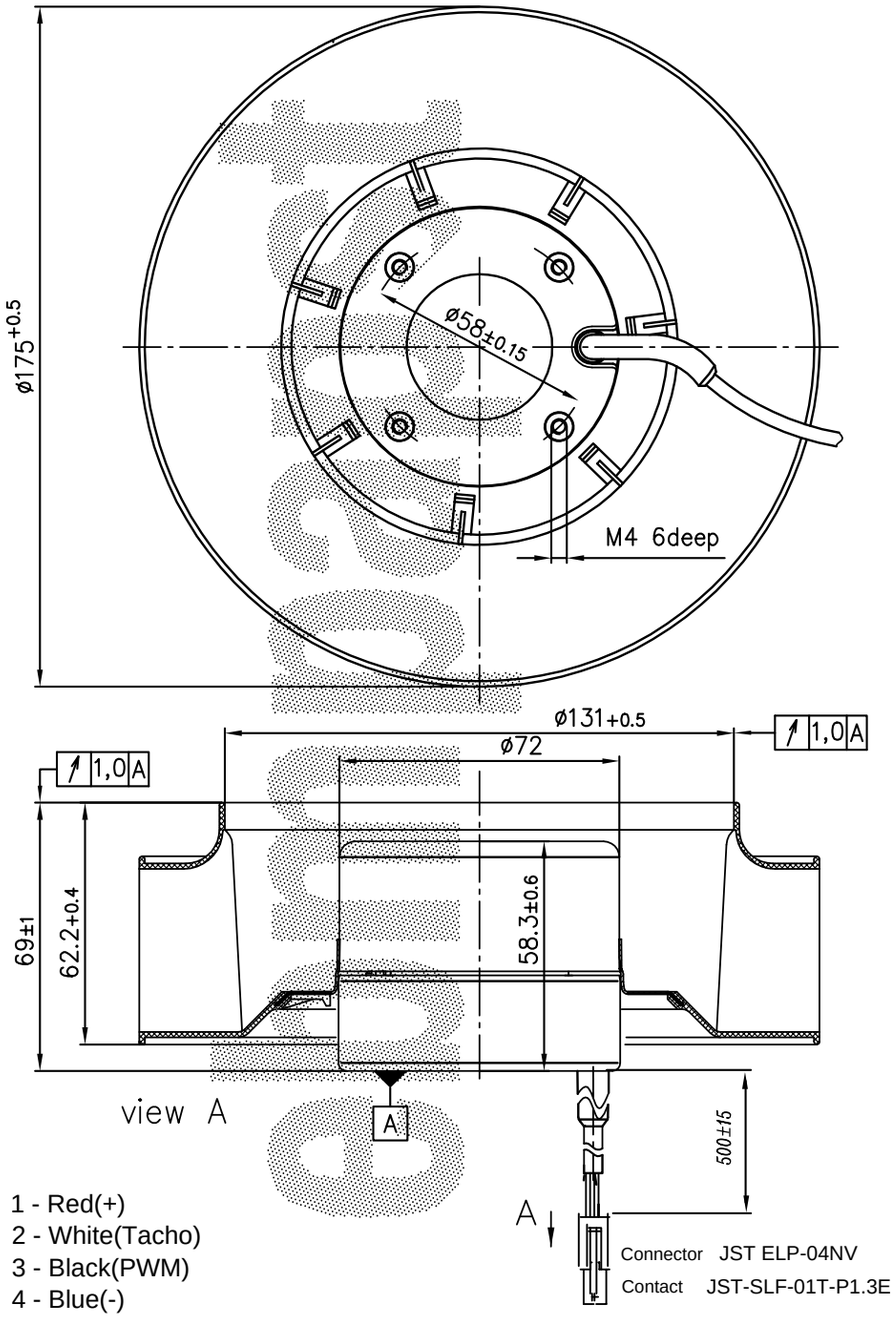


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ebm-papst Mulfingen GmbH & Co. KG

Delivery Specification

Unit: Centrifugal fan single inlet — Type: R1G175-AB15-65/A02

Motor: DC-motor

Motor Type: M1G055-BD..-..

TYPE	voltage V-	voltage range (V-)	power consumption W	power output W	current consumption A	air volume m³/h	static pressure Pa	speed min⁻¹	start-up torque Ncm	nominal torque Ncm	noise level dBA	capacitor µF	capacitor VDB
R1G175-AB15-65/A02	48	36-57	34		0,85	565	0	3100					

Winding layout No.:

Insulation class: B — Mode of operation: S1

Permissible ambient temperature: -25°C - +70°C — Operating life: L10 40°C > 60.000h

Winding protection: pole- and blocking protection

Data plate: printed — Type: R1G175-AB15-65/A01

48 V- (36-57 V-) DC 34 W 3100 min⁻¹

High-voltage test with 900 VAC/ 2s

Electrical connection: connecting cable AWG20-300V, 4-leads

with connector JST ELP-04NV

with contact JST-SLF-01T-P1.3E

Material/surface treatment: rotor varnished black without condensation drain hole

impeller: plastic PA 6.6 25GV-94-VO, circular blank KTL coated

PCB encapsulated and stator stack moisture protection

Bearings: ball bearing

Direction of rotation: clockwise — looking at rotor side

Airflow direction:

Balancing grade: G6,3 according DIN ISO 1940 — Protection class: IP44 in accordance with EN 60034-5

Mounting position: any — Approx. weight per unit: 0,85 kg

Wiring diagram:

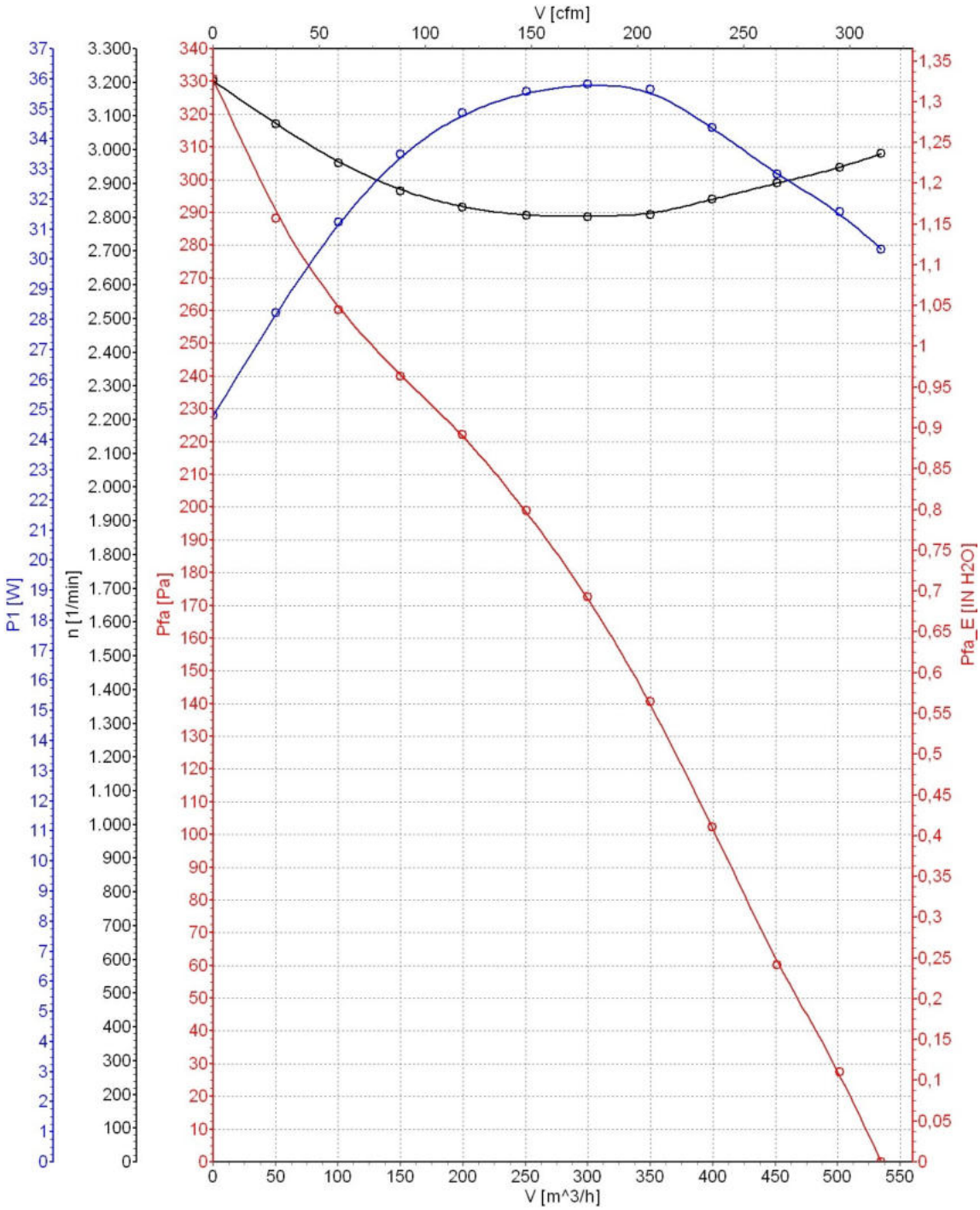
see interface No. 48374-5-9770
stating current: max. 4A
locked motor current <50mA pulsing
temperature range for storage: -25°C - +70°C
permissible humidity for the storage: no condensation permitted
RoHS-compliant

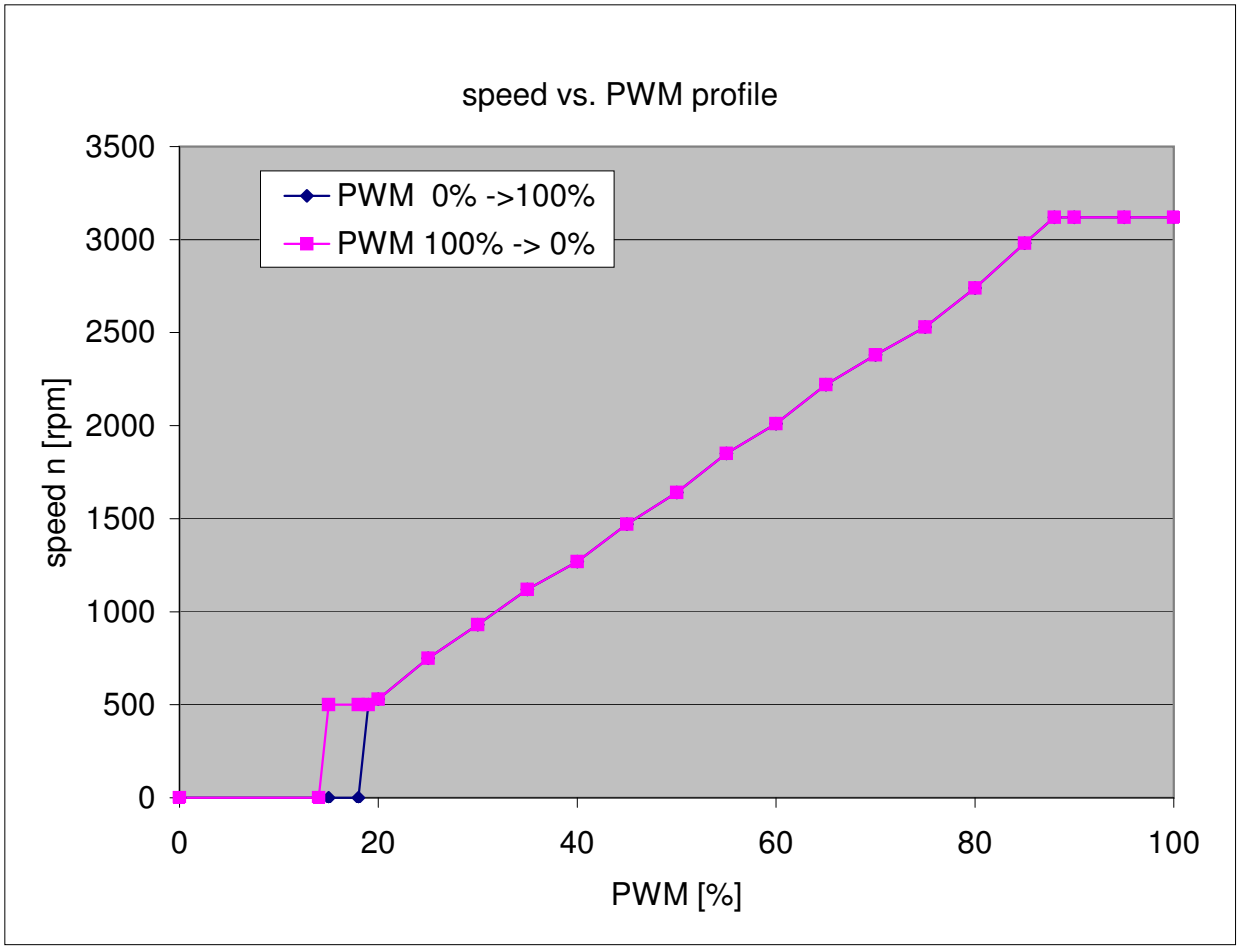
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Performance testing of fans

Installationskategorie A nach ISO 5801, DIN 24163, DIN EN ISO 5167-1

IdNo	Type	M-No.	U[V]	F[Hz]	C[uF]	Sample	Level	Linetype	Remark
121336	R1G175AB1565-02A	12452	48						




speed vs. PWM profile
PWM 0% ->100%
PWM 100% -> 0%
speed n [rpm]
3500
3000
2500
2000
1500
1000
500
0
0
20
40
60
80
100
PWM [%]