IP68 Fans from ebm-papst

Highest protection against harsh environments.

ebmpapst

The engineer's choice





About ebm-papst North America







Headquarters - Farmington, CT

- 250,000 square feet
- 275 employees
- Contract manufacturing
- Acoustic testing chamber
- Complete air testing lab on site
- ISO 9001 and ISO 14001 certifications
- Distribution centers in Farmington, CT and Toronto, Canada

ebm-papst is an innovator and market leader in fans, blowers, and motors with core competencies in motor technology, aerodynamics, and electronics. With over 15,000 products, we provide solutions to a wide range of markets including Air-conditioning and Ventilation, Appliance, Commercial Refrigeration, Heating, Industrial, Lighting, IT / Telecom, Medical, Transportation and more.

Support when and where you need it

Knowledgeable field sales professionals are close by for face-to-face meetings. Dedicated inside sales associates fulfill all of your ordering needs. To assist you with order management, our Customer Relations department provides automated services such as shipment notifications, reorder notifications, and invoicing.

Design and manufacturing

Beginning with the initial product concept, our application engineers work in tandem with customers to select the best air moving solution to suit specific goals and requirements. Once the prototype has been established, it can then be tested in our state-of-the-art airflow testing chambers to optimize performance. Each chamber has been designed to meet AMCA 210 and ISO 5801 requirements. In addition to our airflow testing capabilities, ebm-papst can conduct comparative sound, temperature, and velocity tests. The electrical engineering team can design everything from simple fan controllers for monitoring fan speed to complex controllers and power supplies, filtering, and specific communication protocols.

Logistics and inventory management programs

Our facilities feature over 90,000 square feet of climate-controlled warehousing, and utilize bar coding for real-time inventory management. Supply chain management programs such as Kanban, demand/pull, safety stock, consignment, and local warehousing can be customized to your needs.

Sustainability is the center of our GreenTech philosophy

Eco-friendliness and sustainability have always been at the core of our thoughts and actions. For decades, we have worked according to the simple but strict creed of our co-founder Gerhard Sturm: "Each new product we develop has to be better than the last one in terms of economy and ecology." GreenTech is the ultimate expression of our corporate philosophy.

The symbol of our commitment

Our company philosophy encompasses much more than designing new and more efficient fans and blowers; we put it into practice daily - in our offices and factories around the world! GreenTech symbolizes our continuous commitment, achievements, and passion to provide customers with the highest quality products using modern development and production methods, responsible business practices and initiatives that benefit the user as well as the environment.

GreenTech is eco-friendly production

Our GreenTech philosophy drives our product development, upholding the most stringent energy efficiency and environmental standards. Our production processes incorporate GreenTech practices including intelligent use of industrial waste heat and groundwater cooling, photovoltaics and our own cooling and ventilation technology. Our most modern plant consumes 91% less energy than required. From their origin to their recyclable packaging, our products contribute to the protection of the environment.

GreenTech is pro-active development

Even in the design phase, the materials and processes we use maximize the greatest possible eco-friendliness, energy balance and — wherever possible — recyclability. We work to continually improve the material components and performance of our products, as well as enhancing the airflow, decreasing noise characteristics and significantly reducing energy consumption.

Our customers profit from this every day

The heart of GreenTech is our EC technology. At the core of our energy-saving motors and fans, EC technology provides up to 90% efficiency, significantly extends service life and makes our products maintenance-free. These values pay off for the environment as well as offer cost-savings for the user! All ebm-papst products feature the greatest possible connection of economy and ecology.



Ingress Protection (IP) is a standard protection rating on electrical enclosures that defines the degree of protection provided against intrusion by solids (fingers, dust, etc.) and liquids. The importance of an IP68 rating on ebm-papst products is to ensure the highest level of protection of the electronics inside the enclosure against foreign objects and water, while also protecting the user against potentially harmful contact.

Ingress Protection at a glance

Ingress protection is the level of protection against the intrusion of solid objects, liquids, dust, and accidental contact with electrical enclosures inside a mechanical casing. This rating gives users a more detailed understanding of general terms such as waterproof or water-resistant.

The numerical digits represent conformity with the conditions outlined in the table below. For example, an electrical enclosure rated IP68 is completely protected against dust and can not be damaged or become unsafe during permanent immersion in water (to a depth greater than IPX7 which is to be defined between ebm-papst and the end user).

Applications and target markets

Environmentally protected cooling solutions are highly beneficial to applications within the Alternative Energy, Appliance, Commercial Refrigeration, Heating, IT/Telecom, LED/Lighting and Transportation markets.

IP68 protection may be available beyond what is listed in this brochure. Please contact our application engineers for more information at sales@us.ebmpapst.com

IPXX Defined IP: Ingress Protection First Digit: Rating of protection against solid objects Second Digit: Rating of protection against liquids



*IP20 protection - for indoor (clean/dry) applications where no additional protection for motor (electronics or windings) is required.



*IP68 protection - the motor (electronics and windings) are completely encapsulated

Rating	Solid Protection (first digit)	Rating	Liquid Protection (second digit)
0	No protection	0	No protection
1	Protection against objects > 50mm (hands)	1	Protection against dripping water or condensation
2	Protection against objects > 12mm (fingers)	2	Protection against water spray 15° from vertical
3	Protection against objects > 2.5mm (tools/wires)	3	Protection against water spray 60° from vertical
4	Protection against objects > 1mm (small tools)	4	Protection against water spray from all directions.
5	Protection against dust, limited ingress	5	Protection against low pressure jets of water
6	Complete protection against dust	6	Protection against high pressure water jets and heavy seasons
		7	Protection against the effects of immersion (6in- 3.3ft)
		8	Protection against permanent immersion
	*Enlarged view of IP68 encapsulation area.		





Series 600 NU 60 x 60 x 25 mm

Highlights:

- Motor protection against reverse polarity and locking.
- Air exhaust over struts
- Connection via 310 mm strands AWG 22, TR 64, bared and tin-plated
- Ingress protection rating of IP68

Material: Housing: Fiberglass-reinforced PBT composite Impeller: Fiberglass-reinforced PA composite

Direction of rotation: Clockwise, seen on rotor





DC axial fans

Series 630 U 60 x 60 x 25 mm

Highlights

24 18...28 44

- Motor protection against reverse polarity and locking.
- Air exhaust over struts
- Connection via 310 mm strands AWG 22, TR 64, bared and tin-plated
- Ingress protection rating of IP68

Material: Housing: Fiberglass-reinforced PBT composite

Impeller: Fiberglass-reinforced PA composite

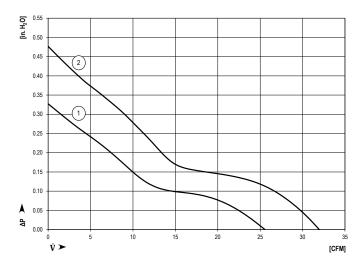
Direction of rotation: Clockwise, seen on rotor

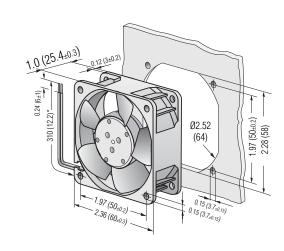
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Yes

Nominal Data	Air flow	Nominal voltage	Voltage range	Sound pressure level	Sound power level	Ball bearings	Power input	Speed	Temperature range	Mass	Ingress Protection Rating	UL Approval	Curves		Nominal Data		ANOTHER TOP	Nominal voltage	Voltage range	Sound pressure level	Sound power level	Ball bearings	Power input	Speed	Temperature range
Туре	CFM	VDC	VDC	dB(A)	Bel(A)		Watts	RPM	°C	g					Туре	CI	М	VDC	VDC	dB(A)	Bel(A)		Watts	RPM	°C
612 NHU-181	25.3	12	815	37	5.3	Yes	1.8	5600	-2070	66	IP68	Yes	1		632 NU	23	.5	12	615	34	5.1	Yes	1.8	5900	-2070
614 NHU	25.3	24	1826	37	5.3	Yes	2.1	5600	-2070	66	IP68	Yes	1		634 NU-004*	23	.5	24	1230	34	5.1	Yes	1.6	5900	-2070
614 NHHU-286	33.0	24	1826	41	5.7	Yes	2.9	6850	-2070	66	IP68	Yes	2		632/2HPU	25	.9	12	1113	35	5.4	Yes	1.5	6300	-2070
															634 HHU	34	.1	24	1828	44	6.1	Yes	3.2	8500	-2070

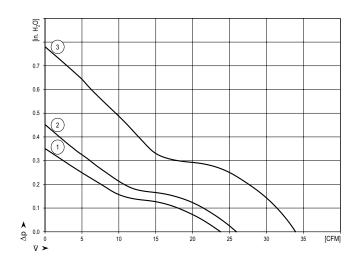
Curves

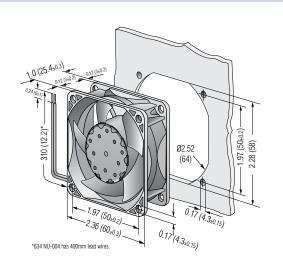




Curves

634/2HHPU





70

70

70

70

3.2 8500 -20...70 70

IP68

IP68

IP68

IP68

Yes

Yes

Yes

Yes

Yes





Series 8400 NU 80 x 80 x 25 mm

Highlights

- Motor protection against reverse polarity and locking.
- Air exhaust over struts
- Connection via 310 mm strands AWG 24, TR 64, bared and tin-plated
- Ingress protection rating of IP68

Material: Housing: Fiberglass-reinforced PBT composite Impeller: Fiberglass-reinforced PA composite

Direction of rotation: Counterclockwise, seen on rotor





DC axial fans

Series 8300 U 80 x 80 x 32 mm

Highlights

- Motor protection against reverse polarity and locking.
- Air exhaust over struts
- Connection via 310 mm strands AWG 22, TR 64, bared and tin-plated
- Ingress protection rating of IP68

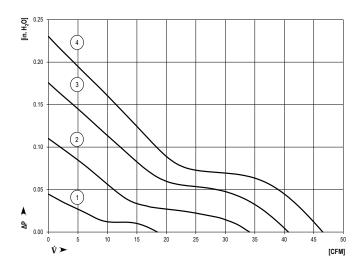
Material: Housing: Fiberglass-reinforced PBT composite

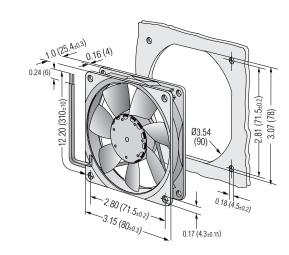
Impeller: Fiberglass-reinforced PA composite

Direction of rotation: Clockwise, seen on rotor

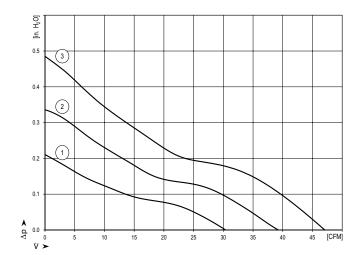
Nominal Data	Air flow	Nominal voltage	Voltage range	Sound pressure level	Sound power level	Ball bearings	Power input	Speed	Temperature range	Mass	Ingress Protection Rating	UL Approval	Curves	Nominal Data	Air flow	Nominal voltage	Voltage range	Sound pressure level	Sound power level	Ball bearings	Power input	Speed	Temperature range	Mass	Ingress Protection Rating	UL Approval	Curves	
Туре	CFM	VDC	VDC	dB(A)	Bel(A)		Watts	RPM	°C	g				Туре	CFM	VDC	VDC	dB(A)	Bel(A)		Watts	RPM	°C	g				
8414 NLU	19.4	24	1828	17	3.7	Yes	0.8	1500	-2070	95	IP68	Yes	1	8314 U	31.8	24	1231.5	36	5.2	Yes	2.7	3300	-2075	210	IP68	Yes	1	
8414 NMU	34.1	24	1828	27	4.4	Yes	1.4	2600	-2070	95	IP68	Yes	2	8312 HLU	39.4	12	615	43	5.8	Yes	4.0	4200	-2075	210	IP68	Yes	2	
8412 NU	40.6	12	815	32	4.7	Yes	1.7	3100	-2070	95	IP68	Yes	3	8314 HU	47.1	24	1228	48	6.2	Yes	6.2	5000	-2065	210	IP68	Yes	3	
8414 NHU	46.5	24	1826	37	5.0	Yes	2.4	3600	-2065	95	IP68	Yes	4															

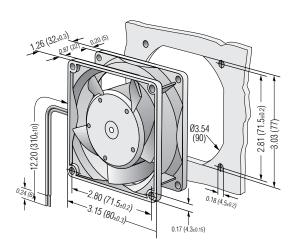
Curves





Curves









Series 3300 NU 92 x 92 x 32 mm

Highlights

- Motor protection against reverse polarity and locking.
- Air exhaust over struts
- Connection via 310 mm strands AWG 22, TR 64, bared and tin-plated
- Ingress protection rating of IP68

Material: Housing: Fiberglass-reinforced PBT composite Impeller: Fiberglass-reinforced PA composite

Direction of rotation: Clockwise, seen on rotor





DC axial fans

Series 3400 NU 92 x 92 x 25 mm

Highlight

- Motor protection against reverse polarity and locking.
- Air exhaust over struts
- Connection via 310 mm strands AWG 24, TR 64, bared and tin-plated
- Ingress protection rating of IP68

Material: Housing: Fiberglass-reinforced PBT composite

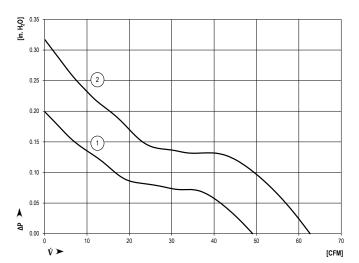
Impeller: Fiberglass-reinforced PA composite

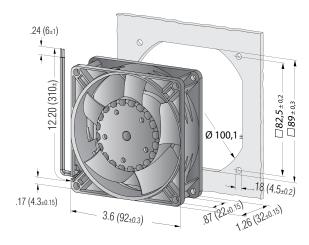
Direction of rotation: Counterclockwise, seen on rotor

Nominal Data	Air flow	Nominal voltage	Voltage range	Sound pressure level	Sound power level	Ball bearings	Power input	Speed	Temperature range	Mass	Ingress Protection Rating	UL Approval	Curves	
Туре	CFM	VDC	VDC	dB(A)	Bel(A)		Watts	RPM	°C	g				
3312 NNU	47.1	12	615	35	4.7	Yes	1.8	2650	-2075	190	IP68	Yes	1	
3312 NHHU	63.0	12	615	42	5.4	Yes	3.4	3450	-2075	190	IP68	Yes	1	
3314 NNU	47.1	24	1828	35	4.7	Yes	1.8	2650	-2075	190	IP68	Yes	1	
3314 NHHU	63.0	24	1828	42	5.4	Yes	3.5	3450	-2075	190	IP68	Yes	2	

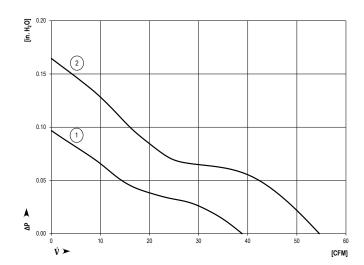
Nominal Data	Air flow	Nominal voltage	Voltage range	Sound pressure level	Sound power level	Ball bearings	Power input	Speed	Temperature range	Mass	Ingress Protection Rating	UL Approval	Curves	
Туре	CFM	VDC	VDC	dB(A)	Bel(A)		Watts	RPM	°C	g				
3414 NMU-603	42.4	24	1828	28	4.3	Yes	1.4	2300	-2070	100	IP68	Yes	1	
3414 NHU	55.3	24	1826	36	5.0	Yes	2.3	3000	-2070	106	IP68	Yes	2	

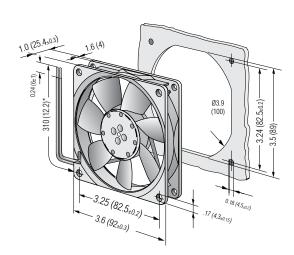
Curves





Curves





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Series 3200 JU 92 x 92 x 38 mm

Highlights

- Motor protection against reverse polarity and locking.
- Air exhaust over struts
- Connection via 310 mm strands AWG 24, TR 64, bared and tin-plated
- Ingress protection rating of IP68

Material: Housing: Fiberglass-reinforced PBT composite

Impeller: Fiberglass-reinforced PA composite

Direction of rotation: Clockwise, seen on rotor





DC axial fans

Series 3250 JU 92 x 92 x 38 mm

Highlights

- Motor protection against reverse polarity and locking.
- Air exhaust over struts
- Connection via 310 mm strands AWG 24, TR 64, bared and tin-plated
- Ingress protection rating of IP68

Material: Housing: Fiberglass-reinforced PBT composite

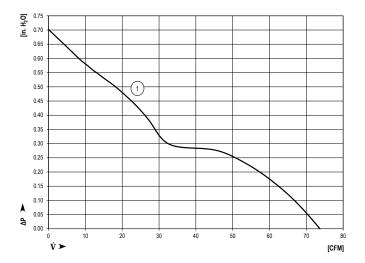
Impeller: Fiberglass-reinforced PA composite

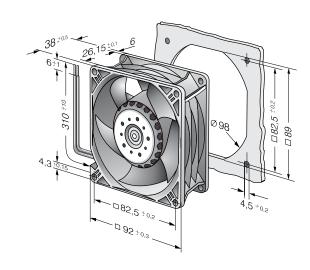
Direction of rotation: Clockwise, seen on rotor

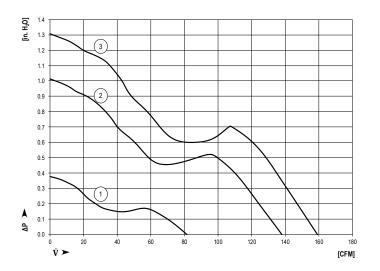
Nominal Data	Air flow	Nominal voltage	Voltage range	Sound pressure level	Sound power level	Ball bearings	Power input	Speed	Temperature range	Mass	Ingress Protection Rating	UL Approval	Curves
Туре	CFM	VDC	VDC	dB(A)	Bel(A)		Watts	RPM	°C	g			
3212J/2NU-343	76.5	12	713.8	51	6.0	Yes	8.1	6000	-2060	240	IP68	Yes	1

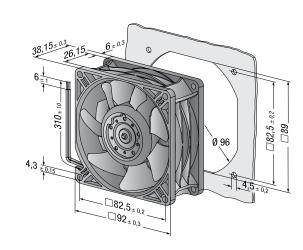
Nominal Data	Air flow	Nominal voltage	Voltage range	Sound pressure level	Sound power level	Ball bearings	Power input	Speed	Temperature range	Mass	Ingress Protection Rating	UL Approval	Curves	
Туре	CFM	VDC	VDC	dB(A)	Bel(A)		Watts	RPM	°C	g				
3252 J/2H3PU	158.0	12	713.2	64	7.6	Yes	35.0	7450	-2070	240	IP68	Yes	3	
3254 J/2HPU	85.0	24	1426.4	46	5.8	Yes	7.0	4100	-2070	240	IP68	Yes	1	
3258 J/2HPU	85.0	48	3656.0	46	5.8	Yes	7.0	4100	-2070	240	IP68	Yes	1	
3258 J/2HHPU	138.0	48	3656.0	59	7.0	Yes	24.3	6650	-2070	240	IP68	Yes	2	
3258 J/2H3PU	158.0	48	3656.0	64	7.6	Yes	33.6	7450	-2070	240	IP68	Yes	3	

Curves











Series 4300 NU 119 x 119 x 32 mm



- Motor protection against reverse polarity and locking.
- Air exhaust over struts
- Connection via 310 mm strands AWG 22, TR 64, bared and tin-plated
- Ingress protection rating of IP68

Material: Housing: Fiberglass-reinforced PBT composite Impeller: Fiberglass-reinforced PA composite

Direction of rotation: Clockwise, seen on rotor





DC axial fans

Series 4100 NU 119 x 119 x 38 mm

- Motor protection against reverse polarity and locking.
- Air intake over struts
- Connection via 310 mm strands AWG 22, TR 64, bared and tin-plated
- Ingress protection rating of IP68

Material: Housing: Die-cast aluminum

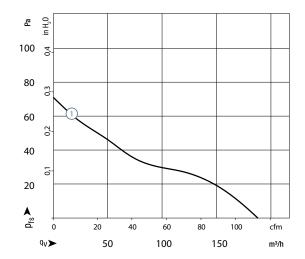
Impeller: Fiberglass-reinforced PA composite

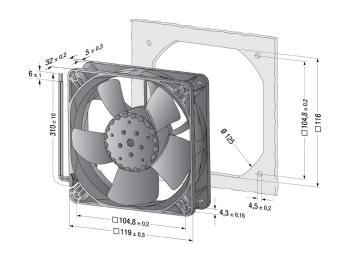
Direction of rotation: Clockwise, seen on rotor

Nominal Data	Air flow	Nominal voltage	Voltage range	Sound pressure level	Sound power level	Ball bearings	Power input	Speed	Temperature range	Mass	Ingress Protection Rating	UL Approval	Curves	
Туре	CFM	VDC	VDC	dB(A)	Bel(A)		Watts	RPM	°C	g				
4312 NNU	112	12	615	41	5.5	Yes	4.0	2700	-2075	250	IP68	Yes	1	
4314 NNU	112	24	1228	41	5.5	Yes	4.0	2700	-2075	250	IP68	Yes	1	

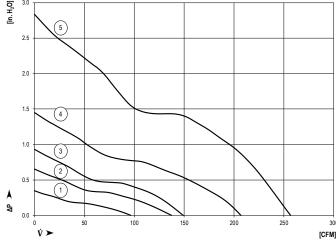
Nominal Data	Air flow	Nominal voltage	Voltage range	Sound pressure level	Sound power level	Ball bearings	Power input	Speed	Temperature range	Mass	Ingress Protection Ratin	UL Approval	Curves	
Туре	CFM	VDC	VDC	dB(A)	Bel(A)		Watts	RPM	°C	g				
4112 N/2HU	134.0	12	814	57.0	6.5	Yes	11.0	4400	-2055	400	IP68	Yes	2	
4114 NXU**	99.0	24	1229	48.5	5.7	Yes	5.6	3200	-2075	400	IP68	Yes	1	
4114 NU	99.0	24	1229	48.5	5.7	Yes	5.6	3200	-2075	400	IP68	Yes	1	
4114 NHU-295	134.0	24	1630	57.0	6.5	Yes	11.0	4400	-2055	400	IP68	Yes	2	
4114 N/2HU-272*	134.0	24	1225	57.0	6.5	Yes	11.0	4400	-2055	400	IP68	Yes	2	
4114 NXHHU**	153.0	24	1228	60.0	7.0	Yes	13.6	4900	-2055	400	IP68	Yes	3	
4114 N/2H6PU	256.0	24	1630	73.0	8.1	Yes	65.0	8400	-2065	390	IP68	Yes	5	
4114 N/2H6AU	256.0	24	1630	73.0	8.1	Yes	65.0	8400	-2065	390	IP68	Yes	5	
4118 NHU-294	134.0	48	3656	57.0	6.5	Yes	11.0	4400	-2055	400	IP68	Yes	2	
4118 N/2H4PU	206.0	48	3660	67.0	7.0	Yes	34.0	6800	-2065	400	IP68	Yes	4	

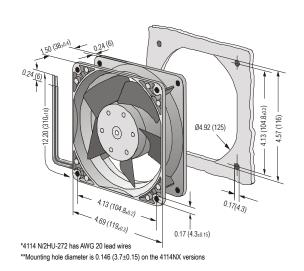
Curves













Series DV 5200 U 127 x 127 x 38 mm



Highlights

- Motor protection against reverse polarity and locking.
- Air exhaust over struts
- Connection via 310 mm strands AWG 22, TR 64, bared and tin-plated
- Ingress protection rating of IP68

Material: Housing: Die-cast aluminum

Impeller: Fiberglass-reinforced PA composite

Direction of rotation: Counterclockwise, seen on rotor





DC axial fans

Series 6200 NU Ø172 x 51 mm

Highlights

- Motor protection against reverse polarity and locking.
- Air exhaust over struts
- Connection via leads 310 mm AWG 22, TR 64, bared and tin-plated
- Ingress protection rating of IP68

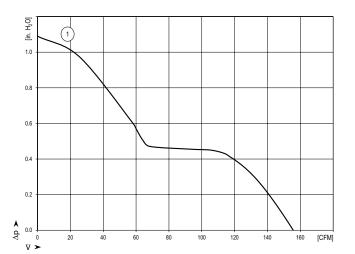
Material: Housing: Die-cast aluminum

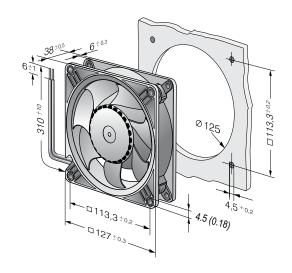
Impeller: Fiberglass-reinforced PA composite

Direction of rotation: Counterclockwise, seen on rotor

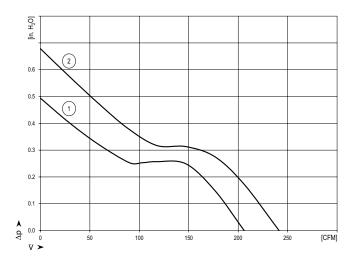
Nominal Data	Air flow	Nominal voltage	Voltage range	Sound pressure level	Sound power level	Ball bearings	Power input	Speed	Temperature range	Mass	Ingress Protection Rating	UL Approval	Curves	Nominal Da	ata	Air flow	Nominal voltage	Voltage range	Sound pressure level	Sound power level	Ball bearings	Power input	Speed	Temperature range	Mass	Ingress Protection Rating	UL Approval	Curves	
Туре	CFM	VDC	VDC	dB(A)	Bel(A)		Watts	RPM	o C	g				Туре		CFM	VDC	VDC	dB(A)	Bel(A)		Watts	RPM	°C	g				
DV 5214 NU	158.9	24	1826	56	6.4	Yes	19.8	4930	-2065	560	IP68	Yes	1	6224 NMU		206.0	24	1232	50	5.7	Yes	11.6	2950	-2060	840	IP68	Yes	1	
DV 5214/2NU-807	158.9	24	1630	56	6.0	Yes	20.1	5000	-2065	560	IP68	Yes	1	6224 NU		241.3	24	1228	55	6.1	Yes	15.6	3400	-2072	840	IP68	Yes	2	

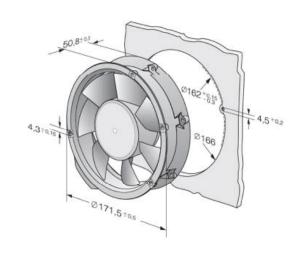
Curves





Curves







Series 6300 U Ø172 x 51 mm



- Motor protection against reverse polarity and locking.
- Air exhaust over struts
- Connection via leads 365 mm AWG 22, TR 64, bared and tin-plated
- Ingress protection rating of IP68

Material: Housing: Die-cast aluminum

Impeller: Fiberglass-reinforced PA composite

Direction of rotation: Counterclockwise, seen on rotor





DC axial fans

Series 6400 U 172 x 150 x 51 mm

- Motor protection against reverse polarity and locking.
- Air exhaust over struts
- Connection via leads 310 mm AWG 22, TR 64, bared and tin-plated
- Ingress protection rating of IP68

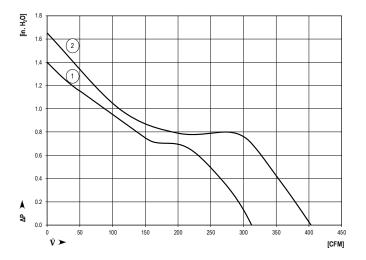
Material: Housing: Die-cast aluminum

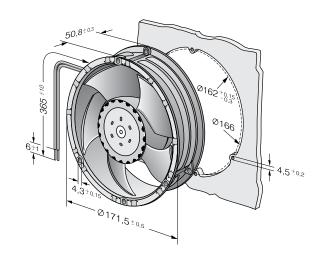
Impeller: Fiberglass-reinforced PA composite

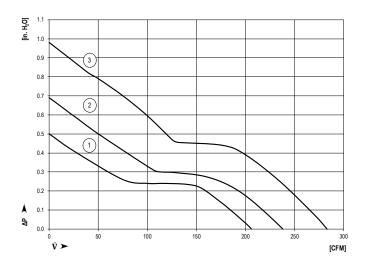
Direction of rotation: Counterclockwise, seen on rotor

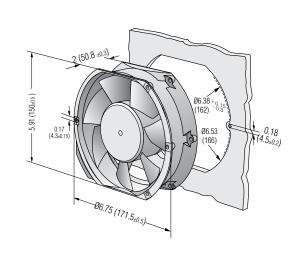
Air flow Mass Sound pressure level Sound power level	Temperature range Mass Ingress Protection Rating UL Approval Curves
Type CFM VDC VDC dB(A) Bel(A) Watts RPM °C g Type CFM VDC VDC dB(A) Bel(A) Watts RPM	°C g
6314 HU-227 321.0 24 1630 58 6.9 Yes 31 5000 -2050 910 IP68 Yes 1 6424/2U 241.3 24 1228 57 6.4 Yes 17 3400	-2067 870 IP68 Yes 2
6318/2 HPU-216 321.0 48 3660 58 6.9 Yes 31 5000 -2065 910 IP68 Yes 1 6424 MU 206.0 24 1232 52 6.0 Yes 12 2850	-2072 760 IP68 Yes 1
6318 N/2H3PU 403.0 48 3672 - 7.5 Yes 53 5000 -2070 935 IP68 Yes 2 6448 U 241.3 48 2860 57 6.4 Yes 17 3400	-2067 870 IP68 Yes 2
6424 HU 283.0 24 1228 63 7.1 Yes 26 4000	-2055 870 IP68 Yes 3













DC centrifugal fans

Series RG 160 NU 220 x 220 x 56 mm



Highlights:

- Backward curved impeller
- Motor protection against reverse polarity and locking.
- Direction of air flow: axial air intake, centrifugal air exhaust
- Connection via single strands AWG 22, TR 64, bared and tin-plated
- Ingress protection rating of IP68

Material: Impeller: Fiberglass-reinforced composite

Housing: Fiberglass-reinforced composite scroll

Baseplate: Steel

Direction of rotation: Counterclockwise, seen on rotor



DC centrifugal fans

Series RG 160 NTDU 220 x 220 x 56 mm

Highlights:

- Backward curved impeller
- Motor protection against reverse polarity and locking.
- Direction of air flow: axial air intake, centrifugal air exhaust
- Connection via single strands AWG 22, TR 64, bared and tin-plated
- Ingress protection rating of IP68

Material: Impeller: Fiberglass-reinforced composite

Housing: Fiberglass-reinforced composite scroll

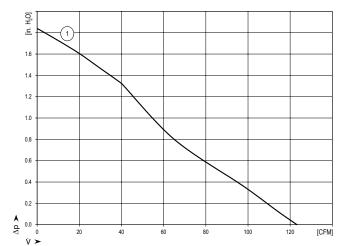
Baseplate: Steel

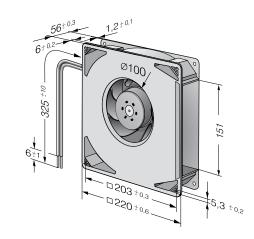
Direction of rotation: Counterclockwise, seen on rotor

г	

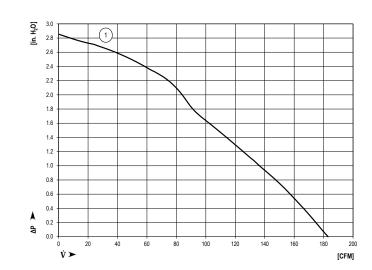
Nominal Data	Airflow	Nominal voltage	Voltage range	Sound pressure level	Sound power level	Ball bearings	Power input	Speed	Temperature range	Mass	Ingress Protection Rating	UL Approval	Curves	Nominal Data	Air flow	Nominal voltage	Voltage range	Sound pressure level	Sound power level	Ball bearings	Power input	Speed	Temperature range	Mass	Ingress Protection Rating	UL Approval	Curves	
Туре	CFM	VDC	VDC	dB(A)	Bel(A)		Watts	RPM	°C	g				Туре	CFM	VDC	VDC	dB(A)	Bel(A)		Watts	RPM	°C	g				
RG 160-28/14NU	123.0	24	1228	-	6.6	Yes	20	2850	-2070	1400	IP68	Yes	1	RG 160-28/18N/2TDPU-331	182.5	48	3857	-	7.5	Yes	57.6	4270	-2075	1400	IP68	Yes	1	
RG 160-28/18NU	123.0	48	2860	-	6.6	Yes	20	2850	-2070	1400	IP68	Yes	1															

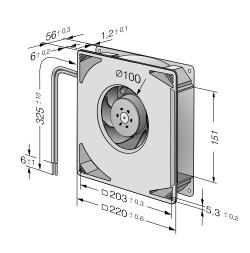






Curves







DC centrifugal fans

Series RER 160 NTDU Ø165 x 51 mm



- Backward curved impeller
- Motor protection against reverse polarity and locking
- Direction of air flow: axial air intake, centrifugal air exhaust
- Connection via single strands AWG 22, TR 64, bared and tin-plated
- Ingress protection rating of IP68

Material: Impeller: Fiberglass-reinforced composite

Direction of rotation: Counterclockwise, seen on rotor





DC centrifugal fans

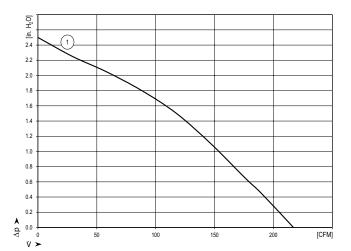
Series RER 133 TDU Ø133 x 91 mm

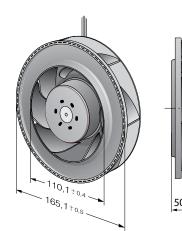
- Backward curved impeller with 3-phase efficient motor
- Motor protection against reverse polarity and locking
- Direction of air flow: axial air intake, centrifugal air exhaust
- Connection via single strands AWG 22, TR 64, bared and tin-plated
- Ingress protection rating of IP68

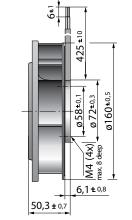
Material: Impeller: Fiberglass-reinforced composite Direction of rotation: Clockwise, seen on rotor

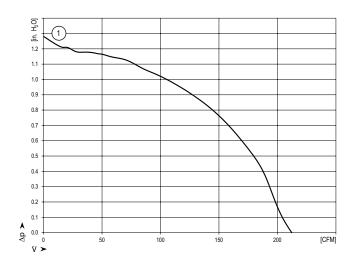
Nominal Data	Air flow	Nominal voltage	Voltage range	Sound pressure level	Sound power level	Ball bearings	Power input	Speed	Temperature range	Mass	Ingress Protection Rating	UL Approval	Curves	Nominal Data	Air flow	Nominal voltage	Voltage range	Sound pressure level	Sound power level	Ball bearings	Power input	Speed	Temperature range	Mass	Ingress Protection Rating	UL Approval	Curves	
Туре	CFM	VDC	VDC	dB(A)	Bel(A)		Watts	RPM	°C	g				Туре	CFM	VDC	VDC	dB(A)	Bel(A)		Watts	RPM	°C	g				
RER 160-28/18NTDAU	217.0	48	3857	-	7.4	Yes	51	4200	-2060	700	IP68	Yes	1	RER 133-41/18/2TDLOU	211.9	48	3657	-	6.9	Yes	30.1	4000	-2070	740	IP68	Yes	1	

Curves

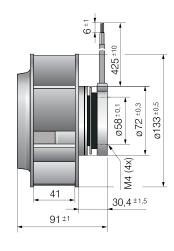














DC centrifugal fans

Series RER 190 TDU Ø190 x 69 mm



- Backward curved RadiCal impeller with maximum efficiency and 3-phase motor
- Motor protection against reverse polarity and locking
- Direction of air flow: axial air intake, centrifugal air exhaust
- Connection via single strands AWG 22, TR 64, speed signal and control input AWG 22, bared and tin-plated
- Ingress protection rating of IP68

Material: Impeller: Fiberglass-reinforced composite

Direction of rotation: Clockwise, seen on rotor





DC centrifugal fans

Series RER 175 TDU Ø175 x 69 mm

Highlights:

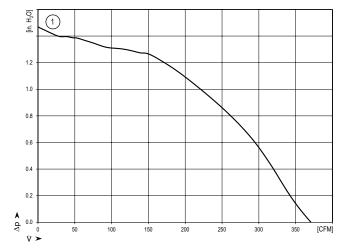
- Backward curved impeller with 3-phase motor
- Motor protection against reverse polarity and locking
- Direction of air flow: axial air intake, centrifugal air exhaust
- Connection via single strands AWG 22, TR 64, speed signal and control input AWG 22, bared and tin-plated
- Available as standard with PWM control input and speed signal
- Ingress protection rating of IP68

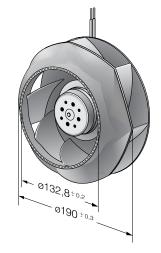
Material: Impeller: Fiberglass-reinforced composite

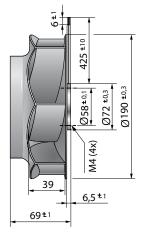
Direction of rotation: Clockwise, seen on rotor

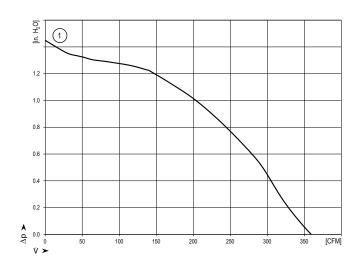
Nominal Data	Air flow	Nominal voltage	Voltage range	Sound pressure level	Sound power level	Ball bearings	Power input	Speed	Temperature range	Mass	Ingress Protection Rating	UL Approval	Curves	Nominal Da	ita Yir flow	Nominal voltage	Voltage range	Sound pressure level	Sound power level	Ball bearings	Power input	Speed	Temperature range	Mass	Ingress Protection Rating	UL Approval	Curves
Туре	CFM	VDC	VDC	dB(A)	Bel(A)		Watts	RPM	°C	g				Туре	CFM	VDC	VDC	dB(A)	Bel(A)		Watts	RPM	°C	g			
RFR 190-39/14/2TDI OU	376.7	24	16 30	-	6.8	Yes	57 1	2900	-20 60	870	IP68	Yes	1	RER 175-42/	14/2TDMLPU 353.0	24	16 30	-	7.3	Yes	48	3400	-20 65	775	IP68	Yes	1

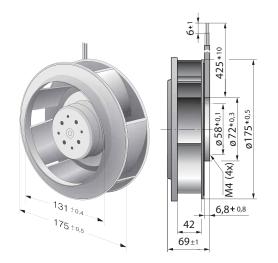
Curves











Notes

Notes

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