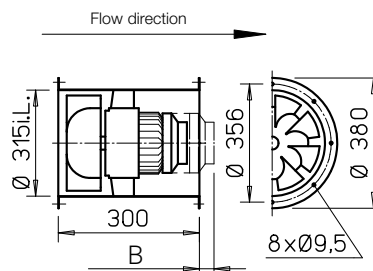


VAR 315



Also available in version:

Dimensions VAR 315



Dim. B see table
Dim. in mm

Casing

Duct with double-sided flange DIN 24155 p. 3. Made of galvanized steel sheet, fixed guide wheel with inner hub for mounting the flange motor.

Impeller

Optimised for high pressure and volume performance. Special development with spatially curved blades made of high-quality plastic.

Drive

Directly through maintenance-free flange motor. Closed design type IP54. Aluminium casing with cooling fins. Radio interference-free, sealed ball bearings. Tropicalised winding with moisture proof coating. With condensate drain holes upon request (except for explosion-proof types), and the installation method must be indicated when placing the order.

Power control

The voltage-controllable types are identified in the "Current consumption with control mode" column with a value which must be observed when determining the controller (see Speed controller column). The flow rates are shown in the performance diagram. The planned use of a frequency inverter without a sine filter should be indicated when placing the order. This requires a change of fan version and additional costs, if necessary. Explosion-proof types are not controllable.

Electrical connection

Standard terminal box (protection category IP55) on outside of duct.

Installation

Installation possible in any position; but be aware of any condensate drain holes depending on usage.

Motor protection

All types (except for 3~ explosion-proof) are equipped with thermal contacts or PTC thermistor. These should be wired with the motor protection circuit breaker (see type table) for effective motor protection. For 1~ explosion-proof types, the thermal contacts are wired in series with the winding, automatic deactivation and reactivation after cool down. Motors without thermal contacts or PTC thermistor must be protected by means of on-site a motor protection circuit breaker.

Noise levels

See sound power information above performance diagram. The lower sound pressure value can be determined using the diagram on the "Technical information" page. See page 14 f for noise emissions and room acoustics.

Reference

Page

Techn. description	256
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Special design

Different voltage, frequency, protection category, higher air flow temperature and acid protection upon request.

The technical information on p. 19 ff. must be observed.

Type	Ref. no.	Speed	Flow rate free-blow	Power consump.*	Voltage	Current consumption*		Wiring diagram	Max. air flow temp.		Weight net	Dim. B Motor protrusion	Speed controller 5-step Pole chang. switch		Motor protection circuit breaker		Vibration dampers	
						at rated voltage	with control		at rated voltage	with control			Type	Ref. no.	Type	No.	Compr.	Tens.
		min ⁻¹	m ³ /h	kW	V	A	A	No.	+°C	+°C	ca. kg	mm						
Single-phase alternating current, 50 Hz, protection category IP54																		
VARW 315/4	06677	1440	2450	0.23	230	1.10	1.50	966	60	40	13.0	—	MWS 3 ¹⁾	01948	MW	01579	SDD 1	SDZ 1
Three-phase current, 50 Hz, protection category IP54																		
VARD 315/4	06678	1450	2500	0.22	400	0.60	0.70	469	60	40	13.0	—	RDS 1 ^{1) 4)}	01314	MD	05849	SDD 1	SDZ 1
VARD 315/2	06679	2890	4990	1.50	400	3.06	—	776	60	—	20.5	80	—	MSA 01289	MSA	01289	SDD 1	SDZ 1
Pole-changeable, 2 speeds (Dahlander winding Y/Y), Three-phase current, 50 Hz, protection category IP54													Pole chang. switch					
VARD 315/4/2	06777	1340/2850	2600/4920	0.3/1.4	400	1.1/3.1	—	777	60	—	20.5	50	PDA 12 ³⁾	05081	MSA	01289	SDD 1	SDZ 1
Explosion-proof, II 2G Ex h IIB T3 Gb, Motor Ex d, alternating current 230 Volt, 50 Hz, protection category IP55																		
VARW 315/4 Ex	06738	1450	2680	0.18	230	1.25	—	757	40	—	15.0	6	not permitted	—	—	—	SDD 1	SDZ 1
Explosion-proof, II 2G Ex h IIB + H₂ T3 Gb, Motor Ex e, three-phase current 400 Volt, 50 Hz, protection category IP55																		
VARD 315/4 Ex	06680	1420	2610	0.37	400	1.15	—	470	40	—	17.0	—	not permitted	not permitted	—	—	SDD 1	SDZ 1
VARD 315/2 Ex	06681	2885	5260	1.50	400	3.16	—	470	40	—	23.0	44	not permitted	not permitted	—	—	SDD 1	SDZ 1

* For Ex types: Motor ratings see information on page 20.

¹⁾ incl. motor protection circuit breaker. ²⁾ includes operating and speed switch.

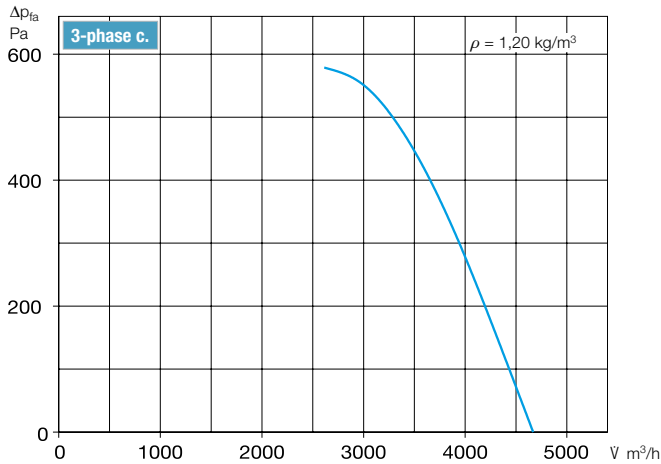
³⁾ Flush-m. version see Switch product page.

⁴⁾ Frequency inverter with integrated sine filter, Type FU-BS 2.5, No. 05459, see product page FU.

Performance curves VAR 315/2

n=2700 1/min

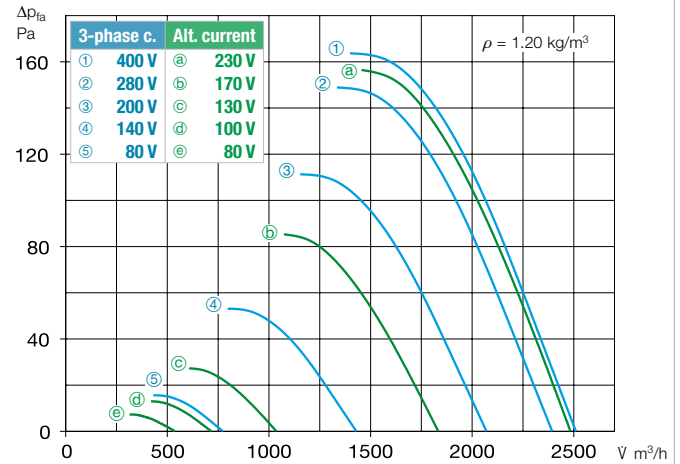
Frequency		Hz	Tot.	125	250	500	1k	2k	4k	8k
L _{WA}	Air noise	dB(A)	91	62	73	84	86	87	82	74
L _{PA, 4m}	Air noise	dB(A)	71	42	53	64	66	67	62	54



Performance curves VAR 315/4

n=1450 1/min

Frequency		Hz	Tot.	125	250	500	1k	2k	4k	8k
L _{WA}	Air noise	dB(A)	76	52	65	70	72	70	63	53
L _{PA, 4m}	Air noise	dB(A)	56	32	45	50	52	50	43	33



Accessories VAR 315 Description see page 278 ff.

Intake nozzle with prot. grille ASD-SGD 315 No. 01416	Extension duct VR 315 No. 01404	Duct silencer- RSD 315/..	Duct shutter, automatic RVS 315 a) No. 02594	Flanged flexible connector STS 315 b) No. 01221	Counter flange FR 315 No. 01204	Flat flange FF 315 No. 04943	Flexible connecting sleeve FM 315 b) No. 01674	Protection grille duct side SG 315 No. 01237	Mounting brackets MK 315 (1 Set = 2 pcs) No. 01448	Mounting ring for vertical attachment MRV 315 No. 01755

a) Shutter, motorised see Accessories product pages. b) Types for explosion-proof fans see above.

Other accessories Page

Access. for expl.-proof fans

Flanged flexible connector STS 315 Ex Ref. no. 02503

Flexible connecting sleeve FM 315 Ex Ref. no. 01690

Filters and silencers	483 ff.
Shutters and ventilation grilles	563 ff.
Speed controllers, controllers and switches	601 ff.