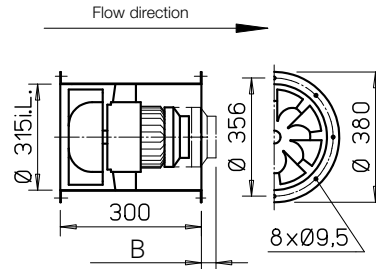


**VAR 315**



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 galvanised 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. 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 re-activation after cool down. Motors without thermal contacts 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
Selection table	257
Planning information	14 ff.

**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 min <sup>-1</sup>	Flow rate free-blow. V m <sup>3</sup> /h	Power consump.* kW	Voltage V	Current consumption*		Wiring diagram No.	Max. air flow temp.		Weight net ca. kg	Dim. B Motor protru- sion mm	Speed controller 5-step Pole chang. switch		Motor pro- tection circuit breaker for connecting built-in thermal contacts		Vibration dampers		
						at rated voltage A	with control A		at rated voltage +°C	with control +°C			Type	Ref. no.	Type	No.	Compr. Type	Tens. Type	
<b>Single-phase alternating current, 50 Hz, protection category IP54</b>																			
VARW 315/4	06677	1440	2480	0.23	230	1.10	1.17	966	60	40	13.0	–	MWS 3 <sup>1)</sup>	01948	MW	01579	SDD 1	SDZ 1	
<b>Three-phase current, 50 Hz, protection category IP54</b>																			
VARD 315/4	06678	1450	2510	0.22	400	0.60	0.70	469	60	40	13.0	–	RDS 1 <sup>1)</sup> 4 <sup>1)</sup>	01314	MD	05849	SDD 1	SDZ 1	
<b>Two-speed, three-phase current, 50 Hz, Y/Δ connection, protection category IP54</b>																			
VAR 315/2/2	06679	2150/2650	3580/4670	0.9/1.35	400Y/Δ	1.5/2.4	2.5	520	60	40	20.5	66	RDS 4 <sup>1)</sup>	01316	M 4 <sup>2)</sup>	01571	SDD 1	SDZ 1	
<b>Pole-changeable, 2 speeds (Dahlander winding Y/Y), Three-phase current, 50 Hz, protection category IP54</b>																			
VAR 315/4/2	06777	1480/2890	2730/5340	0.42/1.83	400	1.2/3.3	–	472	60	–	20.5	54	PDA 12 <sup>3)</sup>	05081	–	–	SDD 1	SDZ 1	
<b>Explosion-proof, II 2G Ex h IIB T3 Gb, Motor Ex d, alternating current 230 Volt, 50 Hz, protection category IP55</b>																			
VARW 315/4 Ex	06738	1450	2680	0.18	230	1.25	–	757	40	–	15.0	6	not permitted	–	–	–	SDD 1	SDZ 1	
<b>Explosion-proof, II 2G Ex h IIB + H<sub>2</sub> T3 Gb, Motor Ex e, three-phase current 400 Volt, 50 Hz, protection category IP55</b>																			
VARD 315/4 Ex	06680	1420	2610	0.37	400	1.08	–	470	40	–	17.0	–	not permitted	not permitted	–	–	SDD 1	SDZ 1	
VAR 315/2 Ex	06681	2860	5260	1.50	400	3.15	–	470	40	–	23.0	44	not permitted	not permitted	–	–	SDD 1	SDZ 1	

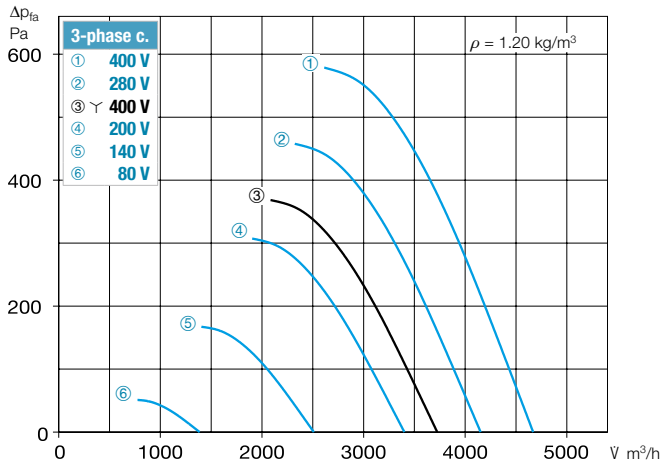
\* For Ex types: Motor ratings see information on page 20. <sup>1)</sup> incl. motor protection circuit breaker. <sup>2)</sup> includes operating and speed switch. <sup>3)</sup> Flush-m. version see Switch product page.

<sup>4)</sup> 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

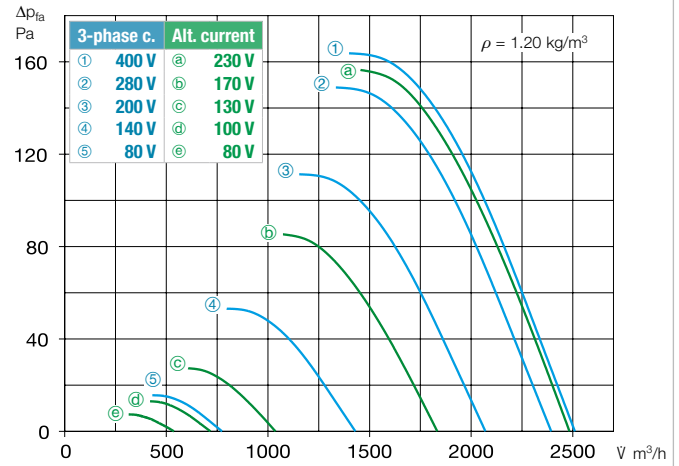
Frequency	Hz	Tot.	125	250	500	1k	2k	4k	8k	
L <sub>WA</sub> Air noise		dB(A)	91	62	73	84	86	87	82	74
L <sub>PA,4m</sub> Air noise		dB(A)	71	42	53	64	66	67	62	54



## Performance curves VAR 315/4

n=1450 1/min

Frequency	Hz	Tot.	125	250	500	1k	2k	4k	8k	
L <sub>WA</sub> Air noise		dB(A)	76	52	65	70	72	70	63	53
L <sub>PA,4m</sub> 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 <b>ASD-SGD 315</b> No. 01416	Extension duct <b>VR 315</b> No. 01404	Duct silencer- <b>RSD 315/..</b>	Duct shutter, automatic <b>RVS 315 a)</b> No. 02594	Flanged flexible connector <b>STS 315 b)</b> No. 01221	Counter flange <b>FR 315</b> No. 01204	Flat flange <b>FF 315</b> No. 04943	Flexible connecting sleeve <b>FM 315 b)</b> No. 01674	Protection grille duct side <b>SG 315</b> No. 01237	Mounting brackets <b>MK 315</b> (1 Set = 2 pcs) No. 01448	Mounting ring for vertical attachment <b>MRV 315</b> No. 01755

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

Axial and VAR fans

Other accessories	Page
<b>Access. for expl.-proof fans</b>	
<b>Flanged flexible connector STS 315 Ex</b>	Ref. no. 02503
<b>Flexible connecting sleeve FM 315 Ex</b>	Ref. no. 01690
Filters and silencers	483 ff.
Shutters and ventilation grilles	563 ff.
Speed controllers, controllers and switches	601 ff.