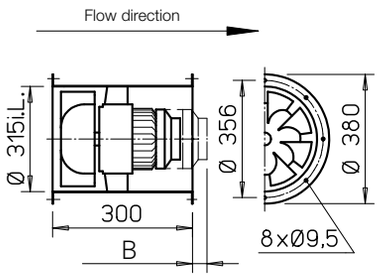
## VAR 315



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 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 |
| 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.

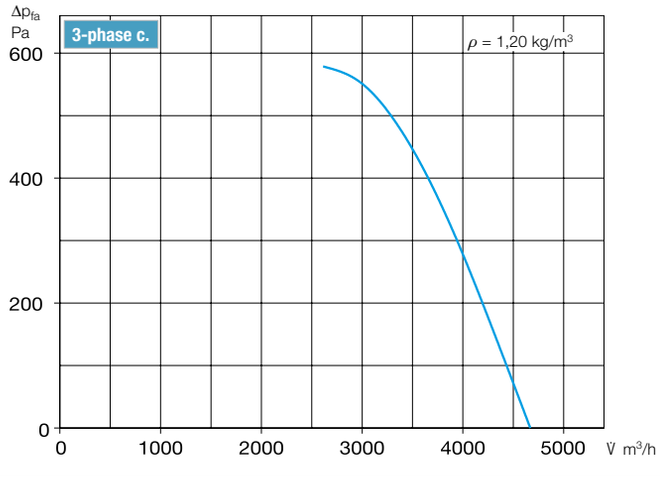
| Type | Ref. no. | Speed | Flow rate free-blow. | Power consump.* | Voltage | Current consumption* | | Wiring diagram | Max. air flow temp. | | Weight net | Dim. B Motor protrusion | Speed controller 5-step Pole chang. switch | | Motor protection circuit breaker | | Vibration dampers | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | at rated voltage | with control | | at rated voltage | with control | | | | | | | Compr. | Tens. |
| | | min⁻¹ | V̇ m³/h | kW | V | A | A | No. | +°C | +°C | ca. kg | mm | Type | Ref. no. | Type | No. | Type | Type |
| **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 | **SDD 1** | **SDZ 1** |
| **Pole-changeable, 2 speeds (Dahlander winding ⅄/⅄⅄), Three-phase current, 50 Hz, protection category IP54** | | | | | | | | | | | | | Pole chang. switch | | | | | |
| **VARD 315/4/2** | 06677 | 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** |
| Ex **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** |
| Ex **Explosion-proof, II 2G Ex h IIB + $H_2$ 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

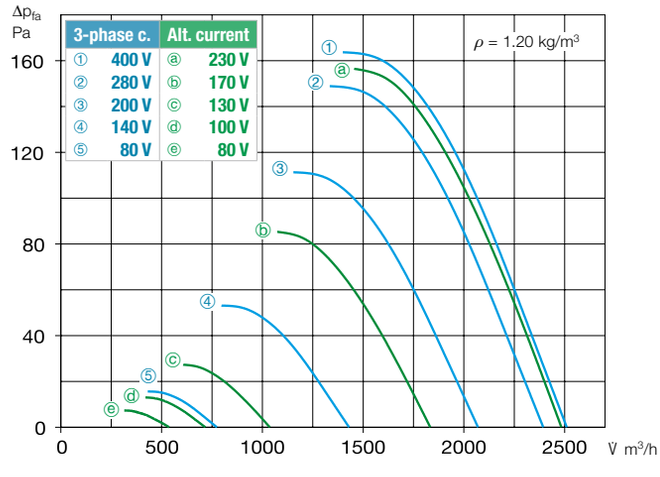
| Frequency | | Hz | Tot. | 125 | 250 | 500 | 1k | 2k | 4k | 8k |
|---|---|---|---|---|---|---|---|---|---|---|
| $L_{WA}$ | Air noise | dB(A) | 91 | 62 | 73 | 84 | 86 | 87 | 82 | 74 |
| $L_{PA,\ 4m}$ | Air noise | dB(A) | 71 | 42 | 53 | 64 | 66 | 67 | 62 | 54 |



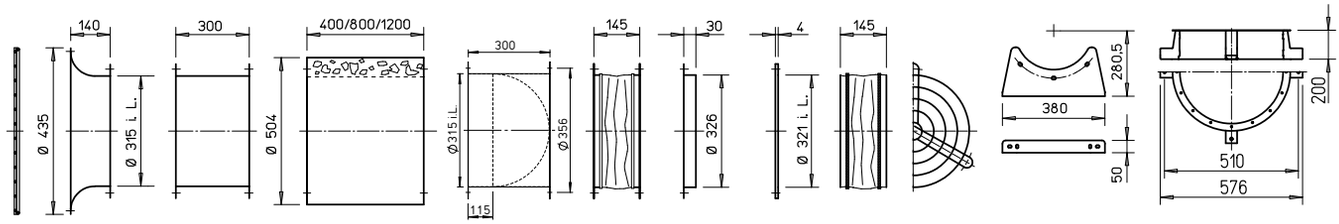

## Performance curves VAR 315/4

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 |
|---|---|
| [b] **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. |