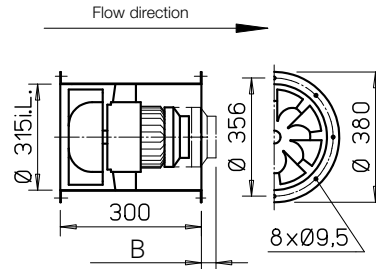


VAR 315



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	254
Selection table	255
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 ⁻¹	Flow rate free-blow. V m ³ /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	
Single-phase alternating current, 50 Hz, protection category IP54																			
VARW 315/4	06677	1440	2480	0.23	230	1.10	1.17	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	2510	0.22	400	0.60	0.70	469	60	40	13.0	–	RDS 1 ¹⁾ 4 ¹⁾	01314	MD	05849	SDD 1	SDZ 1	
Two-speed, three-phase current, 50 Hz, Y/Δ connection, protection category IP54																			
VARW 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 ¹⁾	01316	M 4 ²⁾	01571	SDD 1	SDZ 1	
Pole-changeable, 2 speeds (Dahlander winding Y/Y), Three-phase current, 50 Hz, protection category IP54																			
VARW 315/4/2	06777	1480/2890	2730/5340	0.42/1.83	400	1.2/3.3	–	472	60	–	20.5	54	PDA 12 ³⁾	05081	–	–	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																			
VARW 315/4 Ex	06680	1420	2610	0.37	400	1.15	–	470	40	–	17.0	–	not permitted	not permitted	–	–	SDD 1	SDZ 1	
VARW 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.

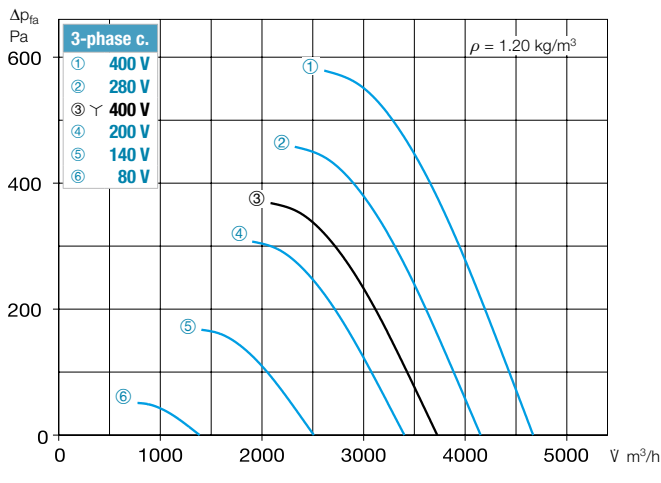
³⁾ Flush-m. version see Switch product page.

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

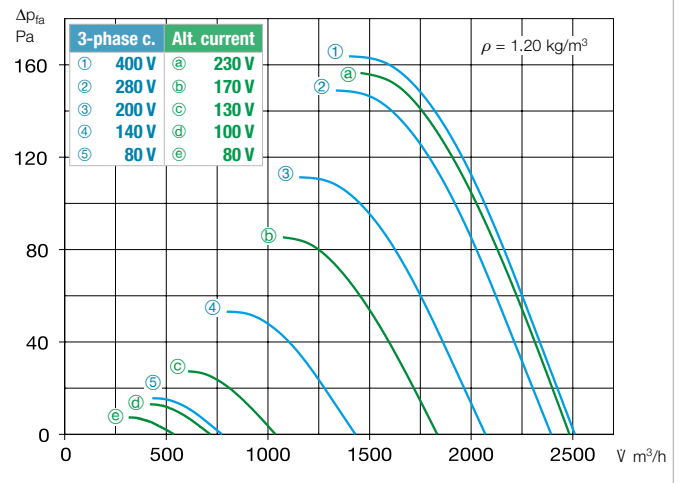
Frequency	Hz	Tot.	125	250	500	1k	2k	4k	8k	
L _{WA} Air noise		dB(A)	91	62	73	84	86	87	82	74
L _{PA,4m} Air noise		dB(A)	71	42	53	64	66	67	62	54



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 276 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.

Axial and VAR fans

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	481 ff.
Shutters and ventilation grilles	561 ff.
Speed controllers, controllers and switches	599 ff.