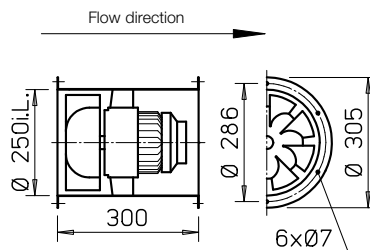


VAR 250



Also available in version:

Dimensions VAR 250



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. 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	Flow rate free-blow.	Power consump.*	Voltage	Current consumption*		Wiring diagram	Max. air flow temp.		Weight net	Speed controller 5-step Pole chang. switch		Motor protection circuit breaker for connecting built-in thermal contacts		Vibration dampers	
						at rated voltage	with control		at rated voltage	with control		Type	Ref. no.	Type	Ref. no.	Compr.	Tens.
		min ⁻¹	V m ³ /h	kW	V	A	A	No.	+°C	+°C	ca. kg					Type	Type
Single-phase alternating current 50 Hz, protection category IP54																	
VARW 250/4	06666	1420	1210	0.12	230	0.46	0.60	966	60	40	11.5	MWS 1.5 ¹⁾ 01947	MW	01579		SDD 1	SDZ 1
VARW 250/2	06667	2840	2540	0.55	230	2.60	3.90	966	60	40	13.0	MWS 5 ¹⁾ 01949	MW	01579		SDD 1	SDZ 1
Three-phase current, 50 Hz, protection category IP54																	
VARD 250/4	06668	1410	1250	0.09	400	0.30	0.30	469	60	40	11.5	RDS 1 ¹⁾ 01314	MD	05849		SDD 1	SDZ 1
VARD 250/2	06669	2800	2450	0.47	400	1.10	1.10	469	60	40	11.5	RDS 2 ¹⁾ 01315	MD	05849		SDD 1	SDZ 1
Pole-changeable, 2 speeds (Dahlander winding Y/Y), Three-phase current, 50 Hz, protection category IP54																	
VARD 250/4/2	06773	1425/2750	1200/2400	0.75/0.49	400	0.24/0.94	—	472	60	—	13.0	PDA 12 ³⁾ 05081	M 3 ²⁾	01293		SDD 1	SDZ 1
Ex Ex Explosion-proof, II 2G Ex h IIB T3 Gb, Motor Ex d, alternating current 230 Volt, 50 Hz, protection category IP55																	
VARW 250/4 Ex	06735	1400	1290	0.06	230	0.70	—	757	40	—	13.0	not permitted	—	—		SDD 1	SDZ 1
Ex Ex Explosion-proof, II 2G Ex h IIB + H₂ T3 Gb, Motor Ex e, three-phase current 400 Volt, 50 Hz, protection category IP55																	
VARD 250/4 Ex	06670	1355	1300	0.12	400	0.37	—	470	40	—	13.0	not permitted	not permitted			SDD 1	SDZ 1
VARD 250/2 Ex	06671	2890	2590	0.25	400	1.13	—	470	40	—	15.5	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.

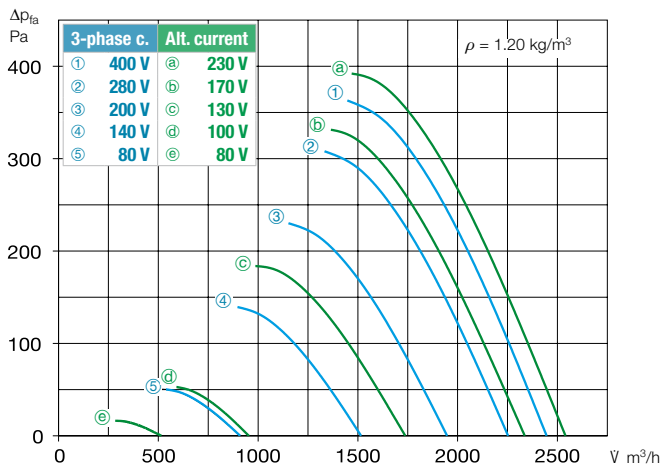
³⁾ Flush-m. version see Switch product page.

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

Performance curves VAR 250/2

n=2800 1/min

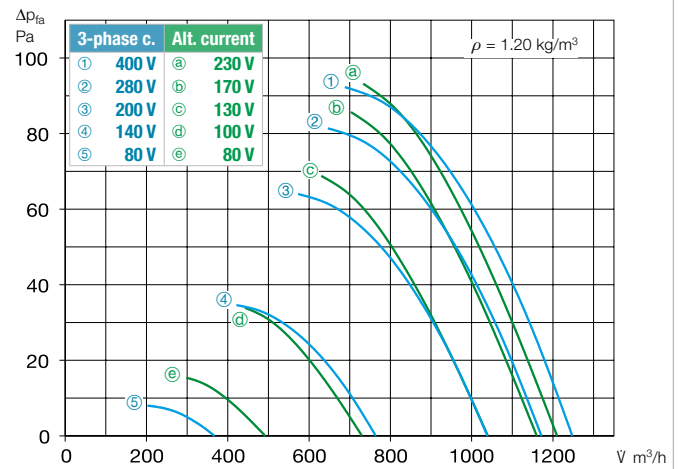
Frequency		Hz	Tot.	125	250	500	1k	2k	4k	8k
L _{WA}	Air noise	dB(A)	84	55	65	77	79	80	75	67
L _{PA, 4m}	Air noise	dB(A)	64	35	45	57	59	60	55	47



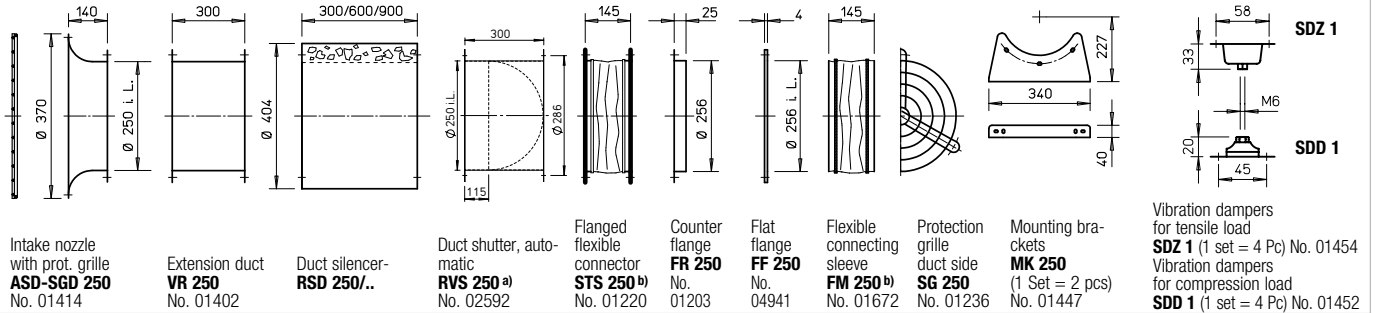
Performance curves VAR 250/4

n=1450 1/min

Frequency		Hz	Tot.	125	250	500	1k	2k	4k	8k
L _{WA}	Air noise	dB(A)	69	44	58	63	65	63	56	46
L _{PA, 4m}	Air noise	dB(A)	49	24	38	43	45	43	36	26



Accessories VAR 250 Description see page 278 ff.



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 250 Ex	Ref. no. 02501
Flexible connecting sleeve	
FM 250 Ex	Ref. no. 01688

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