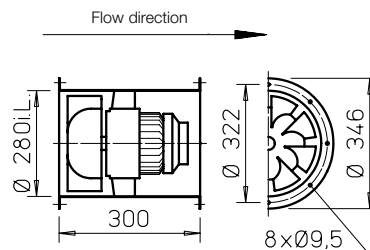


VAR 280



Also available in version:

Dimensions VAR 280



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.	Type
		min ⁻¹	V m ³ /h	kW	V	A	A	No.	+°C	+°C	ca. kg	Type	Ref. no.	Type	Ref. no.	Type	Type
Single-phase alternating current.50 Hz, protection category IP54																	
VARW 280/4	06672	1330	1600	0.11	230	0.50	0.60	966	60	40	12.0	MWS 1.5 ¹⁾ 01947	MW	01579	SDD 1	SDZ 1	
VARW 280/2	06659	2715	3350	0.79	230	3.70	4.90	967	60	40	14.0	MWS 7.5 ¹⁾ 01950	MW	01579	SDD 1	SDZ 1	
Three-phase current, 50 Hz, protection category IP54																	
VARD 280/4	06673	1370	1650	0.12	400	0.35	0.35	469	60	40	12.0	RDS 1 ¹⁾ 01314	MD	05849	SDD 1	SDZ 1	
VARD 280/2	06674	2705	3315	0.80	400	1.52	1.64	469	60	40	13.5	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												Pole chang. switch					
VARD 280/4/2	06775	1405/2810	1760/3500	0.14/0.91	400	0.44/1.78	—	472	60	—	16.0	PDA 12 ³⁾ 05081	M 3 ²⁾	01293	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 280/4 Ex	06737	1330	1720	0.18	230	1.25	—	757	40	—	14.0	not permitted	—	—	SDD 1	SDZ 1	
  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 280/4 Ex	06675	1355	1820	0.12	400	0.37	—	470	40	—	16.0	not permitted		not permitted	SDD 1	SDZ 1	
VARD 280/2 Ex	06676	2885	3720	0.75	400	1.59	—	470	40	—	18.0	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.

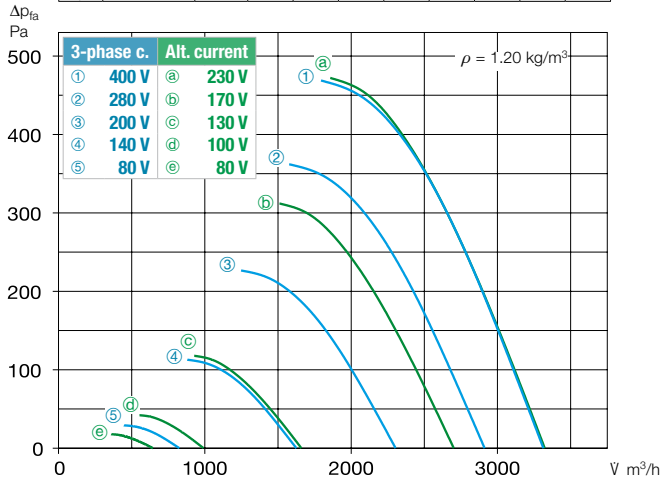
³⁾ Flush-m. version see Switch product page.

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

Performance curves VAR 280/2

n=2800 1/min

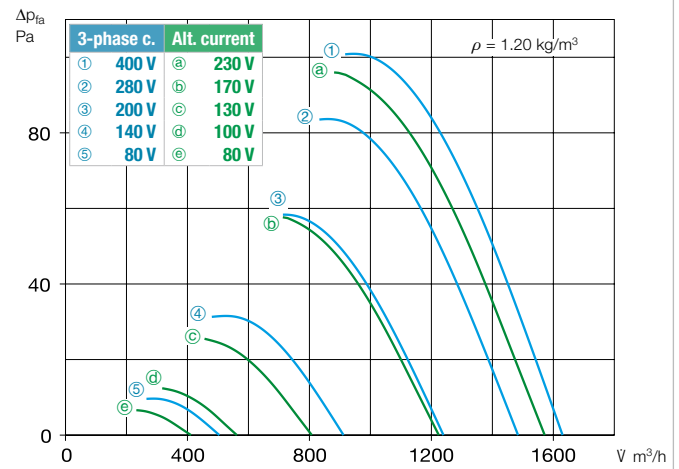
Frequency		Hz	Tot.	125	250	500	1k	2k	4k	8k
L _{WA}	Air noise	dB(A)	88	58	69	80	83	83	79	70
L _{PA, 4m}	Air noise	dB(A)	68	38	49	60	63	63	59	50



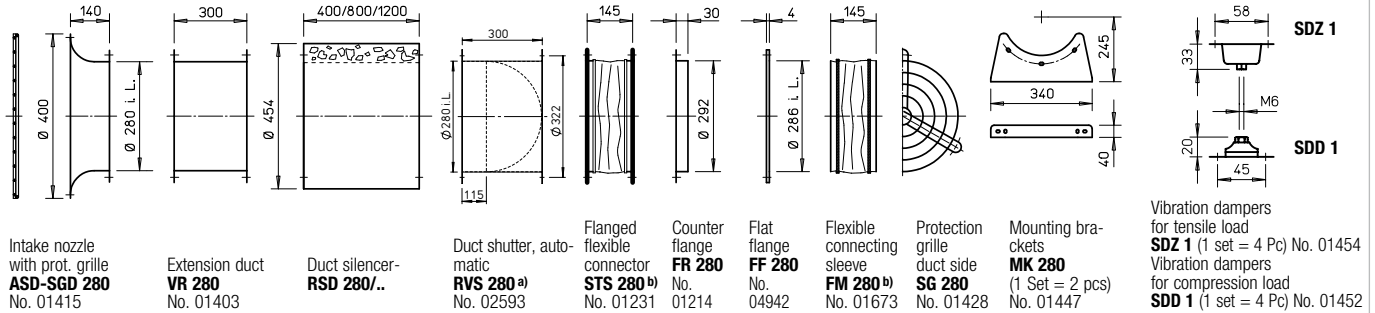
Performance curves VAR 280/4

n=1450 1/min

Frequency		Hz	Tot.	125	250	500	1k	2k	4k	8k
L _{WA}	Air noise	dB(A)	72	48	62	66	69	66	59	49
L _{PA, 4m}	Air noise	dB(A)	52	28	42	46	49	46	39	29



Accessories VAR 280 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 280 Ex Ref. no. 02502

Flexible connecting sleeve
FM 280 Ex Ref. no. 01689

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