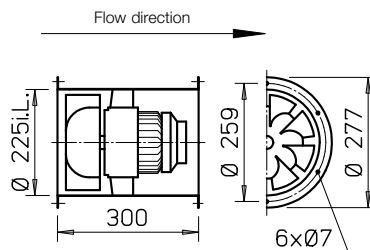


VAR 225



Also available in version:

Dimensions VAR 225



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	258
Selection table	259
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* at rated voltage with control	Wiring diagram	Max. air flow temp. at rated voltage with control	Weight net	Speed controller 5-step Pole chang. switch	Motor protection circuit breaker for connecting built-in thermal contacts	Vibration dampers
		min ⁻¹	m ³ /h	kW	V	A	No.	+°C	ca. kg	Type	Ref. no.	Compr. Tens.
Single-phase alternating current 50 Hz, protection category IP54												
VARW 225/4	06660	1450	900	0.10	230	0.50	966	60	40	10.5	MWS 1.5 ¹⁾ 01947	MW 01579 SDD 1 SDZ 1
VARW 225/2	06661	2770	1778	0.35	230	1.56	966	60	40	10.5	MWS 3 ¹⁾ 01948	MW 01579 SDD 1 SDZ 1
Three-phase current, 50 Hz, protection category IP54												
VARD 225/4	06662	1420	880	0.10	400 ^Y	0.20	469	60	40	10.5	RDS 1 ¹⁾ 01314	MD 05849 SDD 1 SDZ 1
VARD 225/2	06663	2720	1750	0.28	400 ^Y	0.60	469	60	40	10.5	RDS 1 ¹⁾ 01314	MD 05849 SDD 1 SDZ 1
Pole-changeable, 2 speeds (Dahlander winding Y/Y^Y), Three-phase current, 50 Hz, protection category IP54												
VARD 225/4/2	06771	1460/2800	880/1800	0.06/0.30	400	0.22/0.57	472	60	—	10.5	PDA 12 ²⁾ 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 225/4 Ex	06733	1400	950	0.06	230	0.70	757	40	—	12.0	not permitted	— SDD 1 SDZ 1
VARW 225/2 Ex	06734	2650	1780	0.18	230	1.23	757	40	—	12.5	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 225/4 Ex	06664	1400	940	0.12	400	0.41	470	40	—	12.5	not permitted	not permitted SDD 1 SDZ 1
VARD 225/2 Ex	06665	2850	1930	0.25	400	0.72	470	40	—	12.5	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.

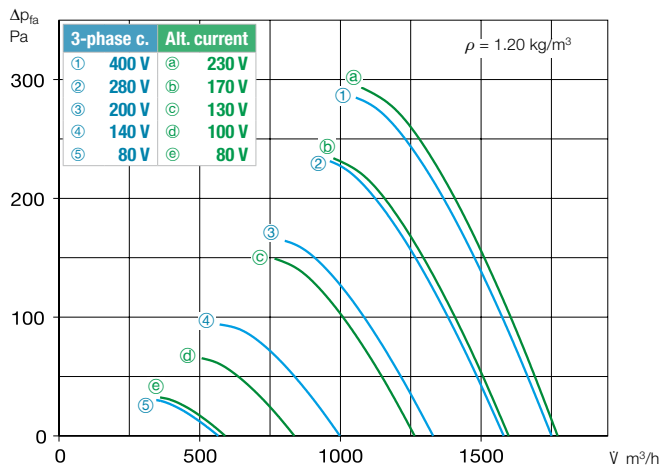
³⁾ Flush-m. version see Switch product page.

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

Performance curves VAR 225/2

n=2800 1/min

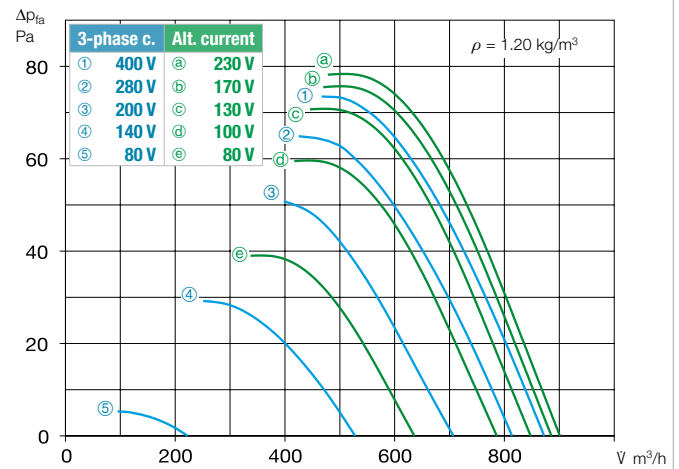
Frequency	Hz	Tot.	125	250	500	1k	2k	4k	8k
L _{WA}	Air noise	dB(A)	81	51	62	74	76	72	63
L _{PA, 4m}	Air noise	dB(A)	61	31	42	54	56	52	43



Performance curves VAR 225/4

n=1450 1/min

Frequency	Hz	Tot.	125	250	500	1k	2k	4k	8k
L _{WA}	Air noise	dB(A)	66	41	55	60	62	59	52
L _{PA, 4m}	Air noise	dB(A)	46	21	35	40	42	39	32



Accessories VAR 225 Description see page 280 ff.

Intake nozzle
with prot. grille
ASD-SGD 225
No. 01413

Extension duct
VR 225
No. 01401

Duct silencer-
RSD 225/..

Duct shutter, auto-
matic
RVS 225 a)
No. 02591

Flanged
flexible
connector
STS 225 b)
No. 01218

Counter
flange
FR 225
No. 01201

Flexible
connecting
sleeve
FM 225 b)
No. 01671

Protection
grille
duct side
SG 225
No. 01215

Mounting bra-
ckets
MK 225
(1 Set = 2 pcs)
No. 01446

Vibration dampers
for tensile load
SDZ 1 (1 set = 4 Pcs) No. 01454
Vibration dampers
for compression load
SDD 1 (1 set = 4 Pcs) No. 01452

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 225 Ex Ref. no. 02500

Flexible connecting sleeve

FM 225 Ex Ref. no. 01687

Filters and silencers 485 ff.

Shutters and ventilation grilles 565 ff.

Speed controllers, controllers and switches 603 ff.