

Description

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 IP 54. 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 converter 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 IP 55) 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 reactivation 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 10 f. for noise emissions and room acoustics.

Reference	Page
Techn. description	228
Selection table	229
Planning information	10 ff.

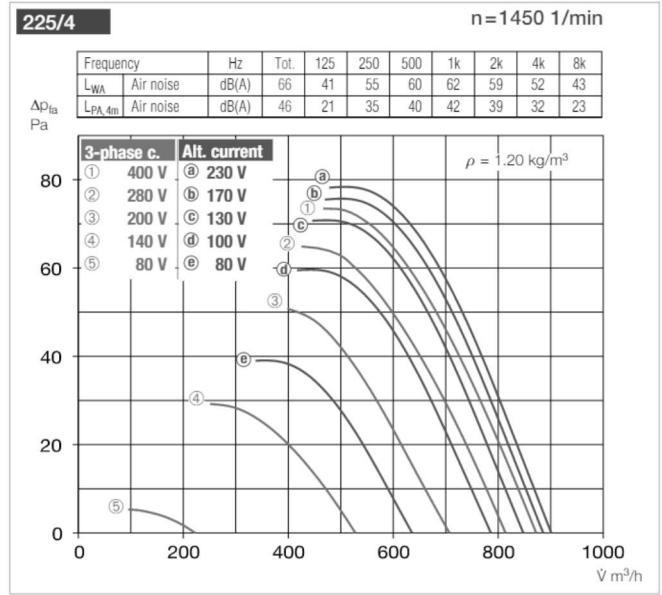
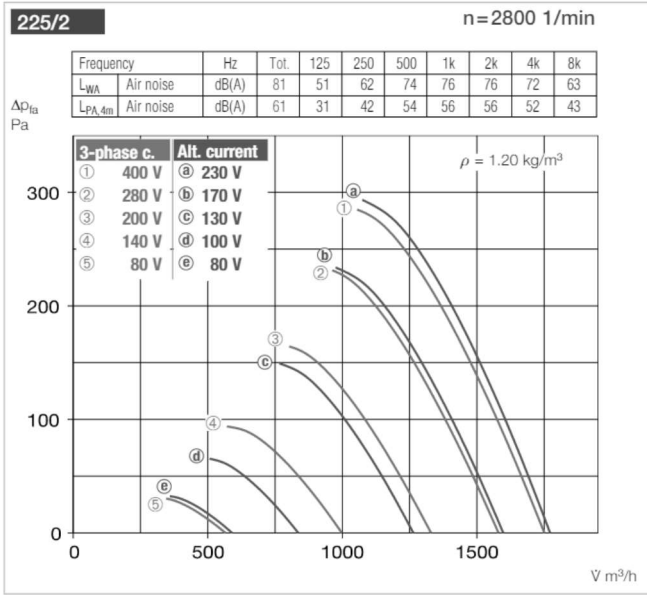
Special design

Different voltage, frequency, protection category, higher air flow temperature and acid protection upon request.

The technical information on p. 15 ff. must be observed.

Type	Ref. no.	Speed min ⁻¹	Flow rate free blowing V m ³ /h	Power consumption* kW	Voltage V	Current consump.*		Wiring diagram No.	Max. air flow temp.		Weight net ca. kg	Speed controller 5-step pole chang. switch		Motor protection circuit breaker for connecting built-in thermal contacts		Vibration damper	
						at rated voltage A	with control A		at rated voltage +°C	with control +°C		Type	Ref. no.	Type	Ref. no.	Compr.	Tension Type
Single phase alternating current, 50 Hz, protection category IP 54																	
VARW 225/4	06660	1450	900	0.10	230	0.50	0.55	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	1.90	2.50	966	60	40	10.5	MWS 3 ¹⁾	01948	MW	01579	SDD 1	SDZ 1
Three-phase current, 50 Hz, protection category IP 54																	
VARD 225/4	06662	1420	880	0.10	400Y	0.20	0.20	469	60	40	10.5	RDS 1 ^{1) 4)}	01314	MD	05849	SDD 1	SDZ 1
VARD 225/2	06663	2720	1750	0.28	400Y	0.60	0.60	469	60	40	10.5	RDS 1 ^{1) 4)}	01314	MD	05849	SDD 1	SDZ 1
Pole-changeable, 2 speeds (Dahlander winding Y/YY), three-phase current, 50 Hz, protection category IP 54																	
VARD 225/4/2	06771	1460/2800	880/1800	0.06/0.30	400	0.22/0.57	—	472	60	—	10.5	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 IP 55																	
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
Explosion-proof, II 2G Ex h IIB + H₂ T3 Gb, motor Ex e, three-phase current 400 Volt, 50 Hz, protection category IP 55																	
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

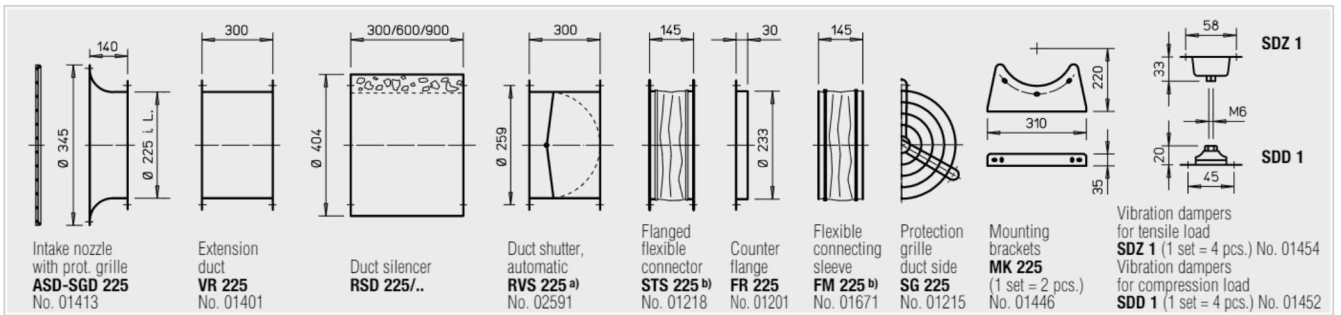
* For ex-types: Motor ratings, see information on p. 16. ¹⁾ Includes motor protection circuit breaker. ²⁾ Includes operating and speed switch. ³⁾ Flush-mounted version see switch product page.
⁴⁾ Frequency converter with integrated sine filter, Type FU-BS 2.5, No. 05459, see FU product page.



Axial and VAR fans

Other accessories	Page
Accessories for ex-proof fans	
Flanged flexible connector Type STS 225 Ex	No. 02500
Flexible connecting sleeve Type FM 225 Ex	No. 01687
Filters and silencers	455 ff.
Shutters and ventilation grilles	533 ff.
Speed controllers, controllers and switches	571 ff.

Accessories See page 251 ff. for description.



^{a)} Shutter, motorised see accessories product pages. ^{b)} Types for explosion-proof fans see above.