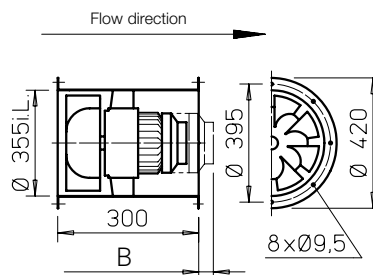


VAR 355



Also available in version:

Dimensions VAR 355



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; made of hot-dip galvanised steel for types with $n = 2800 \text{ min}^{-1}$.

■ **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 explosion-proof models and type VARD 355/4/2) are equipped with thermal contacts. These should be wired with the motor protection circuit breaker (see type table) for effective motor protection. 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	Dim. B Motor protrusion	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	No.	Compr.	Tens.
		min ⁻¹	m ³ /h	kW	V	A	A	No.	+°C	+°C	ca. kg	mm						
Single-phase alternating current, 50 Hz, protection category IP54																		
VARW 355/4	06682	1380	3470	0.37	230	3.30	2.35	966	60	40	21.0	22	MWS 3 ¹⁾	01948	MW	01579	SDD 1	SDZ 1
Three-phase current, 50 Hz, protection category IP54																		
VARD 355/4	06683	1440	3550	0.40	400	0.87	1.20	469	60	40	15.5	12	RDS 1 ^{1) 2)}	01314	MD	05849	SDD 1	SDZ 1
Two-speed, three-phase current, 50 Hz, Δ connection, protection category IP54																		
VARD 355/2/2	06684	2415/2790	6040/7220	2.06/2.81	400 Δ	3.40/5.40	—	520	60	30	30.3	94	RDS 7 ¹⁾	01578	M 4 ²⁾	01571	SDD 1	SDZ 1
Pole-changeable, 2 speeds (Dahlander winding Δ/Δ), Three-phase current, 50 Hz, protection category IP54																		
VARD 355/4/2	06779	1470/2870	3830/7500	0.48/3.11	400	1.35/5.50	—	471	40	—	29.0	80	PDA 12 ³⁾	05081	—	—	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 355/4 Ex	06685	1420	3740	0.37	400	1.15	—	470	40	—	19.0	—	not permitted	—	not permitted	—	SDD 1	SDZ 1
Explosion-proof, II 2G Ex h IIB T3 Gb, Motor Ex e, three-phase current 400 Volt, 50 Hz, protection category IP55																		
VARD 355/2 Ex ⁴⁾	06686	2910	7580	2.50	400	4.90	—	498	40	—	33.0	77	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.

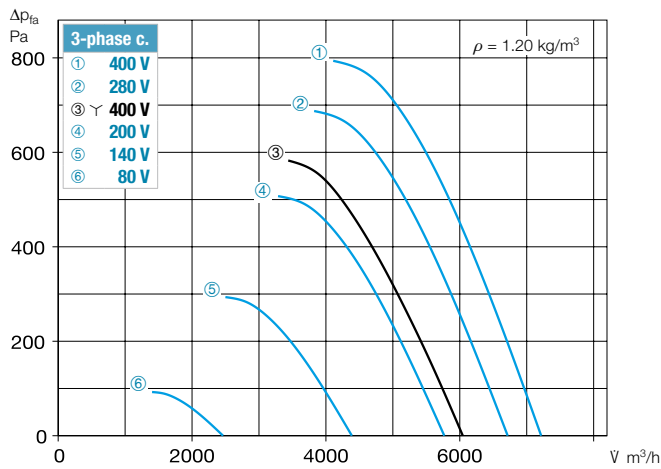
⁴⁾ A vibration monitoring system (on-site) must be provided according to DIN EN 14986.

⁵⁾ Frequency inverter with integrated sine filter, Type FU-BS 2.5, No. 05459, see product page FU.

Performance curves VAR 355/2

n=2800 1/min

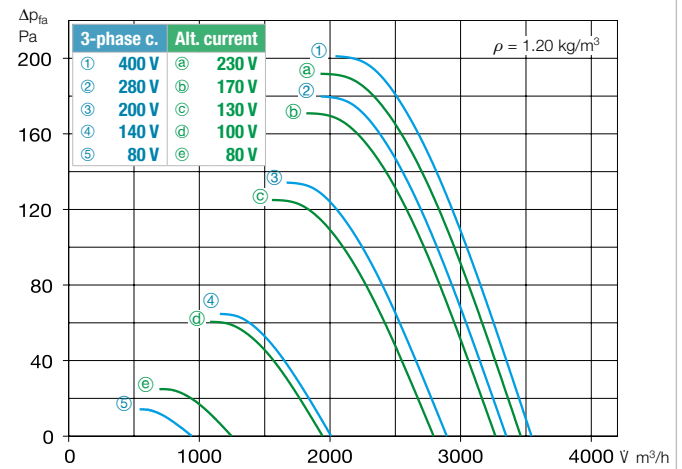
Frequency	Hz	Tot.	125	250	500	1k	2k	4k	8k	
L _{WA}	Air noise	dB(A)	95	65	76	88	90	90	86	77
L _{PA, 4m}	Air noise	dB(A)	75	45	56	68	70	70	66	57



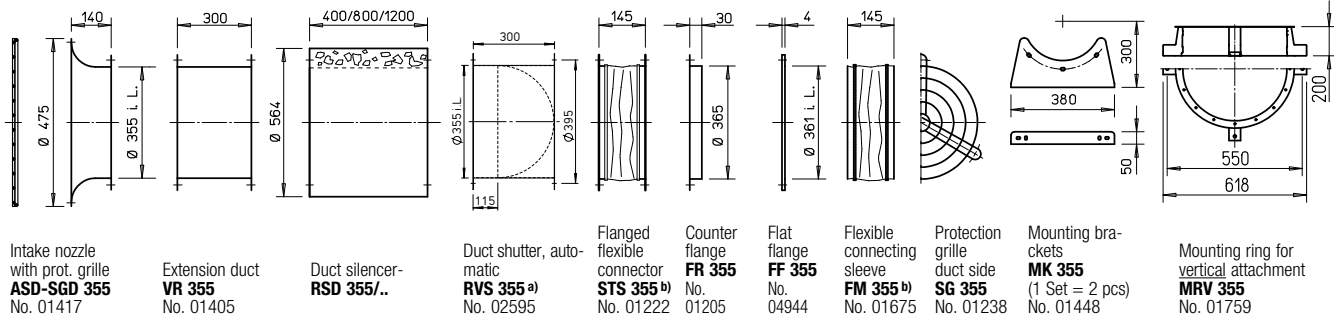
Performance curves VAR 355/4

n=1400 1/min

Frequency		Hz	Tot.	125	250	500	1k	2k	4k	8k
L _{WA}	Air noise	dB(A)	80	55	69	73	76	73	66	56
L _{PA, 4m}	Air noise	dB(A)	60	35	49	53	56	53	46	36



Accessories VAR 355 Description see page 278 ff.



a) Shutter, motorised see Accessories product pages. b) Types for explosion-proof fans see above.

Other accessories Page

^{b)}Access. for expl.-proof fans

Flanged flexible connector	
STS 355 Ex	Ref. no. 02504
Flexible connecting sleeve	
FM 355 Ex	Ref. no. 01691

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