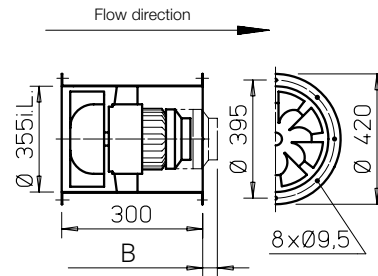


**VAR 355**



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 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	254
Selection table	255
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.

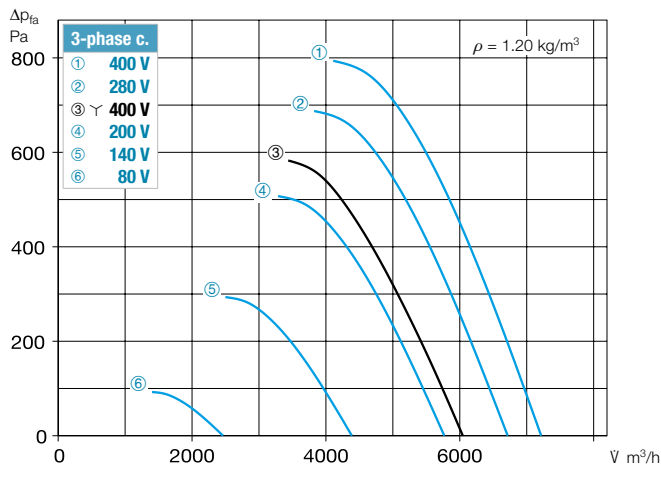
Type	Ref. no.	Speed min <sup>-1</sup>	Flow rate free-blow. V m <sup>3</sup> /h	Power consump.* kW	Voltage V	Current consumption*		Wiring diagram No.	Max. air flow temp.		Weight net ca. kg	Dim. B Motor protru- sion mm	Speed controller 5-step Pole chang. switch		Motor pro- tection circuit breaker for connecting built-in thermal contacts		Vibration dampers		
						at rated voltage A	with control A		at rated voltage +°C	with control +°C			Type	Ref. no.	Type	No.	Compr. Type	Tens. Type	
<b>Single-phase alternating current, 50 Hz, protection category IP54</b>																			
VARW 355/4	06682	1380	3470	0.37	230	3.30	2.35	966	60	40	21.0	22	MWS 3 <sup>1)</sup>	01948	MW	01579	SDD 1	SDZ 1	
<b>Three-phase current, 50 Hz, protection category IP54</b>																			
VARD 355/4	06683	1440	3550	0.40	400	0.87	1.20	469	60	40	15.5	12	RDS 1 <sup>1) 2)</sup>	01314	MD	05849	SDD 1	SDZ 1	
<b>Two-speed, three-phase current, 50 Hz, <math>\gamma/\Delta</math> connection, protection category IP54</b>																			
VARD 355/2/2	06684	2415/2790	6040/7220	2.06/2.81	400 $\gamma/\Delta$	3.40/5.40	–	520	60	30	30.3	94	RDS 7 <sup>1)</sup>	01578	M 4 <sup>2)</sup>	01571	SDD 1	SDZ 1	
<b>Pole-changeable, 2 speeds (Dahlander winding <math>\gamma/\gamma\gamma</math>), Three-phase current, 50 Hz, protection category IP54</b>																			
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 <sup>3)</sup>	05081	–	–	SDD 1	SDZ 1	
Ex	<b>Explosion-proof, II 2G Ex h IIB + H<sub>2</sub> T3 Gb, Motor Ex e, three-phase current 400 Volt, 50 Hz, protection category IP55</b>																		
VARD 355/4 Ex	06685	1420	3740	0.37	400	1.08	–	470	40	–	19.0	–	–	–	–	–	SDD 1	SDZ 1	
Ex	<b>Explosion-proof, II 2G Ex h IIB T3 Gb, Motor Ex e, three-phase current 400 Volt, 50 Hz, protection category IP55</b>																		
VARD 355/2 Ex <sup>4)</sup>	06686	2910	7580	2.50	400	4.90	–	498	40	–	33.0	77	–	–	–	–	SDD 1	SDZ 1	

\* For Ex types: Motor ratings see information on page 20. <sup>1)</sup> incl. motor protection circuit breaker. <sup>2)</sup> includes operating and speed switch. <sup>3)</sup> Flush-m. version see Switch product page.  
<sup>4)</sup> A vibration monitoring system (on-site) must be provided according to DIN EN 14986. <sup>5)</sup> 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

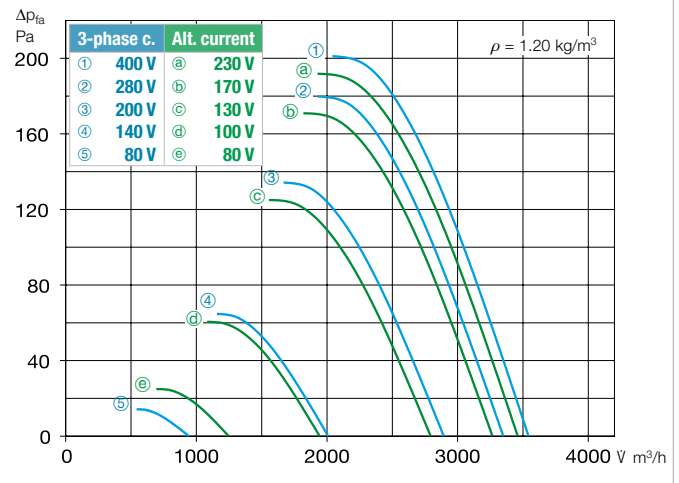
Frequency	Hz	Tot.	125	250	500	1k	2k	4k	8k	
L <sub>WA</sub> Air noise		dB(A)	95	65	76	88	90	90	86	77
L <sub>PA,4m</sub> Air noise		dB(A)	75	45	56	68	70	70	66	57



## Performance curves VAR 355/4

n=1400 1/min

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



## Accessories VAR 355 Description see page 276 ff.

Intake nozzle with prot. grille <b>ASD-SGD 355</b> No. 01417	Extension duct <b>VR 355</b> No. 01405	Duct silencer- <b>RSD 355/..</b>	Duct shutter, auto- matic <b>RVS 355 a)</b> No. 02595	Flanged flexible connector <b>STS 355 b)</b> No. 01222	Counter flange <b>FR 355</b> No. 01205	Flat flange <b>FF 355</b> No. 04944	Flexible connecting sleeve <b>FM 355 b)</b> No. 01675	Protection grille duct side <b>SG 355</b> No. 01238	Mounting brackets <b>MK 355</b> (1 Set = 2 pcs) No. 01448	Mounting ring for vertical attachment <b>MRV 355</b> No. 01759
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a) Shutter, motorised see Accessories product pages. b) Types for explosion-proof fans see above.

Axial and VAR fans

Other accessories	Page
<b>Access. for expl.-proof fans</b>	
<b>Flanged flexible connector STS 355 Ex</b>	Ref. no. 02504
<b>Flexible connecting sleeve FM 355 Ex</b>	Ref. no. 01691
Filters and silencers	481 ff.
Shutters and ventilation grilles	561 ff.
Speed controllers, controllers and switches	599 ff.