
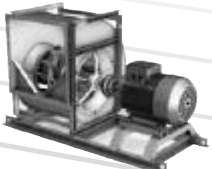









Control Panel





TEMP/REM	RZM	RZP	RZA	DD	DDMB	DDM
						
•	•	•	•	•	•	•
•	•	•	•	•	•	•
•	•	•	•	•	•	•
REM: 22.000 m³/h	•	•	•	•	•	•
100.000 m³/h	•	•	•	•	•	•
200.000 m³/h	•	•	•	•	•	•
40 °C	•	•	•	•	•	•
60 °C	•	•	•	•	•	•
80 °C	•	•	•	•	•	•
ATEX	•	•	•	•	•	•
Voltage	•	•	•	•	•	•
Brushless-DC	•	•	•	•	•	•
External inverter	•	•	•	•	•	•
Forward curved blades galvanised sheet steel	•	•	•	•	•	•
Backward curved blades coated steel	•	•	•	•	•	•
Galvanised steel	•	•	•	•	•	•
Coated steel	•	•	•	•	•	•
Single inlet	•	•	•	•	•	•
Double inlet	•	•	•	•	•	•
ErP status	•	•	•	•	•	•

Flow rate

Media temperature

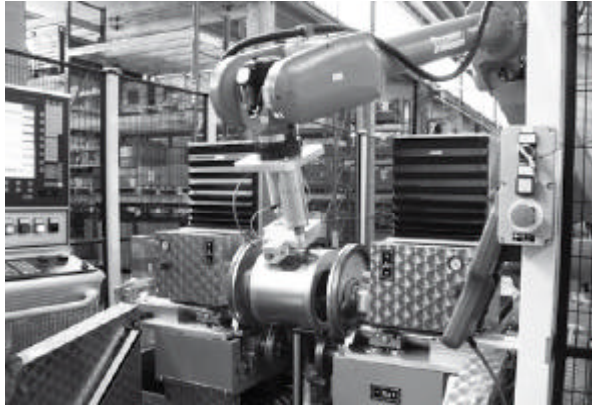
Speed control

Impeller

Casing material

Inlet type

# Nicotra Gebhardt technologies like ...



Automated manufacture of compact scroll and impeller with forward curved blades



Own AC and Brushless-DC motor production for optimal tuning of motor and fan!

## proSELECTA II

proSELECTA II is a technical selection program that allows you to configure your own individually designed fan. It provides you with the opportunity to choose from the entire range of fan types and their associated options.

### Simple and reliable selection

The result from proSELECTA II is the provision of all the technical data for your fan, including sound level data, dimension specifications and accessories. Apart from that, as a registered user, your purchase prices are provided. Additionally fully dimensioned drawings in dxf format are available, which can be downloaded and transferred straight into your CAD system.

So that you can be sure. Models and options that are technically not permissible, are automatically excluded in proSELECTA II. So there is no chance that you will configure a "wrong" device option.

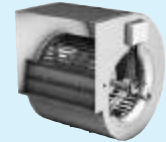
You can register as a proSELECTA II user with us, which enables us to offer you faster order processing. What this means for you is:

- ▶ The complete configuration of your fan with its associated system accessories and belt drive layout.
- ▶ The possibility to produce fans that operate via a frequency inverter.
- ▶ The option of saving your own fan configuration on our server.
- ▶ The opportunity to modify your saved configuration, even over the phone to your Nicotra Gebhardt representative.



**High performance centrifugal fans DDM**

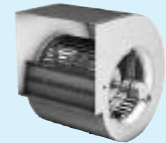
double width, double inlet, (DWDI),  
with built-in, optimised external rotor motor,  
made of galvanised sheet steel;  
available in various models;  
Impeller with forward curved blades of galvanised steel plate



DDM

**High performance centrifugal fans DDMB**

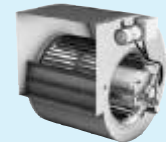
double width, double inlet, (DWDI),  
with built-in, brushless DC external rotor motor and external commutation unit,  
made of galvanised sheet steel;  
available in various models;  
Impeller with forward curved blades of galvanised steel plate



DDMB

**High performance centrifugal fans DD**

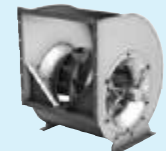
double width, double inlet, (DWDI),  
built-in, optimised internal rotor motor,  
made of galvanised sheet steel;  
available in various models;  
Impeller with forward curved blades of galvanised steel plate



DD

**High performance centrifugal fans RZA rotavent**

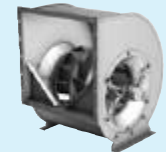
double inlet,  
with built-in, low-slip external rotor motor,  
made of galvanised sheet steel or welded and coated,  
with multi position feet and connecting flange at discharge;  
Impeller with true aerofoil blades, welded and painted – system rotavent



RZA

**High performance centrifugal fans RZP rotavent**

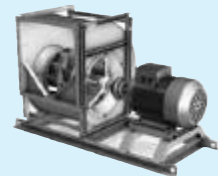
double inlet,  
with built-in, brushless DC external rotor motor and external commutation unit,  
made of galvanised sheet steel;  
with multi position feet and connecting flange at discharge;  
Impeller with true aerofoil blades, welded and painted – system rotavent



RZP

**High performance centrifugal fans RZM rotavent**

double inlet,  
fan with directly coupled motor fitted on pedestal and base frame,  
made of galvanised sheet steel with heavy duty reinforced side frame,  
connecting flange at discharge,  
Impeller with true aerofoil blades, welded and painted – system rotavent



RZM

**High performance centrifugal fans REM/TEM**

single inlet, with flanged IEC standard motor out of air stream,  
in unterschiedlichen Ausführungsvarianten,  
Impeller with true aerofoil blades, welded and painted (REM)  
or forward curved blades of galvanised steel plate (TEM),  
with or without pedestal for horizontal or vertical mounting

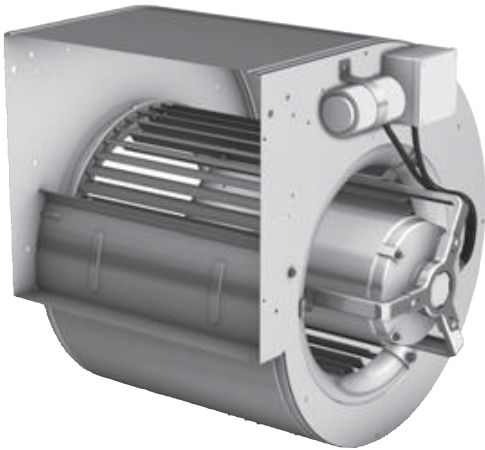
TEM  
REM**Fittings / Accessories**

- ▶ complete system accessories
- ▶ fittings and options

Fittings  
Accessories**Technical Description**

- ▶ Descriptions
- ▶ Operating limits
- ▶ Notes

Technical  
Description



## The best fan for your application!

DD range – direct driven fans

Direct driven centrifugal fans of DD range with forward curved impeller directly mounted on the shaft of the internal rotor motor are the ideal solution for your applications in the HVAC business.

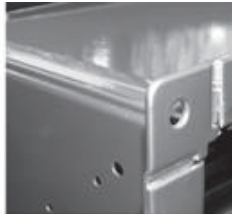
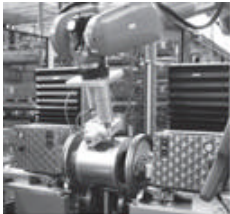
The fact of manufacturing by ourselves each fan component – the casing, the impeller and motor – enables us to create fans that perfectly meet the requirements of high performances and low power consumptions.

The wide range of different versions and motor types allows you to find the fan exactly matching what you really need.

You anyway get the generally recognized advantages of the direct drive technology :

- **Maintenance free**
- **No transmission losses**
- **Long fan life time**
- **High reliability**
- **Low operating costs**

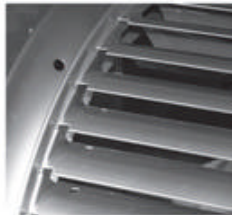
And, more, all the additional product advantages of the DD range are at your fingertips.



### Compact casing!

Aerodynamically optimized in terms of both airflow and design, scrolls are made of galvanized steel and automatically assembled using an innovative procedure, providing a sturdy and long-lasting product.

- **without welding points for no corrosion troubles**
- **high precision manufacturing process for high quality product**



### Real forward curved impeller!

The impeller has been optimized for the best efficiency, match to the special motor features.

We manufacture the high performance impellers through a highly – automated and innovative production process.

- **low noise level**
- **low power consumption**



### Optimized internal rotor motor

The fan impeller is directly mounted on the motorshaft thus providing efficient motor cooling by the fan airflow.

Motor speed can be adjusted either by the use of transformers and TRIAC regulators. Motors are generally fitted with thermal protector for protection against overheating.

- **high reliability and efficiency**
- **wide range of operative conditions**



### Easy electrical connection

All fans could be provided with connection box, terminal block or loose cable.

A wiring diagram sticker, placed on each fan, describes the correct electrical connection.

- **fast and easy wiring**
- **safe operation**

**Program overview:**

DD range

This kind of fans are specially conceived for use in dust-free environments, at temperatures up to +40°C, or higher on selected models. The performance data have been obtained in a laboratory registered by AMCA for AMCA 210/99 air performance testing. Data are not certified by AMCA.





**Fan range DD**

- Impeller size (width and diameter) up to 18"
- Speed variation either by step-transformers or stepless
- Internal rotor motor with intergrated thermal protector
- Fan models suitable for 60Hz supply are available
- Air Flow up to 18,000m<sup>3</sup>/h
- Static pressure up to 800Pa

**The variety of DD**

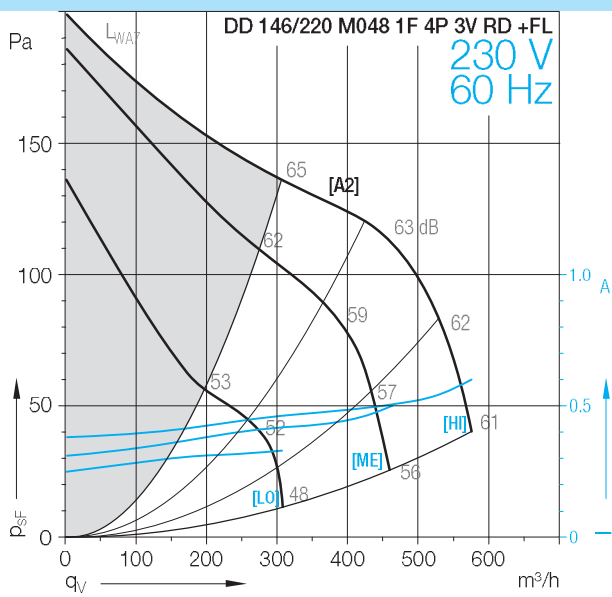
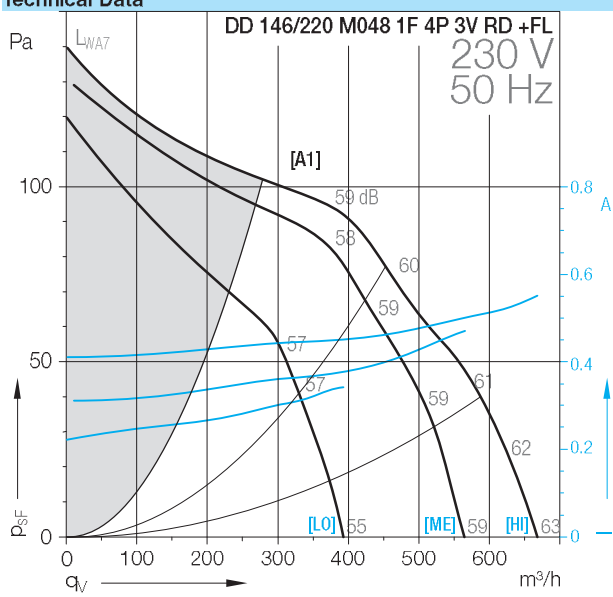
We have the right fan for all your application!

Many different sizes, versions and motor types are available in the DD range.

Version	Description	Figure
DD	Lap-jointed scroll made from galvanized steel and forward curved blades impeller, directly mounted on an internal rotor motor.	
+SCT	with terminal box mounted	
+FL	with discharge flange mounted	
+SB	with housing feet either mounted or loose	

# DD-146/220

**Technical Data**





# DD-146/220

Technical Data										
	Speed control	Curves	Nominal motor power	Poles	Phases	Connection	Mains frequency	Max. power consumption	Max. current consumption	Speed
DD 146/220			W	-			Hz	W	A	1/min
M048 1F 4P 3V RD +FL	*	[A1/A2]	40	4	1~		50/60	123	0.5	1280

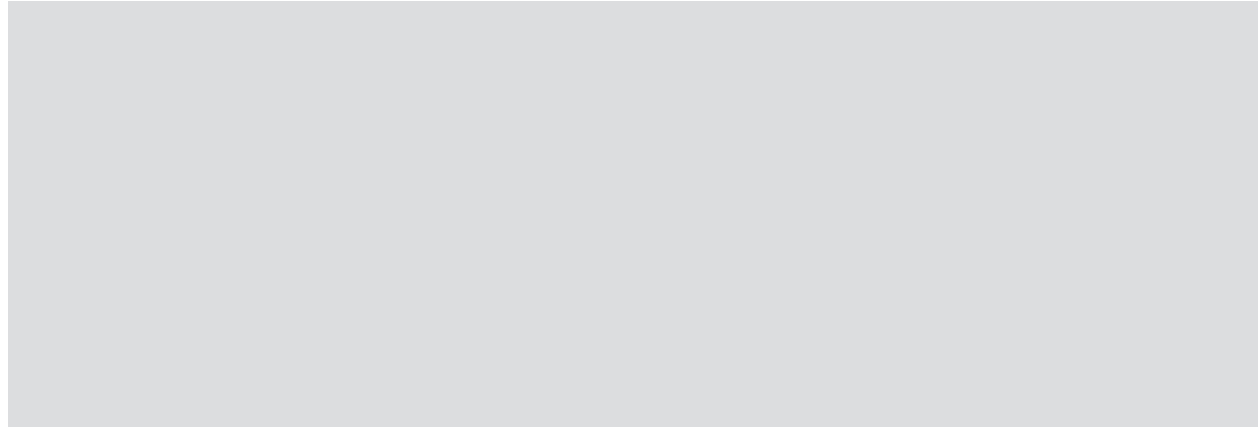
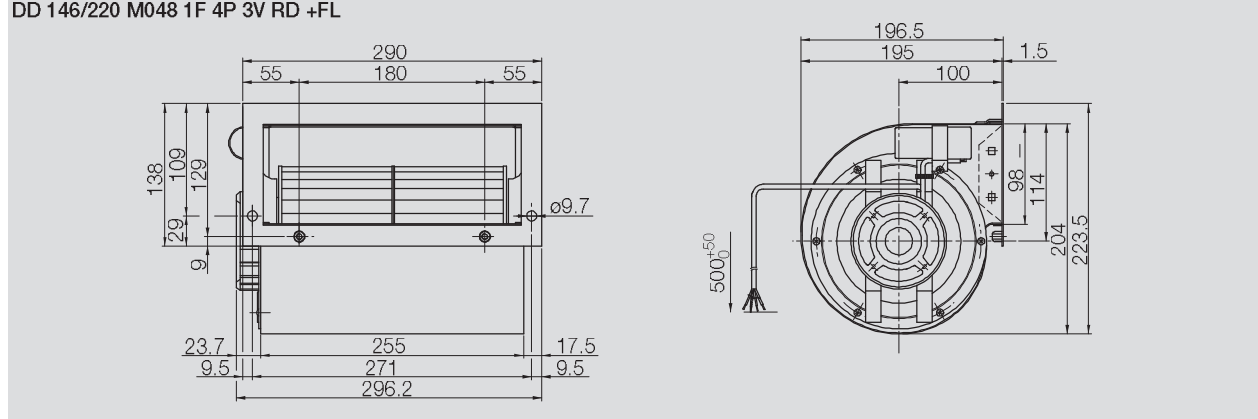
  

Technical Data										
	Operating Capacitor	Nominal capacitor voltage	Motor protection class	Motor thermal class	Thermal protection	Media Temperature max.	Fan weight	Density of media	Installation type (ISO 5801)	Article number
DD 146/220	µF	V				°C	kg	kg/m <sup>3</sup>		
M048 1F 4P 3V RD +FL	2	450	IP32	B	INT	70	6	1.2	B	61090R

- (1) = Speed controllable via Transformer
- (2) = Speed controllable via TRIAC or Transformer
- (3) = Speed controllable via Inverter
- \* = No speed control available

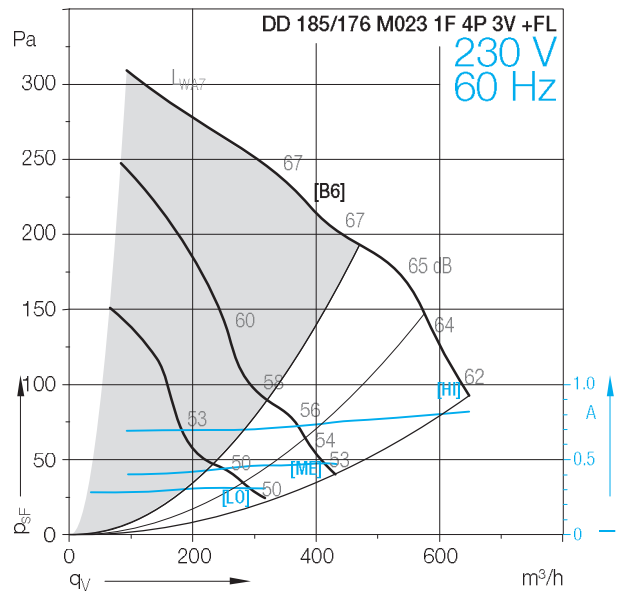
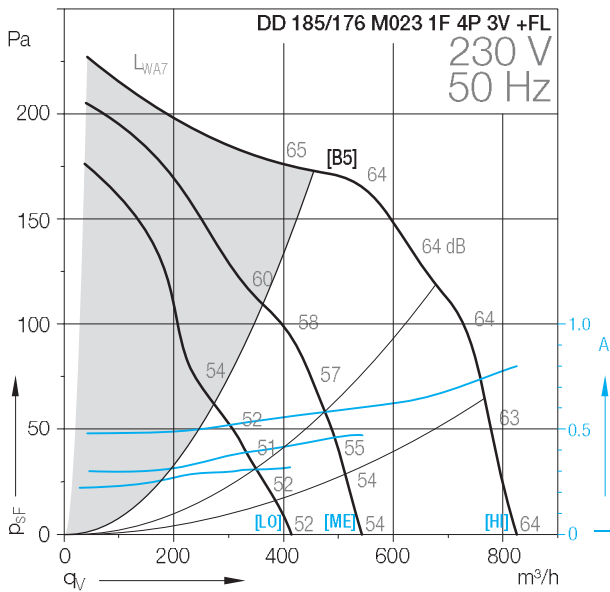
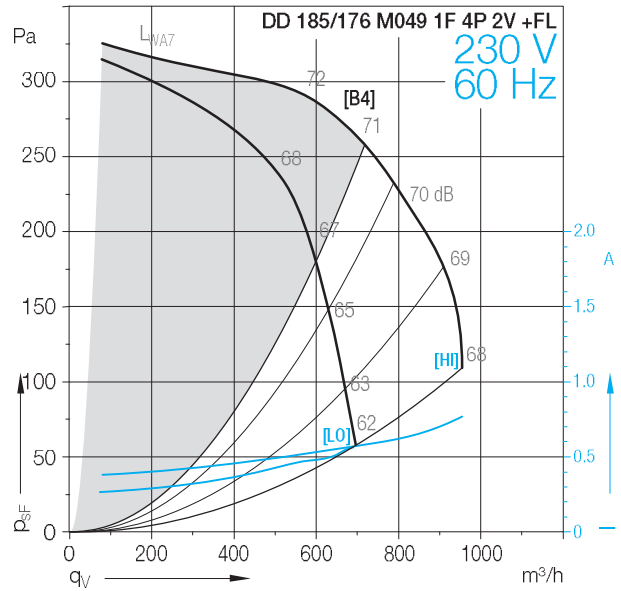
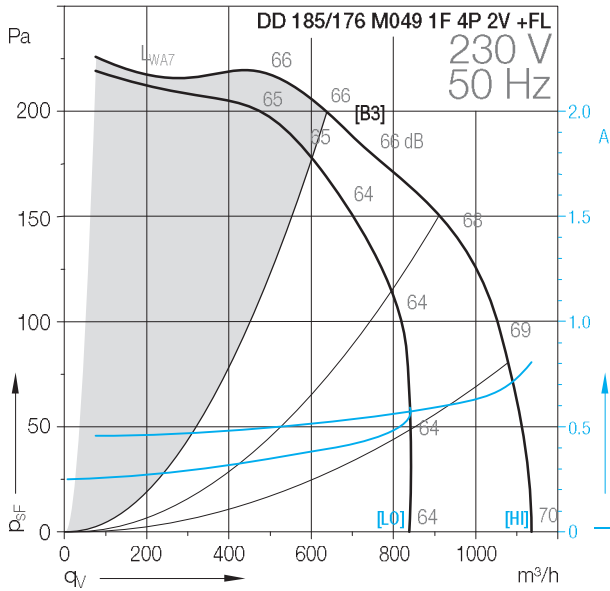
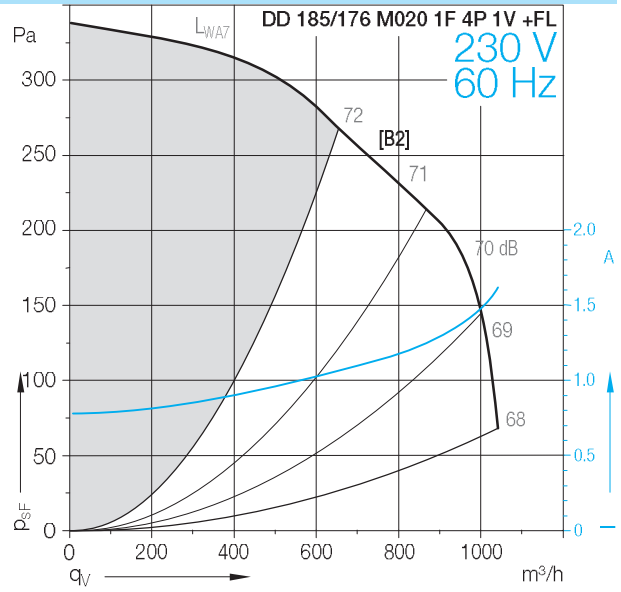
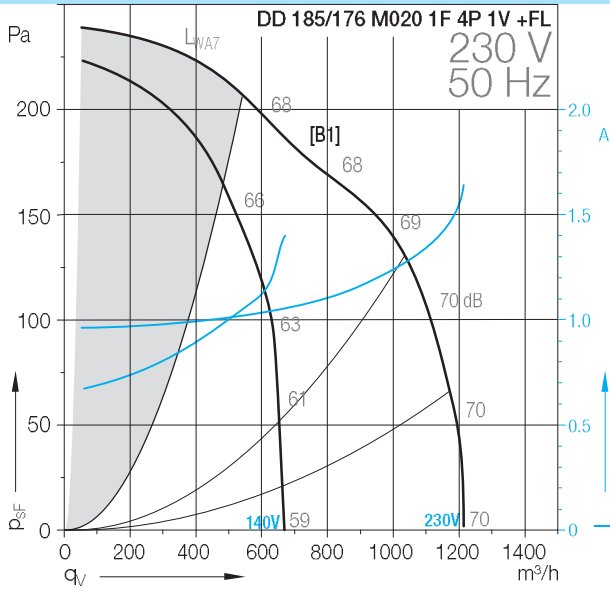
[HI] High speed, [ME] Medium speed, [LO] Low speed  
**Attention!** We suggest to do not use the fan in the grey marked area! The noise ratings given in the performance curves are sound power level  $L_{WA,7}$ , see „Technical Description“.

**Dimensions** in mm, subject to change.  
**DD 146/220 M048 1F 4P 3V RD +FL**



# DD-185/176

## Technical Data



# DD-185/176

## Technical Data

DD 185/176	Speed control	Curves	Nominal motor power <b>W</b>	Poles -	Phases	Connection	Mains frequency <b>Hz</b>	Max. power consumption <b>W</b>	Max. current consumption <b>A</b>	Speed <b>1/min</b>
M020 1F 4P 1V +FL	(2)	[B1/B2]	92	4	1~		50/60	369	1.6	1280
M049 1F 4P 2V +FL	*	[B3/B4]	105	4	1~		50/60	355	1.5	1300
M023 1F 4P 3V +FL	*	[B5/B6]	45	4	1~		50/60	186	0.7	1370

## Technical Data

DD 185/176	Operating Capacitor $\mu\text{F}$	Nominal capacitor voltage <b>V</b>	Motor protection class	Motor thermal class	Thermal protection	Media Temperature max. $^{\circ}\text{C}$	Fan weight <b>kg</b>	Density of media $\text{kg/m}^3$	Installation type (ISO 5801)	Article number
M020 1F 4P 1V +FL	4	450	IP20	B	INT	60	5	1.2	B	6109Y8
M049 1F 4P 2V +FL	4	450	IP32	B	EXT	40	5	1.2	B	610974
M023 1F 4P 3V +FL	4	450	IP32	B	INT	50	6	1.2	B	610937

(1) = Speed controllable via Transformer

(2) = Speed controllable via TRIAC or Transformer

(3) = Speed controllable via Inverter

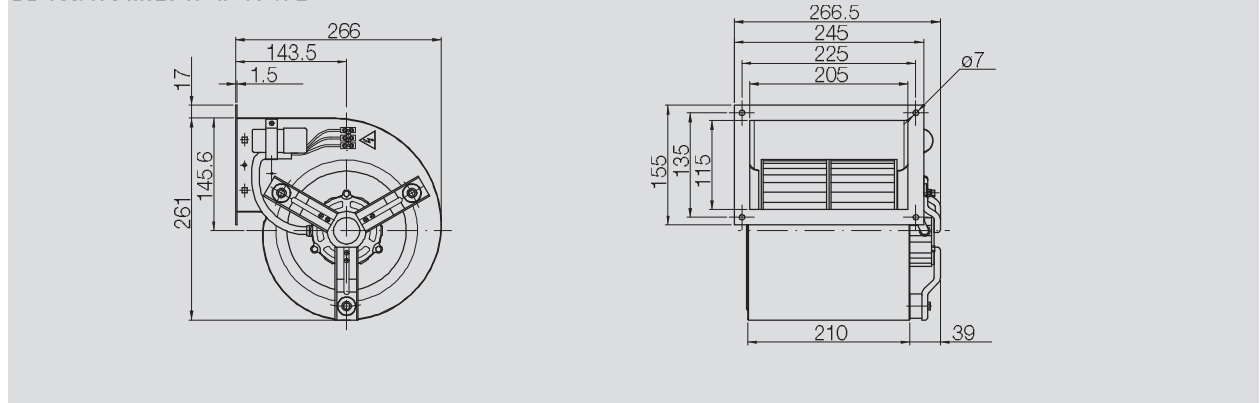
\* = No speed control available

[HI] High speed, [ME] Medium speed, [LO] Low speed

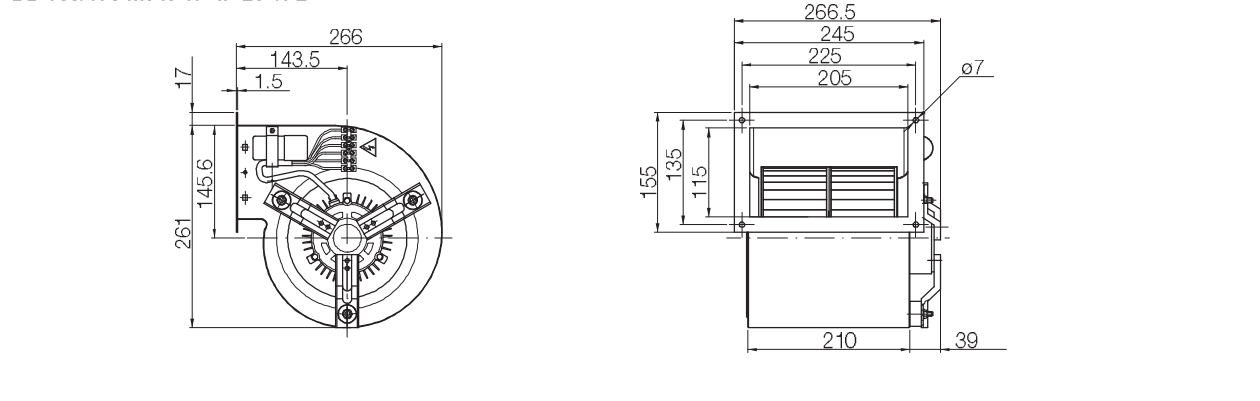
**Attention!** We suggest to do not use the fan in the grey marked area! The noise ratings given in the performance curves are sound power level  $L_{WA7}$ , see „Technical Description“.

## Dimensions in mm, subject to change.

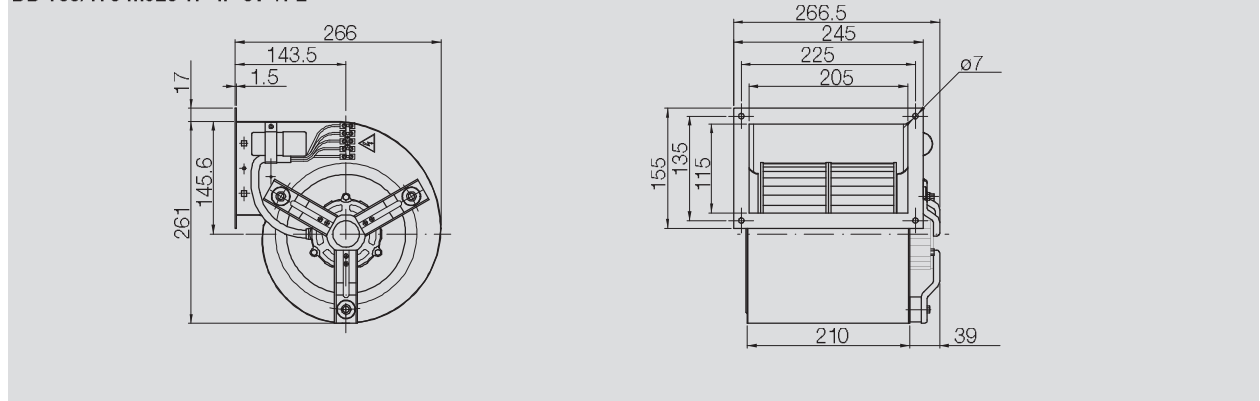
### DD 185/176 M020 1F 4P 1V +FL



### DD 185/176 M049 1F 4P 2V +FL

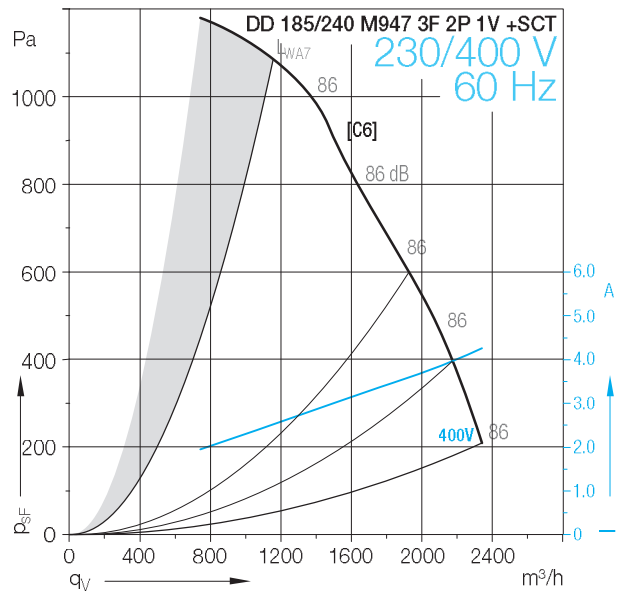
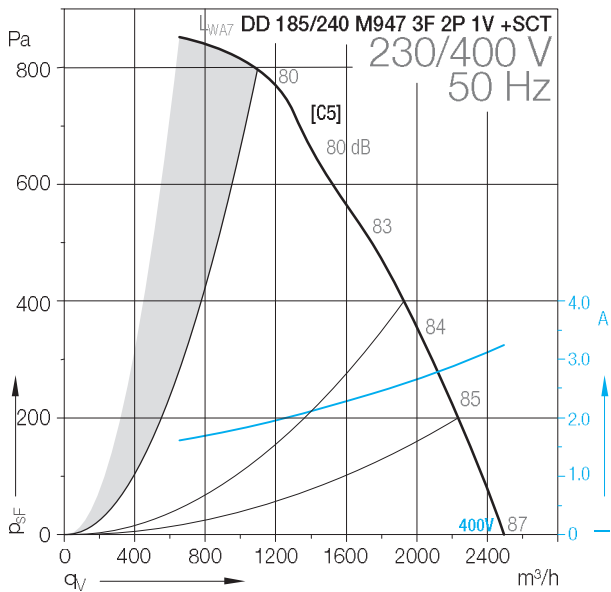
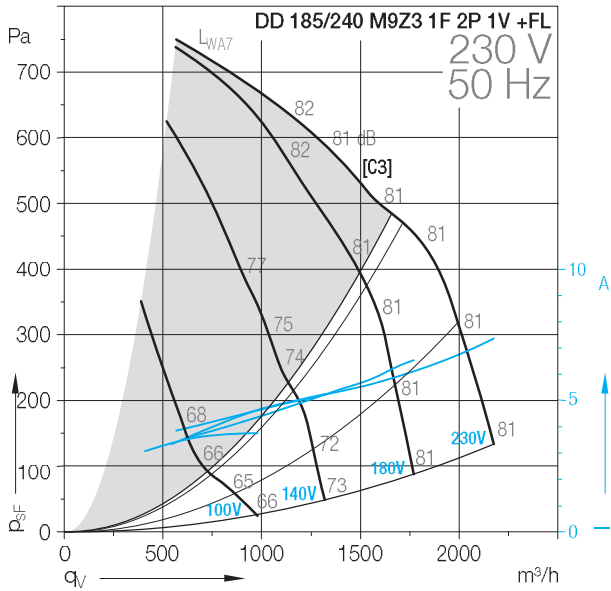
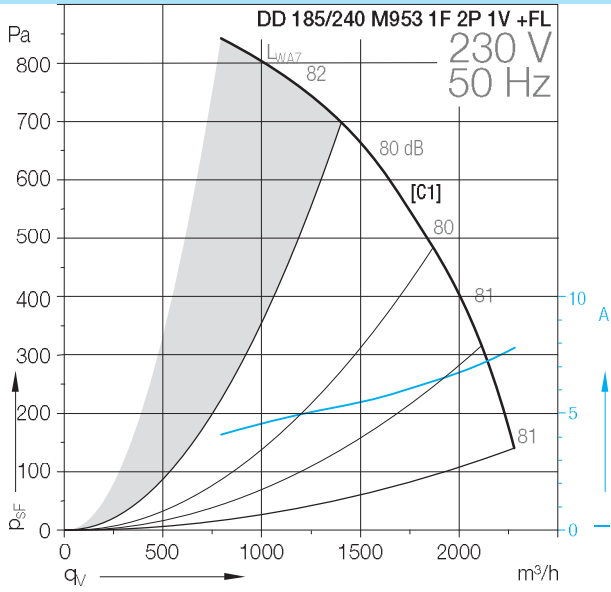


### DD 185/176 M023 1F 4P 3V +FL



# DD-185/240

## Technical Data



# DD-185/240

## Technical Data

	Speed control	Curves	Nominal motor power <b>W</b>	Poles <b>-</b>	Phases	Connection	Mains frequency <b>Hz</b>	Max. power consumption <b>W</b>	Max. current consumption <b>A</b>	Speed <b>1/min</b>
DD 185/240										
M953 1F 2P 1V +FL	*	[C1]	1000	2	1~		50	1804	7.6	2700
M9Z3 1F 2P 1V +FL	(2)	[C3]	900	2	1~		50	1725	7.1	2600
M947 3F 2P 1V +SCT	*	[C5/C6]	750	2	3~	$\Delta Y$	50/60	2100	3.3	2900

## Technical Data

	Operating Capacitor $\mu F$	Nominal capacitor voltage <b>V</b>	Motor protection class	Motor thermal class	Thermal protection	Media Temperature max. $^{\circ}C$	Fan weight <b>kg</b>	Density of media <b>kg/m<sup>3</sup></b>	Installation type (ISO 5801)	Article number
DD 185/240										
M953 1F 2P 1V +FL	20	450	IP20	B	INT	40	10	1.2	B	6109C7
M9Z3 1F 2P 1V +FL	20	450	IP20	F	INT	40	10	1.2	B	6109GH
M947 3F 2P 1V +SCT			IP20	F	NO	40	8	1.2	B	6109Z9

(1) = Speed controllable via Transformer

(2) = Speed controllable via TRIAC or Transformer

(3) = Speed controllable via Inverter

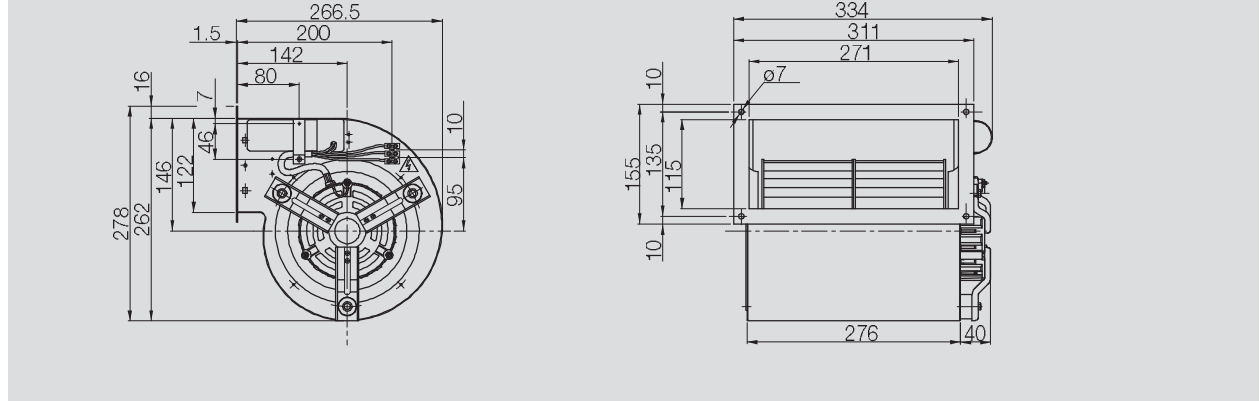
\* = No speed control available

[HI] High speed, [ME] Medium speed, [LO] Low speed

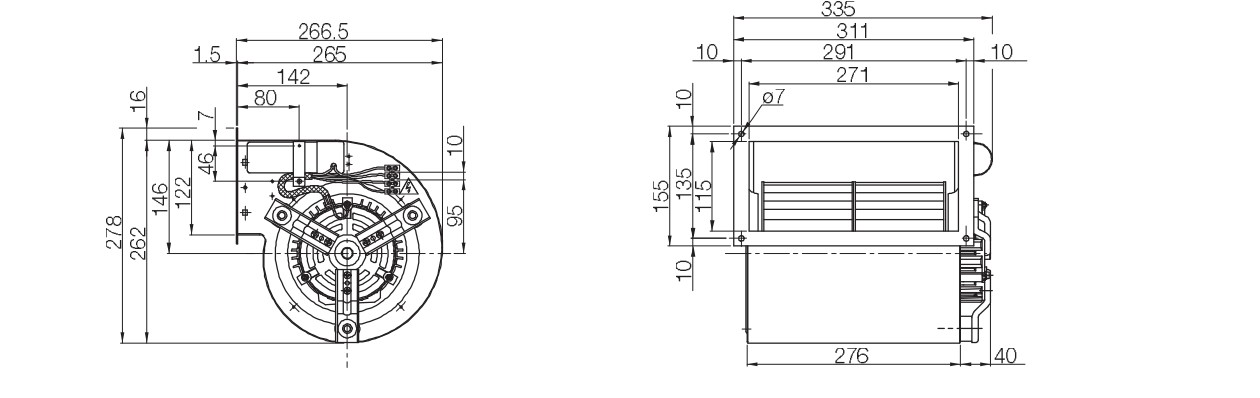
**Attention!** We suggest to do not use the fan in the grey marked area! The noise ratings given in the performance curves are sound power level  $L_{WA7}$ , see „Technical Description“.

## Dimensions in mm, subject to change.

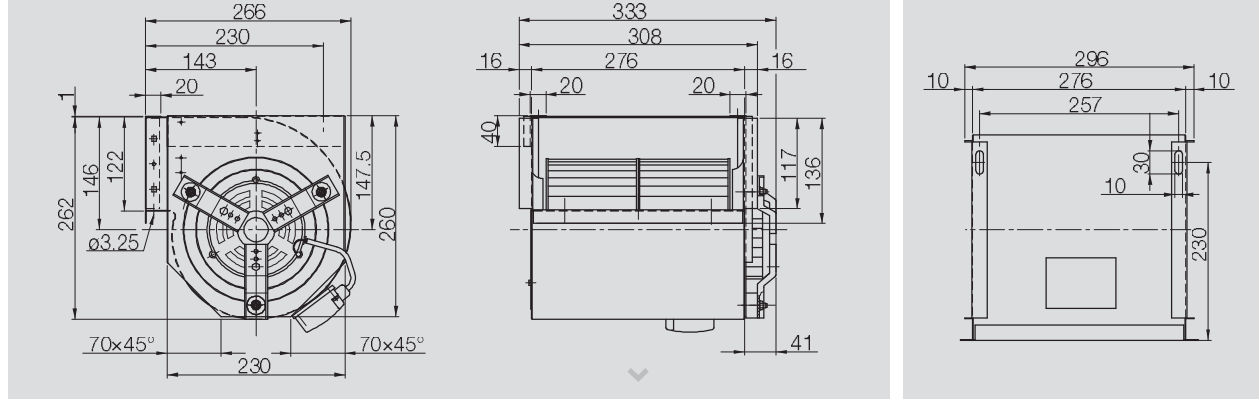
### DD 185/240 M953 1F 2P 1V +FL



### DD 185/240 M9Z3 1F 2P 1V +FL

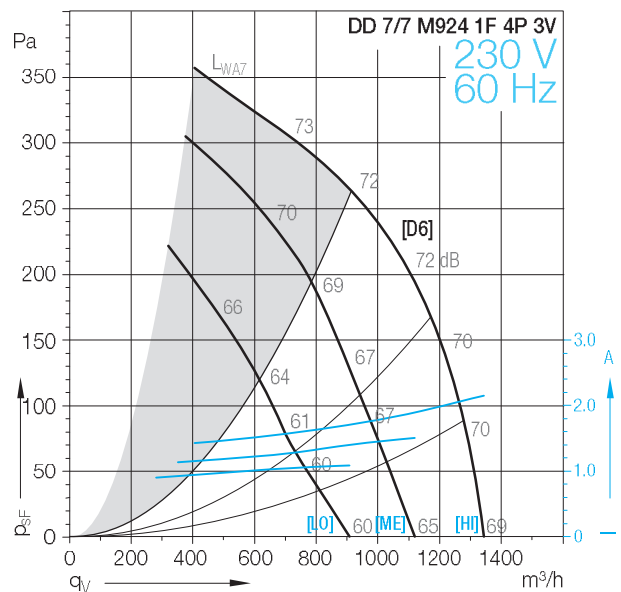
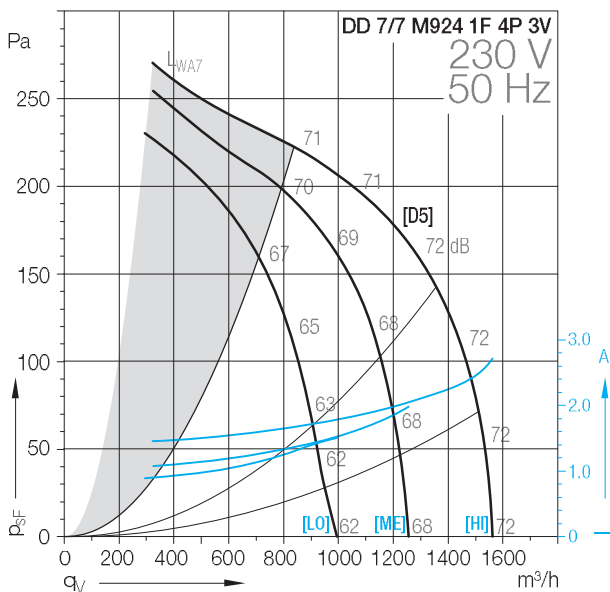
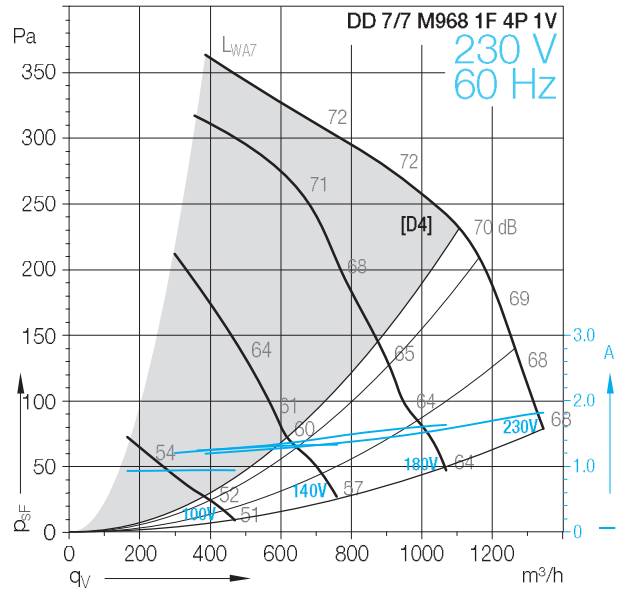
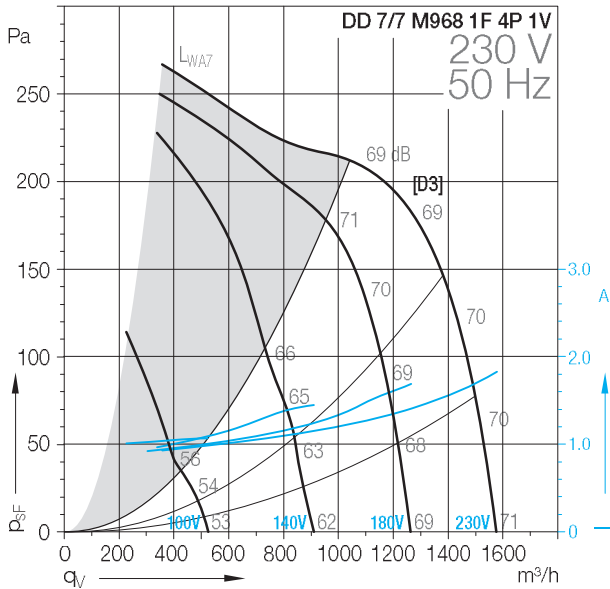
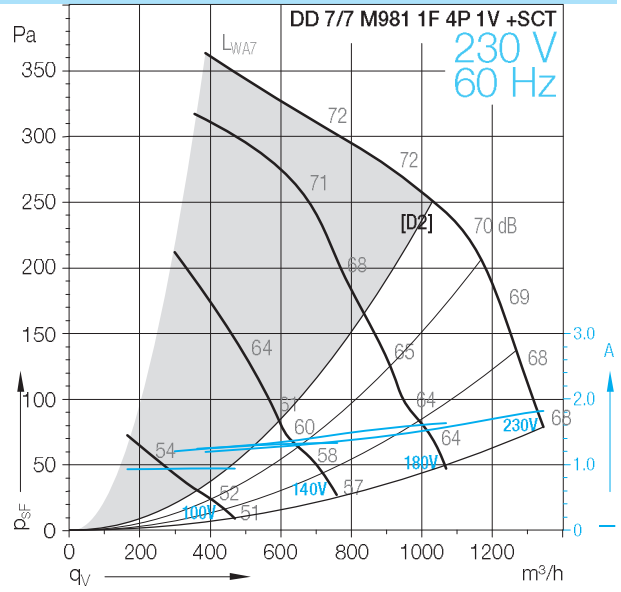
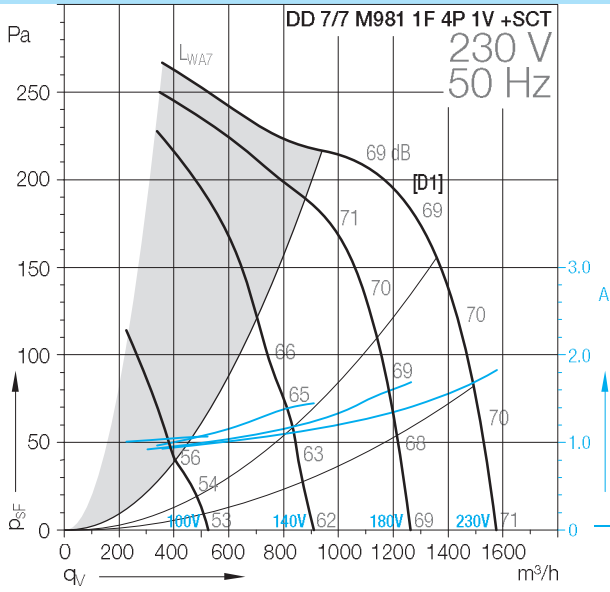


### DD 185/240 M947 3F 2P 1V +SCT



# DD-7/7

## Technical Data



# DD-7/7

## Technical Data

	Speed control	Curves	Nominal motor power	Poles	Phases	Connection	Mains frequency	Max. power consumption	Max. current consumption	Speed
DD 7/7			W	—			Hz	W	A	1/min
M981 1F 4P 1V +SCT	(2)	[D1/D2]	147	4	1~		50/60	415	1.7	1290
M968 1F 4P 1V	(2)	[D3/D4]	147	4	1~		50/60	422	1.7	1300
M924 1F 4P 3V	*	[D5/D6]	147	4	1~		50/60	456	2	1250

## Technical Data

	Operating Capacitor	Nominal capacitor voltage	Motor protection class	Motor thermal class	Thermal protection	Media Temperature max.	Fan weight	Density of media	Installation type (ISO 5801)	Article number
DD 7/7	µF	V				°C	kg	kg/m <sup>3</sup>		
M981 1F 4P 1V +SCT	6.3	450	IP32	F	INT	40	9	1.2	B	6109HE
M968 1F 4P 1V	6.3	450	IP20	F	INT	40	6	1.2	B	6106E7
M924 1F 4P 3V	5	450	IP20	B	INT	50	7	1.2	B	6M0678

(1) = Speed controllable via Transformer

(2) = Speed controllable via TRIAC or Transformer

(3) = Speed controllable via Inverter

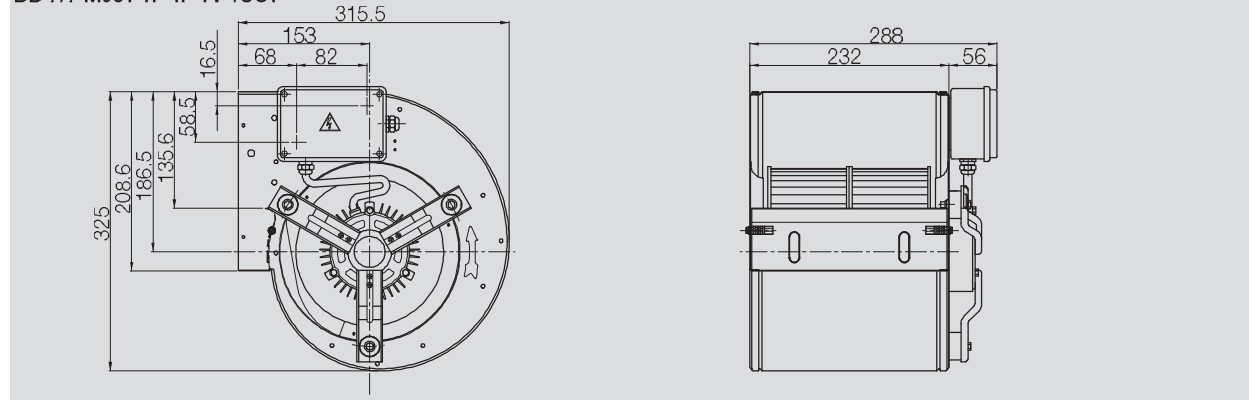
\* = No speed control available

[H] High speed, [ME] Medium speed, [LO] Low speed

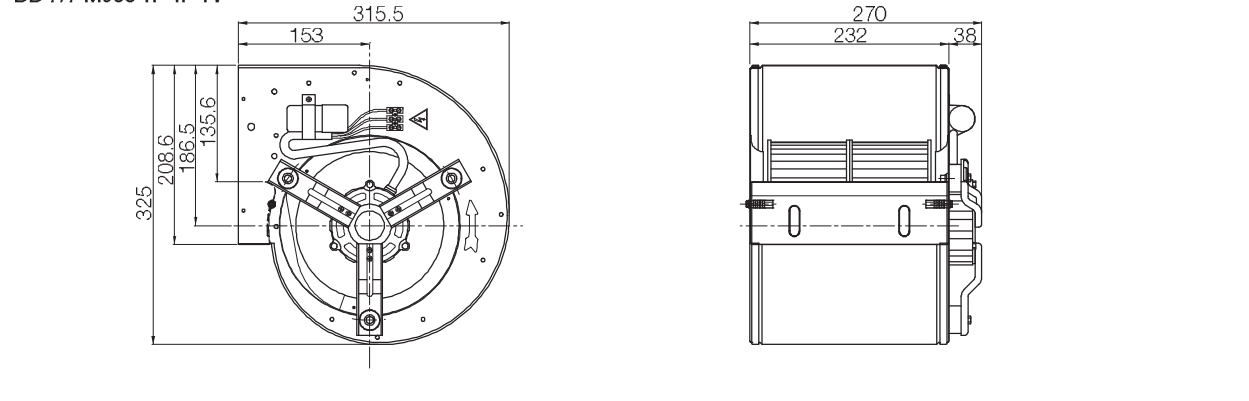
**Attention!** We suggest to do not use the fan in the grey marked area! The noise ratings given in the performance curves are sound power level  $L_{WA7}$ , see „Technical Description“.

## Dimensions in mm, subject to change.

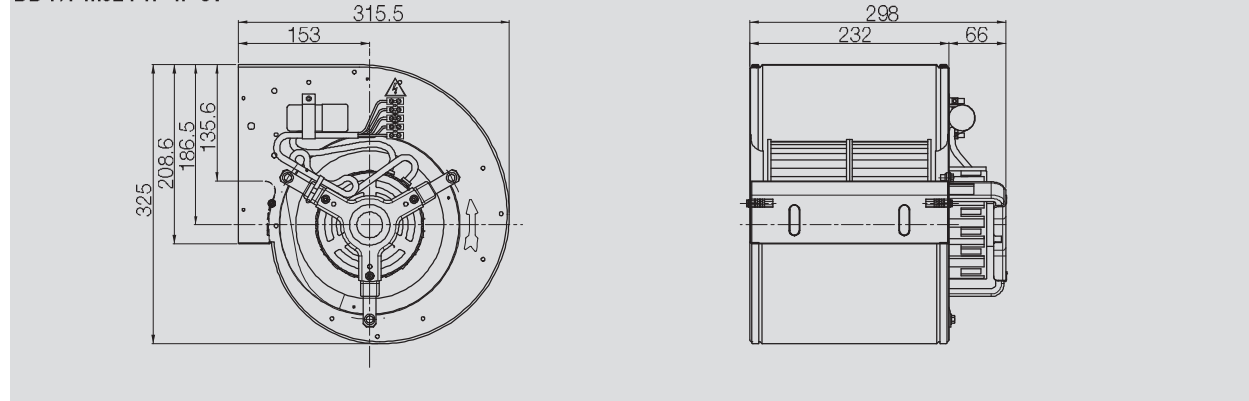
DD 7/7 M981 1F 4P 1V +SCT



DD 7/7 M968 1F 4P 1V

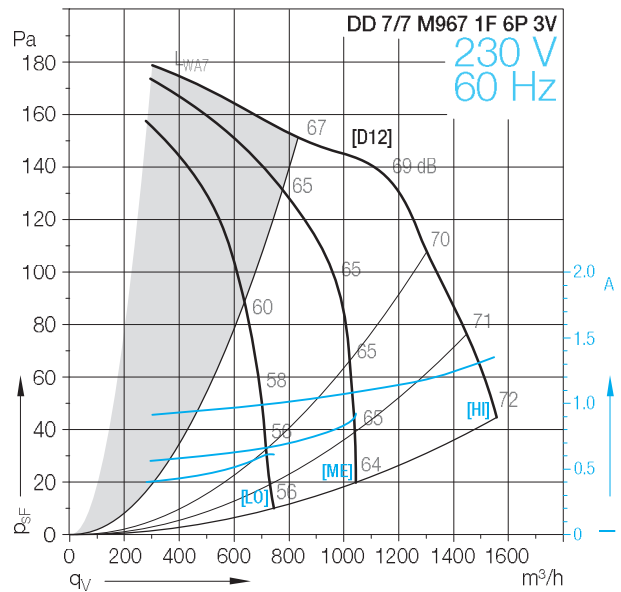
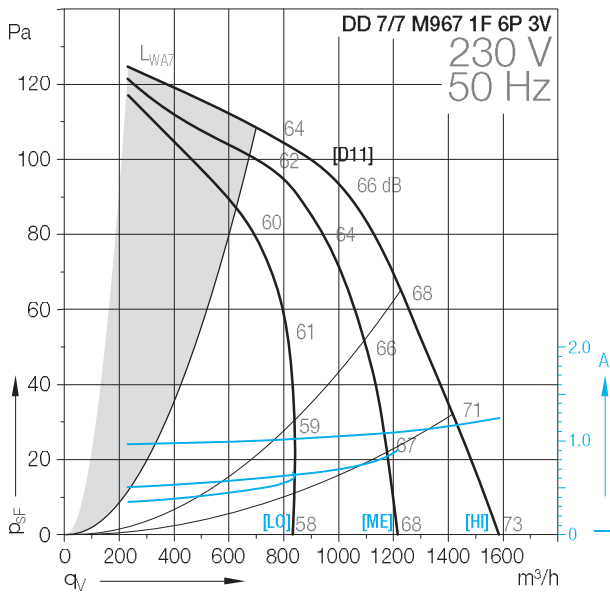
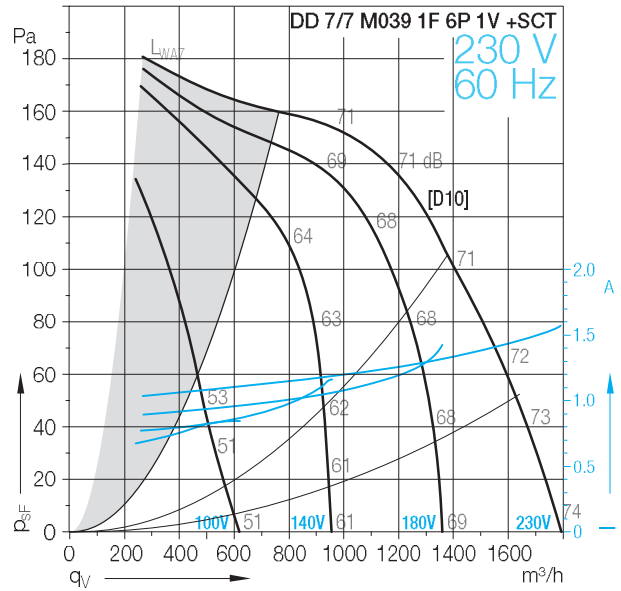
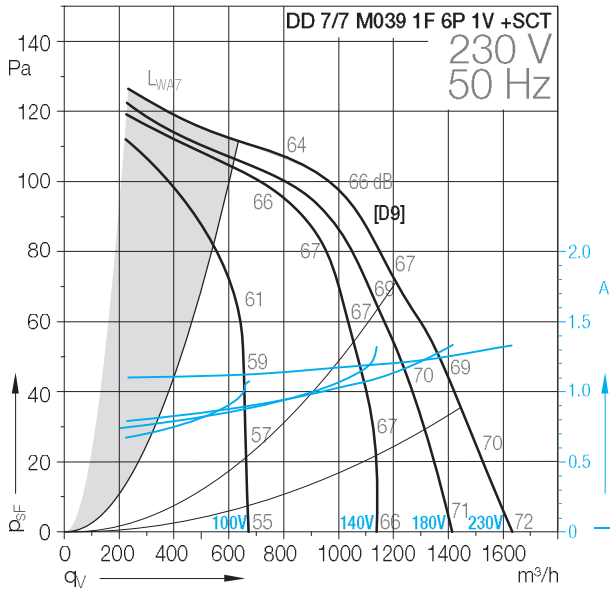
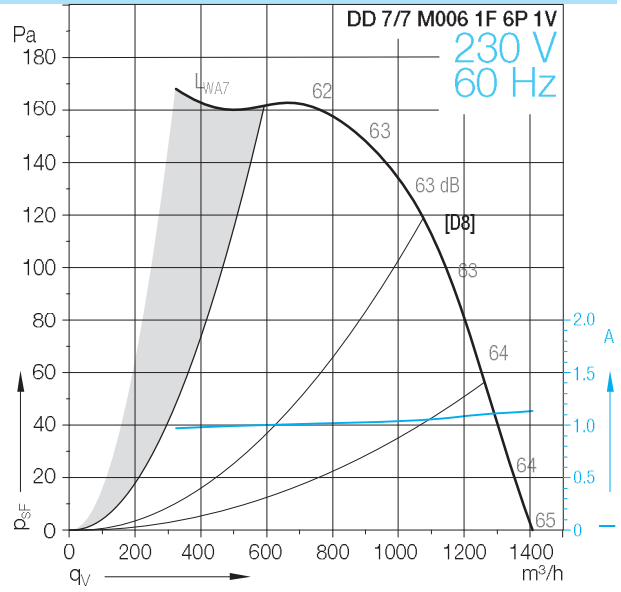
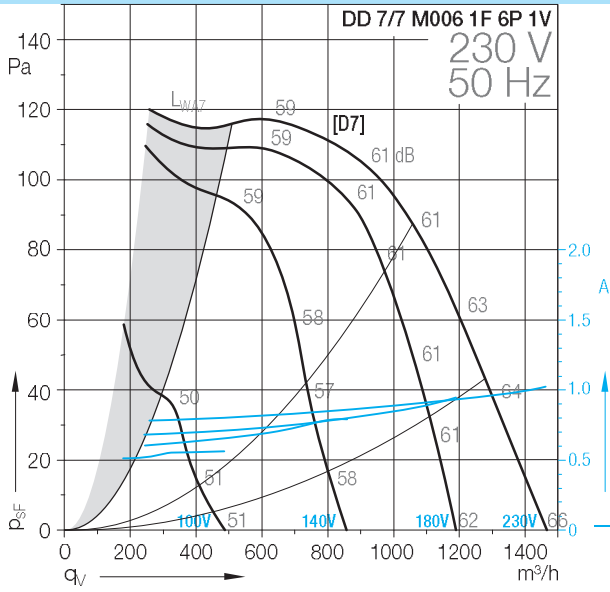


DD 7/7 M924 1F 4P 3V



# DD-7/7

## Technical Data





# DD-7/7

## Technical Data

	Speed control	Curves	Nominal motor power	Poles	Phases	Connection	Mains frequency	Max. power consumption	Max. current consumption	Speed
DD 7/7			W	—			Hz	W	A	1/min
M006 1F 6P 1V	(2)	[D7/D8]	62	6	1~		50/60	226	1	900
M039 1F 6P 1V +SCT	(2)	[D9/D10]	147	6	1~		50/60	282	1.3	860
M967 1F 6P 3V	*	[D11/D12]	147	6	1~		50/60	271	1.2	860

## Technical Data

	Operating Capacitor	Nominal capacitor voltage	Motor protection class	Motor thermal class	Thermal protection	Media Temperature max.	Fan weight	Density of media	Installation type (ISO 5801)	Article number
DD 7/7	µF	V				°C	kg	kg/m <sup>3</sup>		
M006 1F 6P 1V	4	450	IP20	B	INT	50	7	1.2	B	610303
M039 1F 6P 1V +SCT	5	500	IP44	B	INT	40	7	1.2	B	6109CG
M967 1F 6P 3V	5	500	IP32	B	INT	40	7	1.2	B	6106Z6

(1) = Speed controllable via Transformer

(2) = Speed controllable via TRIAC or Transformer

(3) = Speed controllable via Inverter

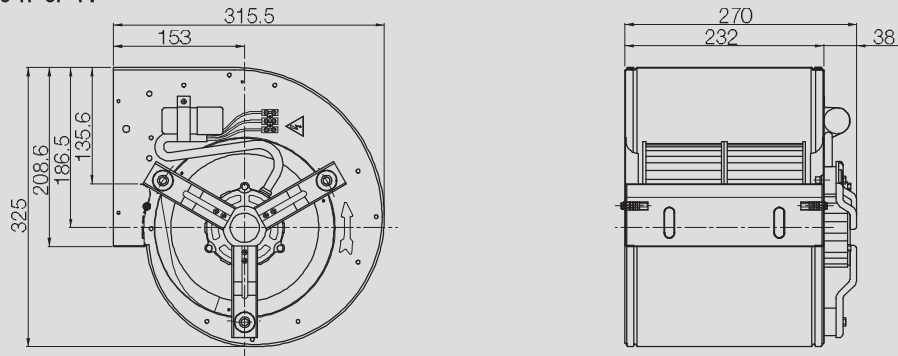
\* = No speed control available

[HI] High speed, [ME] Medium speed, [LO] Low speed

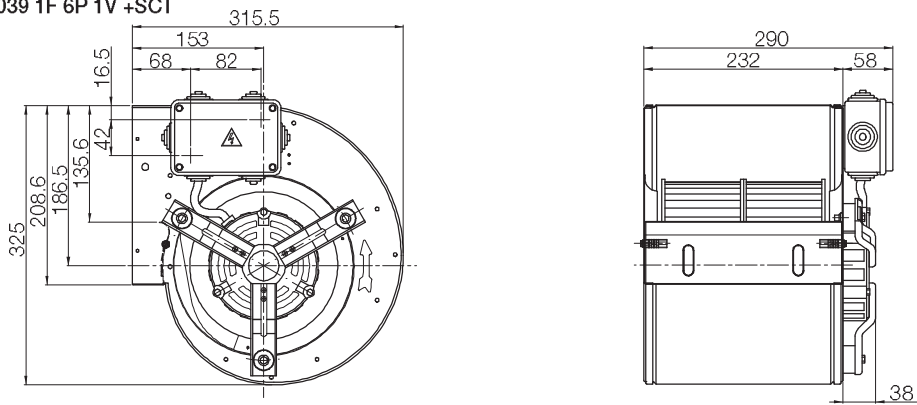
**Attention!** We suggest to do not use the fan in the grey marked area! The noise ratings given in the performance curves are sound power level  $L_{WA7}$ , see „Technical Description“.

## Dimensions in mm, subject to change.

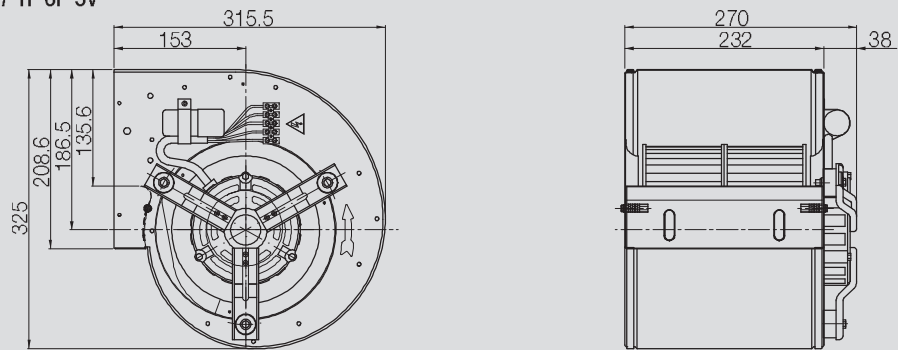
### DD 7/7 M006 1F 6P 1V



### DD 7/7 M039 1F 6P 1V +SCT

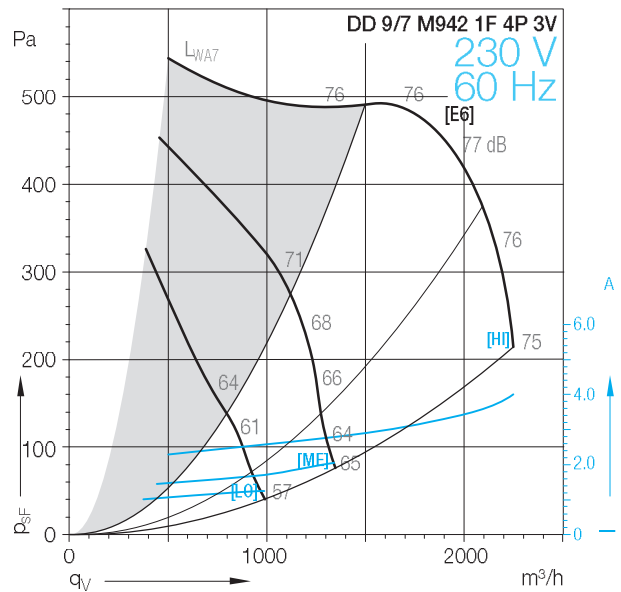
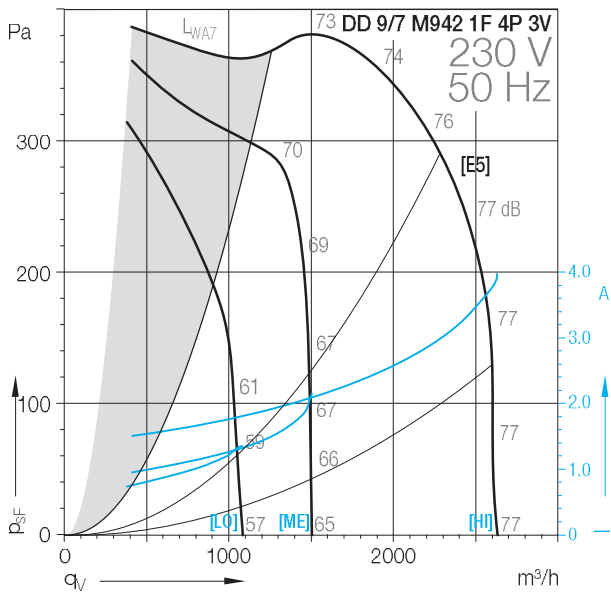
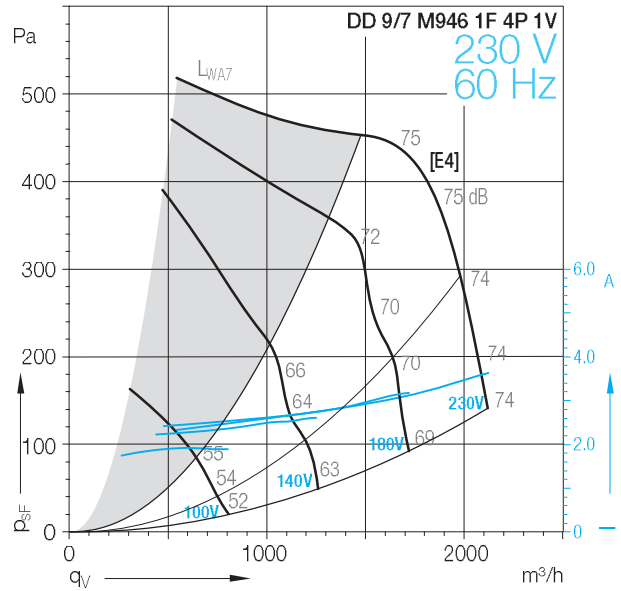
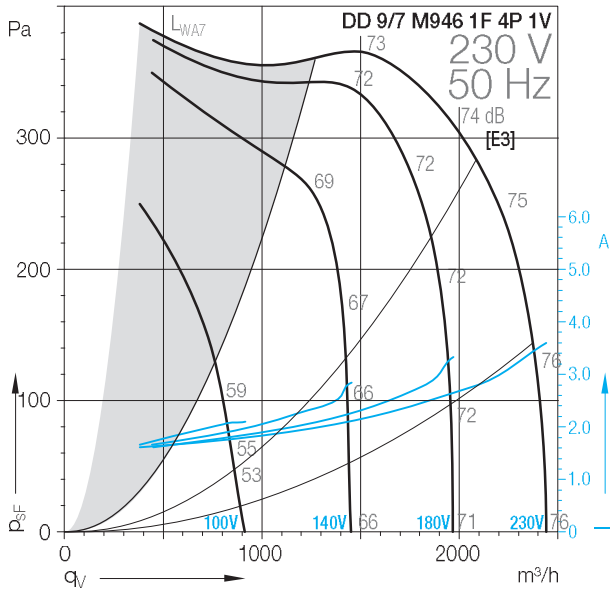
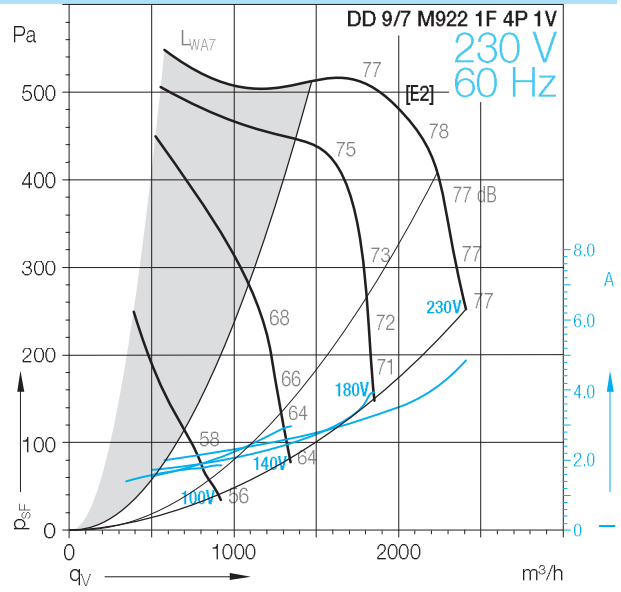
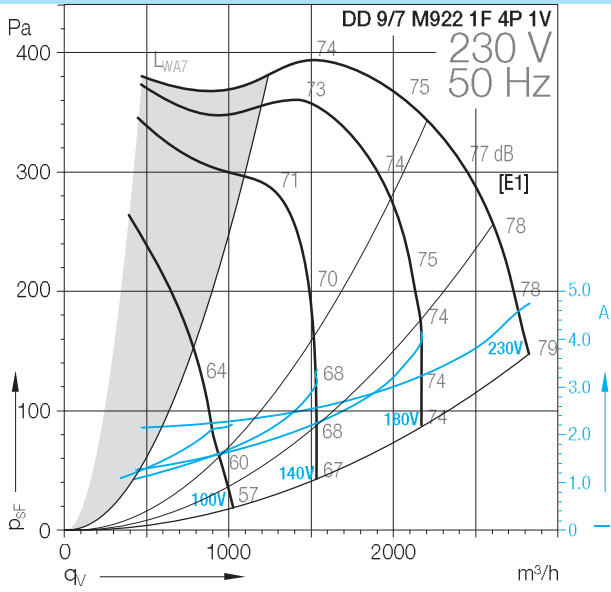


### DD 7/7 M967 1F 6P 3V



# DD-9/7

## Technical Data



# DD-9/7

## Technical Data

	Speed control	Curves	Nominal motor power <b>W</b>	Poles	Phases	Connection	Mains frequency <b>Hz</b>	Max. power consumption <b>W</b>	Max. current consumption <b>A</b>	Speed <b>1/min</b>
DD 9/7										
M922 1F 4P 1V	(2)	[E1/E2]	373	4	1~		50/60	1047	5	1380
M946 1F 4P 1V	(2)	[E3/E4]	300	4	1~		50/60	811	3.5	1300
M942 1F 4P 3V	*	[E5/E6]	420	4	1~		50/60	902	3.9	1200

## Technical Data

	Operating Capacitor $\mu\text{F}$	Nominal capacitor voltage <b>V</b>	Motor protection class	Motor thermal class	Thermal protection	Media Temperature max. $^{\circ}\text{C}$	Fan weight <b>kg</b>	Density of media <b>kg/m<sup>3</sup></b>	Installation type (ISO 5801)	Article number
DD 9/7										
M922 1F 4P 1V	10	450	IP20	B	INT	40	10	1.2	B	6M06E4
M946 1F 4P 1V	10	500	IP20	B	EXT	40	10	1.2	B	6M0671
M942 1F 4P 3V	12.5	450	IP20	B	EXT	40	10	1.2	B	6M0695

(1) = Speed controllable via Transformer

(2) = Speed controllable via TRIAC or Transformer

(3) = Speed controllable via Inverter

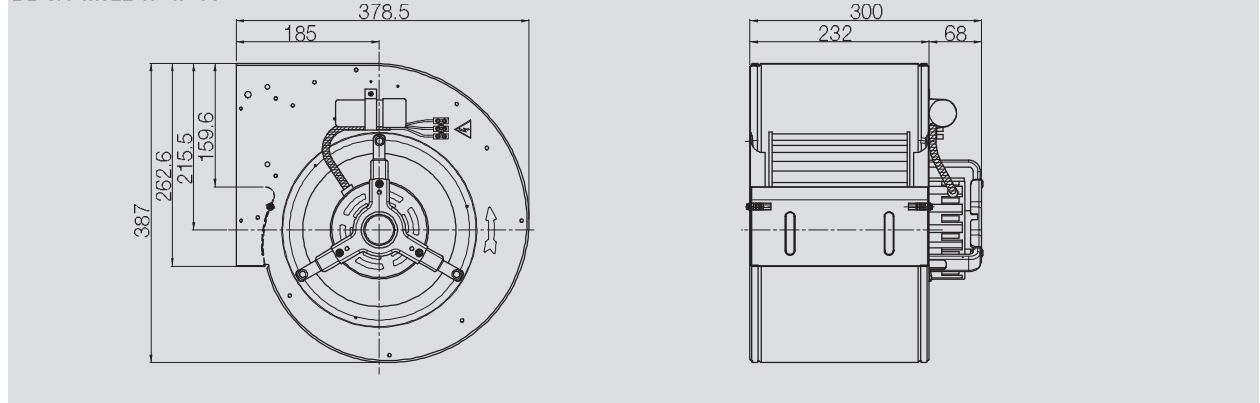
\* = No speed control available

[HI] High speed, [ME] Medium speed, [LO] Low speed

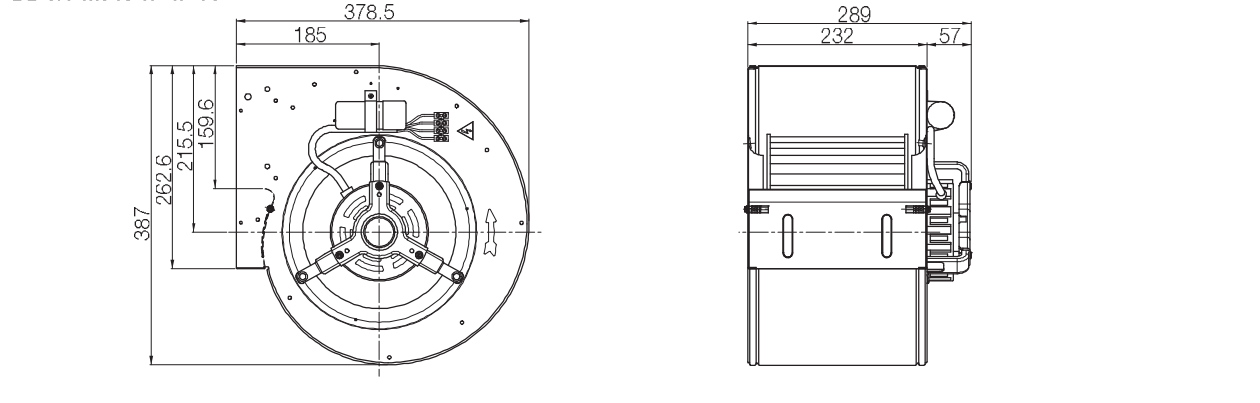
**Attention!** We suggest to do not use the fan in the grey marked area! The noise ratings given in the performance curves are sound power level  $L_{WA7}$ , see „Technical Description“.

## Dimensions in mm, subject to change.

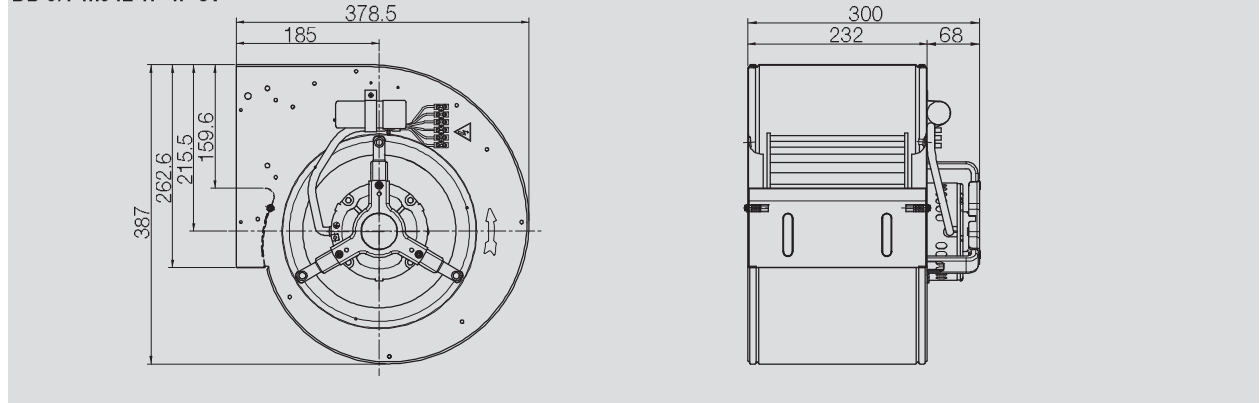
### DD 9/7 M922 1F 4P 1V



### DD 9/7 M946 1F 4P 1V

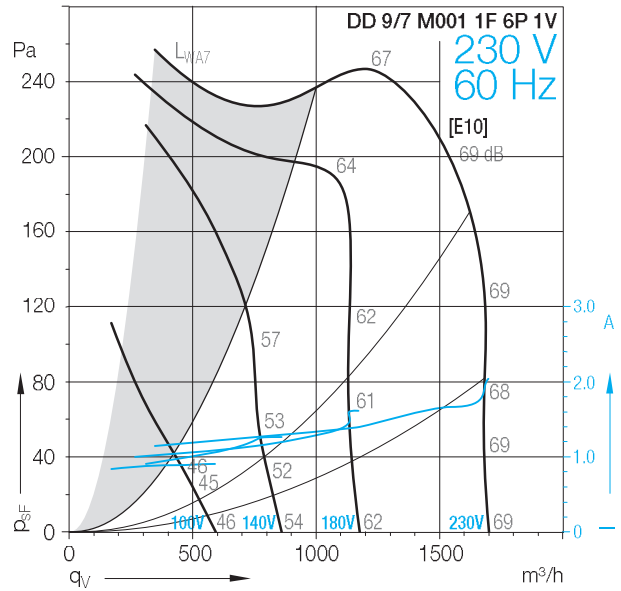
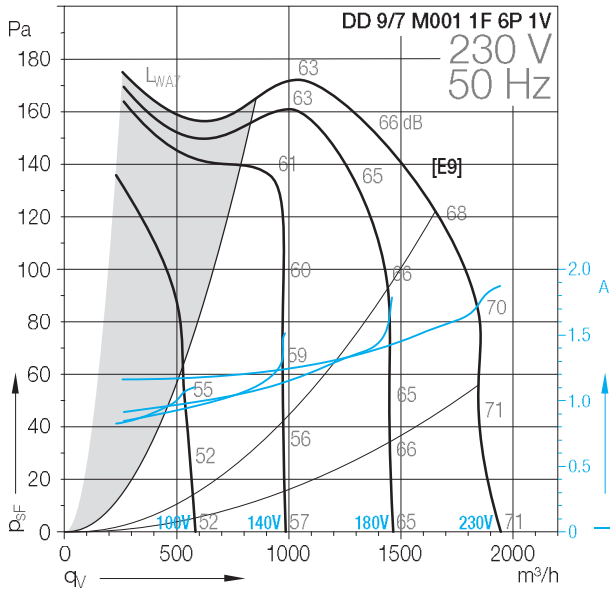
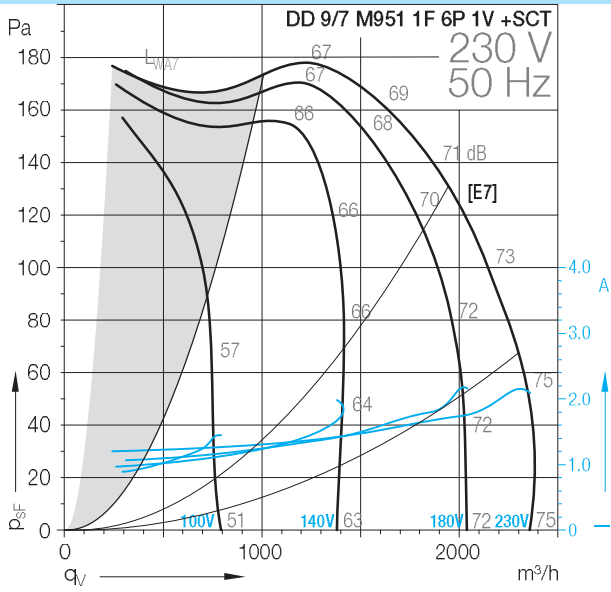


### DD 9/7 M942 1F 4P 3V



# DD-9/7

## Technical Data



# DD-9/7

## Technical Data

	Speed control	Curves	Nominal motor power <b>W</b>	Poles -	Phases	Connection	Mains frequency <b>Hz</b>	Max. power consumption <b>W</b>	Max. current consumption <b>A</b>	Speed <b>1/min</b>
DD 9/7										
M951 1F 6P 1V +SCT	(1)	[E7]	245	6	1~		50	454	2.1	850
M001 1F 6P 1V	(1)	[E9/E10]	147	6	1~		50/60	406	1.8	825

## Technical Data

	Operating Capacitor $\mu\text{F}$	Nominal capacitor voltage <b>V</b>	Motor protection class	Motor thermal class	Thermal protection	Media Temperature max. $^{\circ}\text{C}$	Fan weight <b>kg</b>	Density of media $\text{kg/m}^3$	Installation type (ISO 5801) B	Article number
DD 9/7										
M951 1F 6P 1V +SCT	8	500	IP32	F	INT	40	12	1.2	B	6M09HF
M001 1F 6P 1V	5	500	IP20	F	EXT	40	10	1.2	B	6M0306

(1) = Speed controllable via Transformer

(2) = Speed controllable via TRIAC or Transformer

(3) = Speed controllable via Inverter

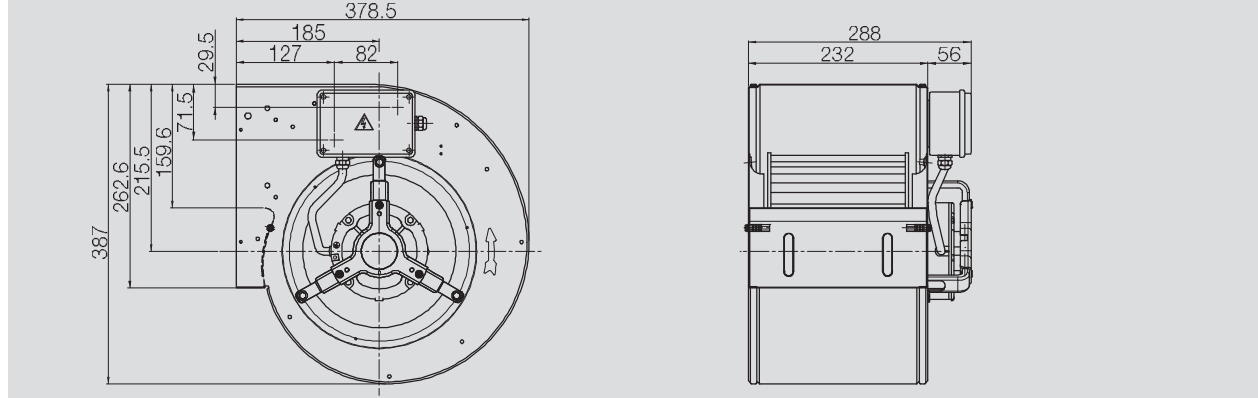
\* = No speed control available

[HI] High speed, [ME] Medium speed, [LO] Low speed

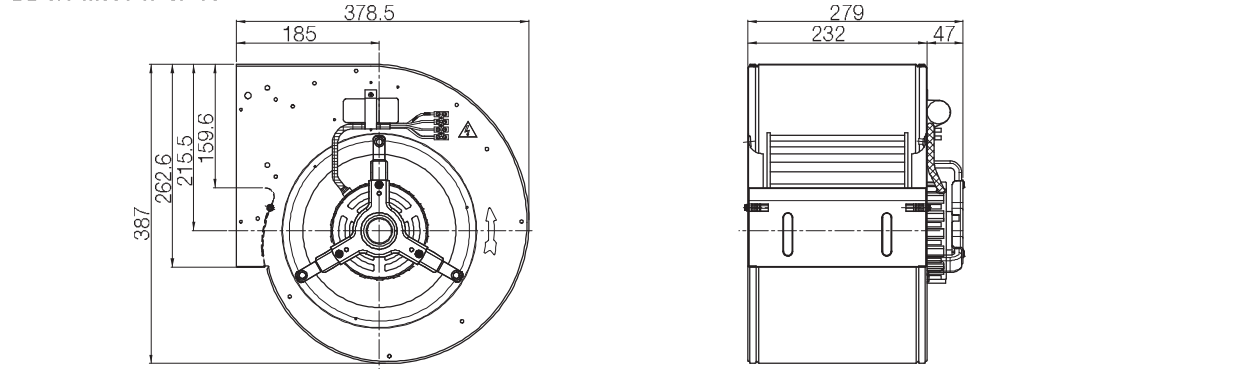
**Attention!** We suggest to do not use the fan in the grey marked area! The noise ratings given in the performance curves are sound power level  $L_{WA7}$ , see „Technical Description“.

## Dimensions in mm, subject to change.

### DD 9/7 M951 1F 6P 1V +SCT

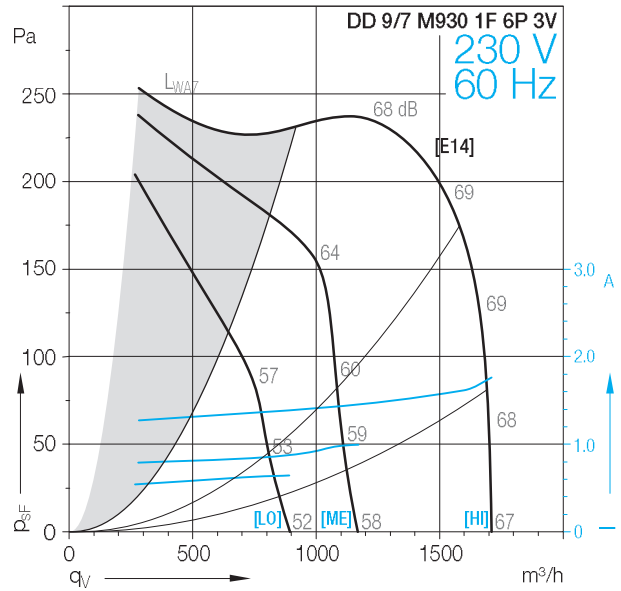
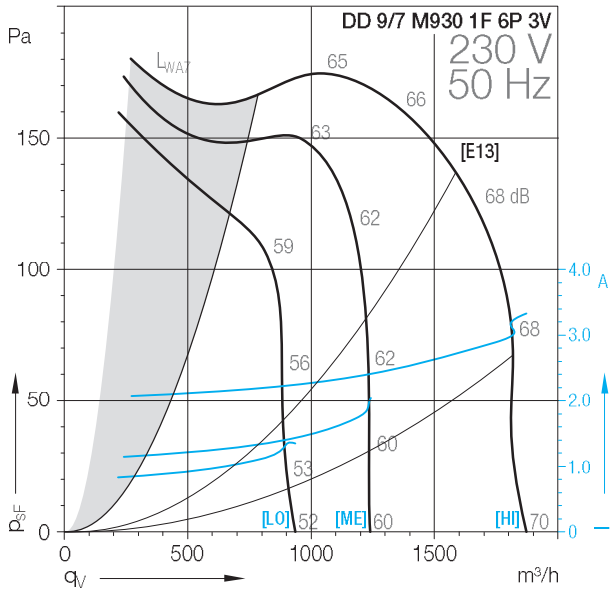
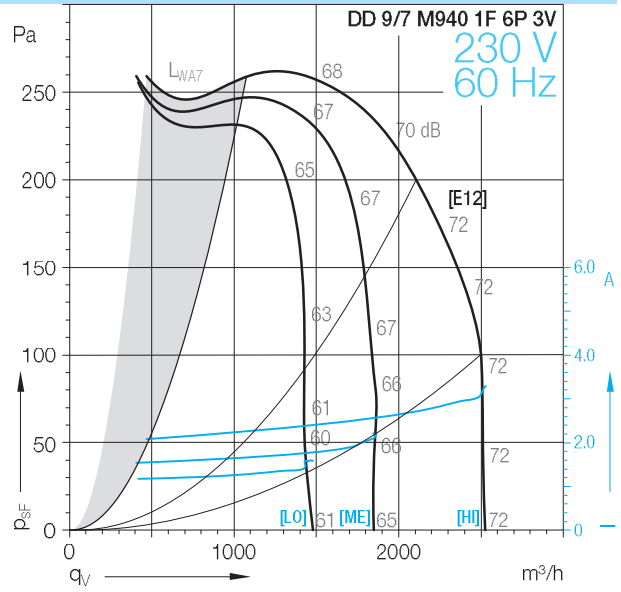
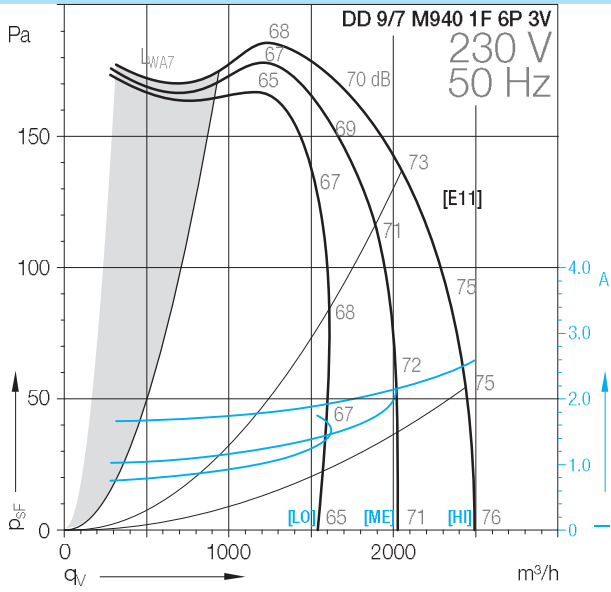


### DD 9/7 M001 1F 6P 1V



# DD-9/7

## Technical Data



# DD-9/7

Technical Data										
	Speed control	Curves	Nominal motor power	Poles	Phases	Connection	Mains frequency	Max. power consumption	Max. current consumption	Speed
DD 9/7			<b>W</b>	–			<b>Hz</b>	<b>W</b>	<b>A</b>	<b>1/min</b>
M940 1F 6P 3V	*	[E11/E12]	245	6	1~		50/60	563	2.6	880
M930 1F 6P 3V	*	[E13/E14]	147	6	1~		50/60	386	1.7	900

Technical Data										
	Operating Capacitor	Nominal capacitor voltage	Motor protection class	Motor thermal class	Thermal protection	Media Temperature max.	Fan weight	Density of media	Installation type (ISO 5801)	Article number
DD 9/7	$\mu\text{F}$	<b>V</b>				$^{\circ}\text{C}$	<b>kg</b>	<b>kg/m<sup>3</sup></b>		
M940 1F 6P 3V	8	500	IP20	F	INT	40	10	1.2	B	6M0667
M930 1F 6P 3V	6.3	500	IP20	B	INT	40	11	1.2	B	6M06A3

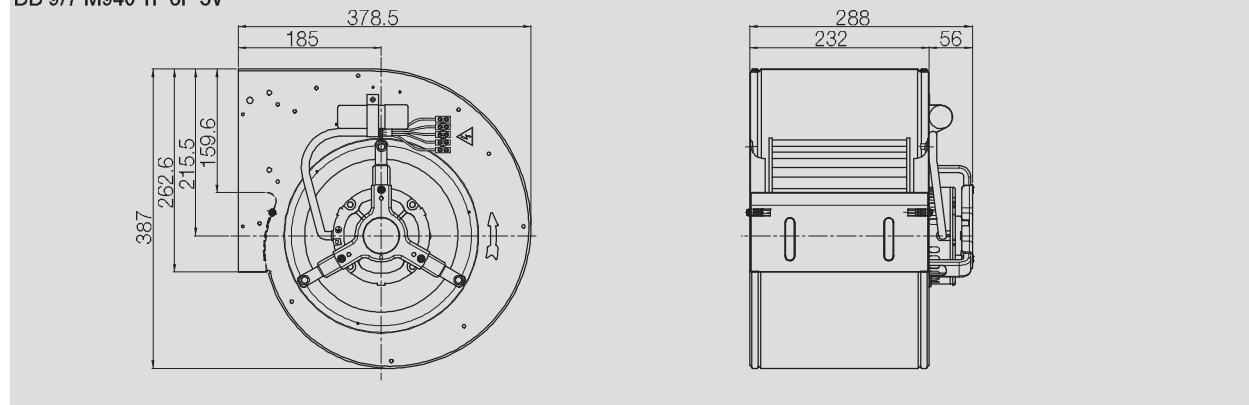
- (1) = Speed controllable via Transformer
- (2) = Speed controllable via TRIAC or Transformer
- (3) = Speed controllable via Inverter
- \* = No speed control available

[HI] High speed, [ME] Medium speed, [LO] Low speed

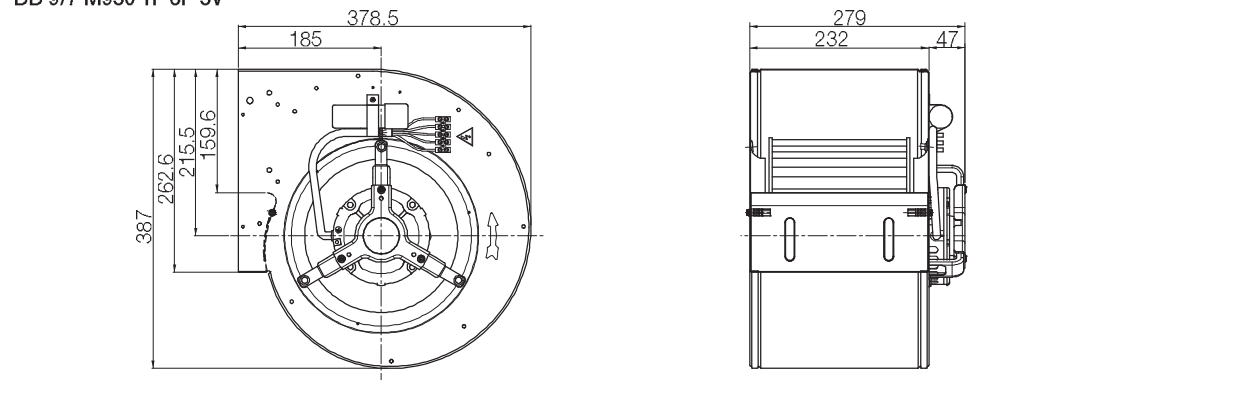
**Attention!** We suggest to do not use the fan in the grey marked area! The noise ratings given in the performance curves are sound power level  $L_{WA7}$ , see „Technical Description“.

### Dimensions in mm, subject to change.

DD 9/7 M940 1F 6P 3V

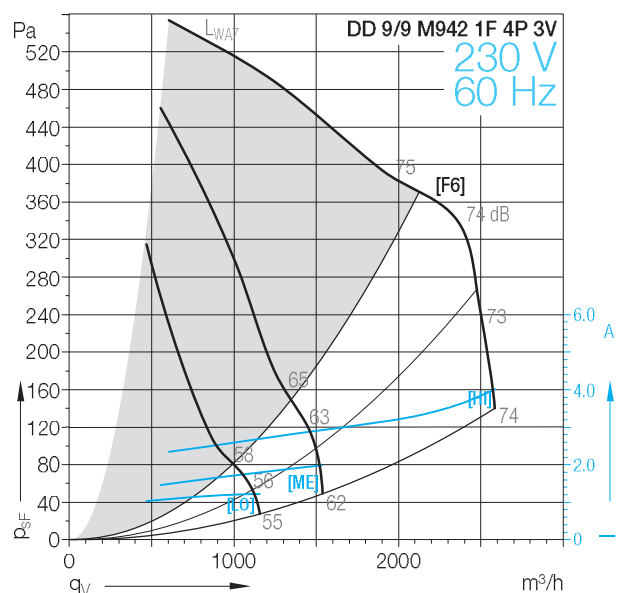
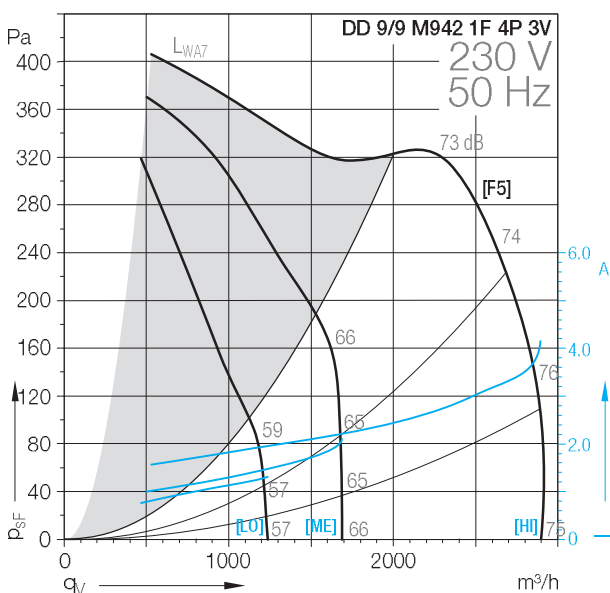
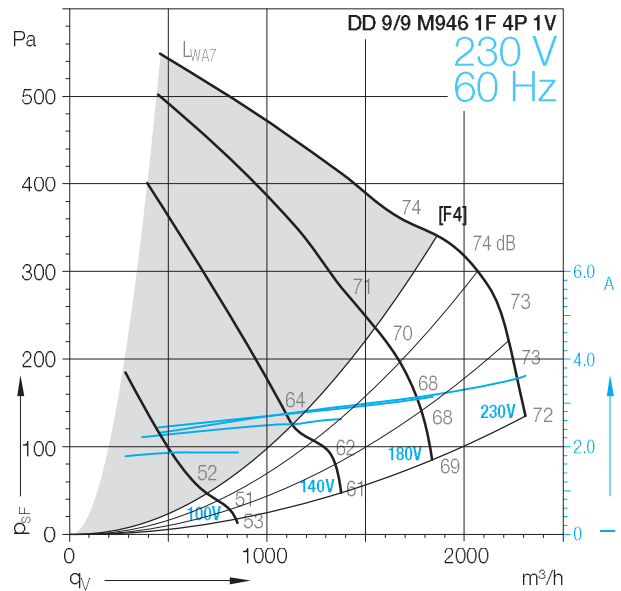
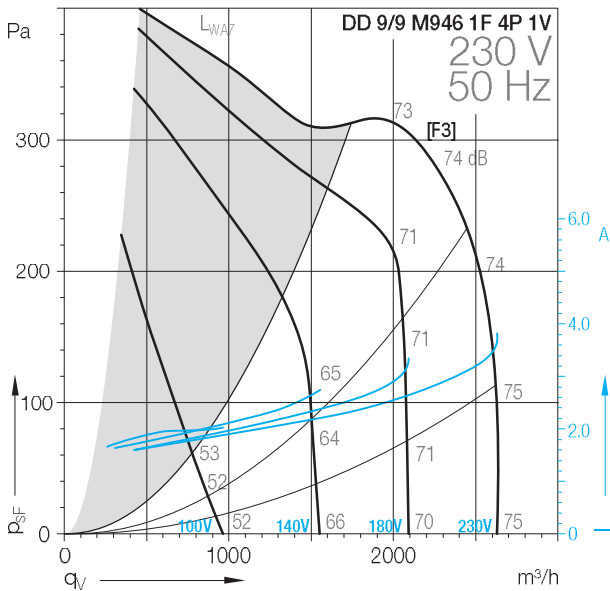
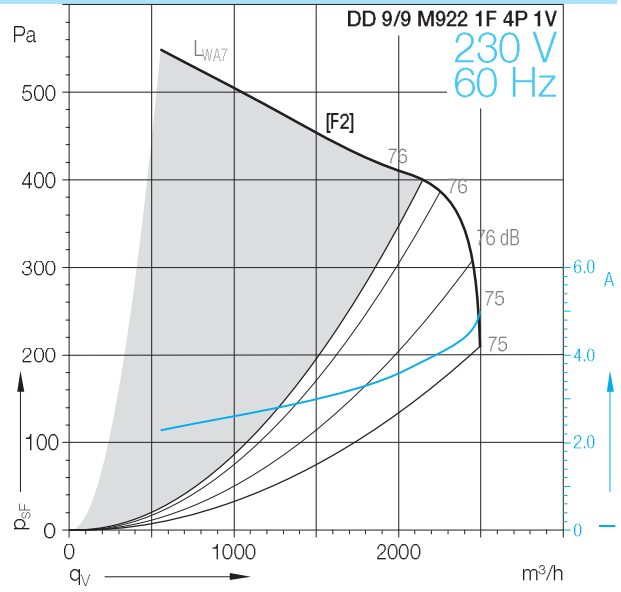
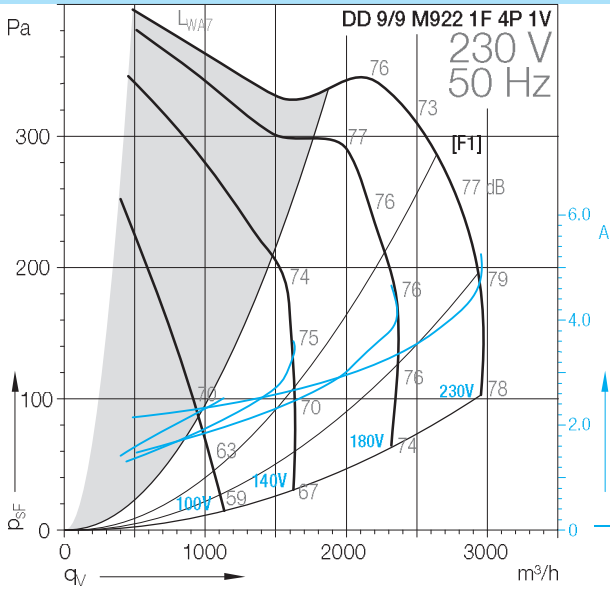


DD 9/7 M930 1F 6P 3V



# DD-9/9

## Technical Data





# DD-9/9

## Technical Data

	Speed control	Curves	Nominal motor power <b>W</b>	Poles -	Phases	Connection	Mains frequency <b>Hz</b>	Max. power consumption <b>W</b>	Max. current consumption <b>A</b>	Speed <b>1/min</b>
DD 9/9										
M922 1F 4P 1V	(2)	[F1/F2]	373	4	1~		50/60	1165	5.1	1380
M946 1F 4P 1V	(2)	[F3/F4]	300	4	1~		50/60	877	3.5	1300
M942 1F 4P 3V	*	[F5/F6]	420	4	1~		50/60	962	3.8	1200

## Technical Data

	Operating Capacitor <b>µF</b>	Nominal capacitor voltage <b>V</b>	Motor protection class	Motor thermal class	Thermal protection	Media Temperature max. <b>°C</b>	Fan weight <b>kg</b>	Density of media <b>kg/m<sup>3</sup></b>	Installation type (ISO 5801)	Article number
DD 9/9										
M922 1F 4P 1V	10	450	IP20	F	INT	40	13	1.2	B	6M0642
M946 1F 4P 1V	10	500	IP20	B	EXT	40	12	1.2	B	6M0661
M942 1F 4P 3V	12.5	450	IP20	B	EXT	40	14	1.2	B	6M0669

(1) = Speed controllable via Transformer

(2) = Speed controllable via TRIAC or Transformer

(3) = Speed controllable via Inverter

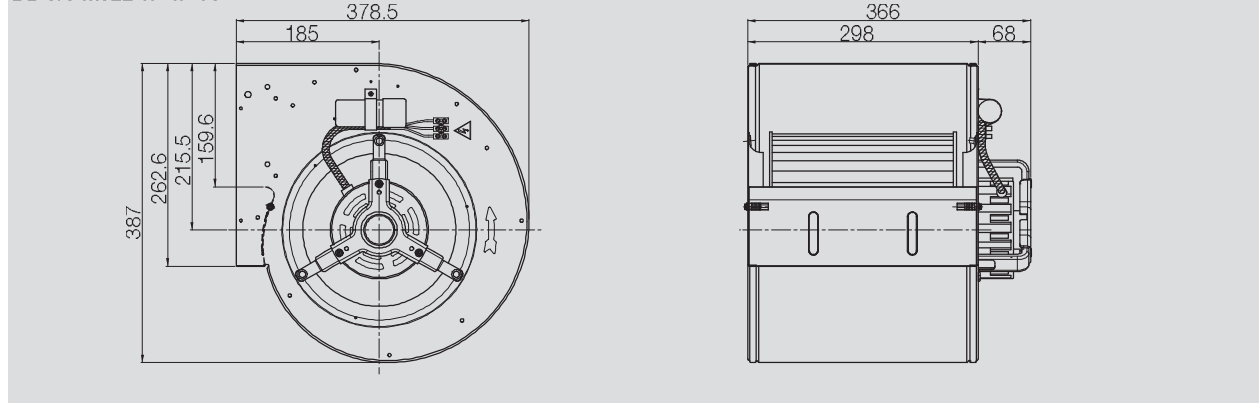
\* = No speed control available

[HI] High speed, [ME] Medium speed, [LO] Low speed

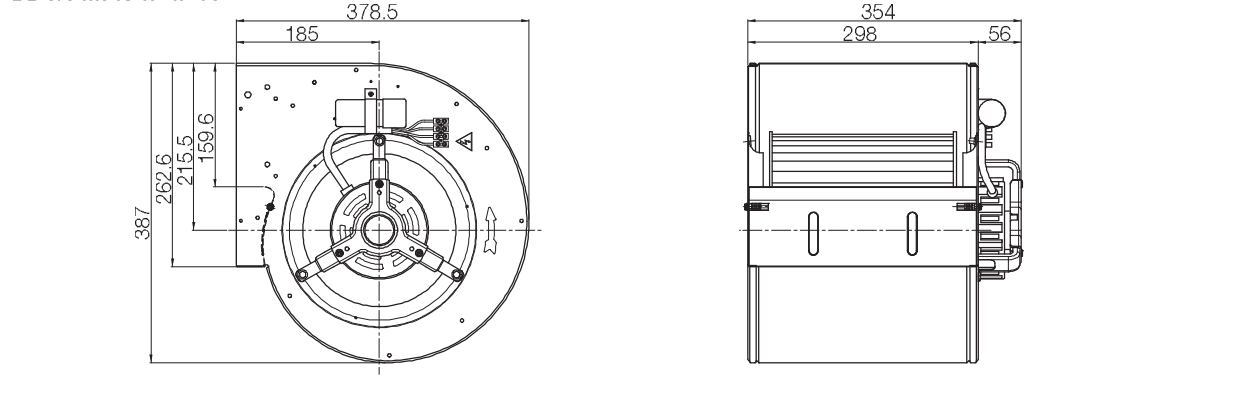
**Attention!** We suggest to do not use the fan in the grey marked area! The noise ratings given in the performance curves are sound power level  $L_{WA7}$ , see „Technical Description“.

## Dimensions in mm, subject to change.

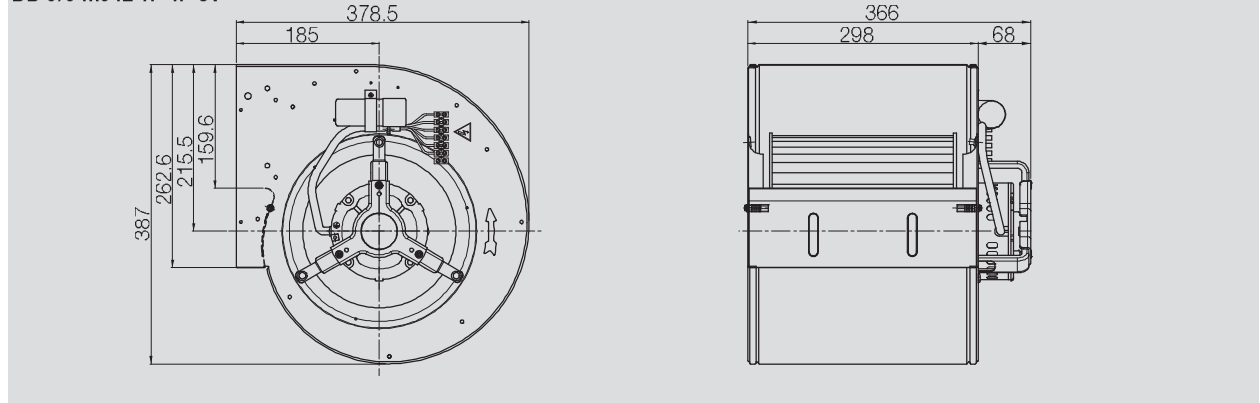
DD 9/9 M922 1F 4P 1V



DD 9/9 M946 1F 4P 1V

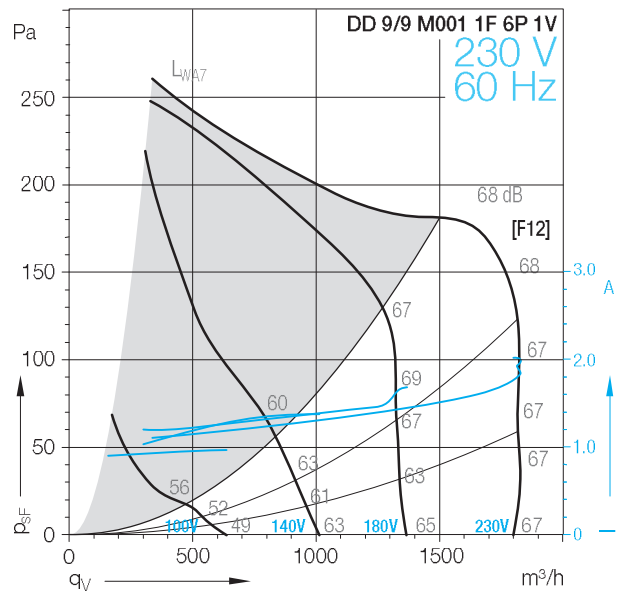
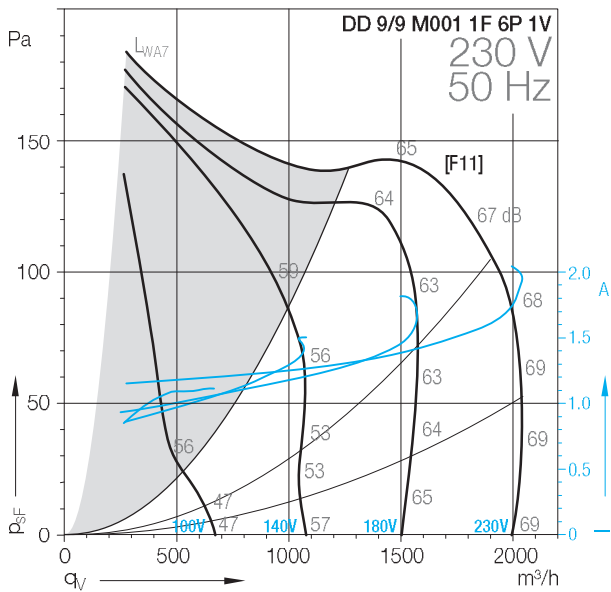
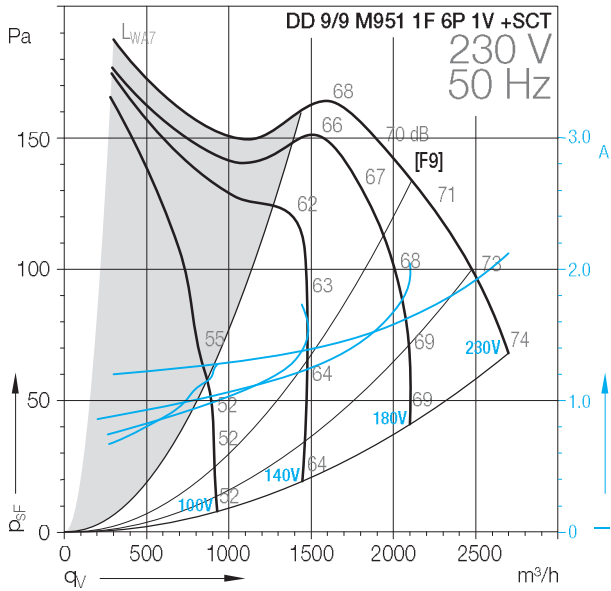
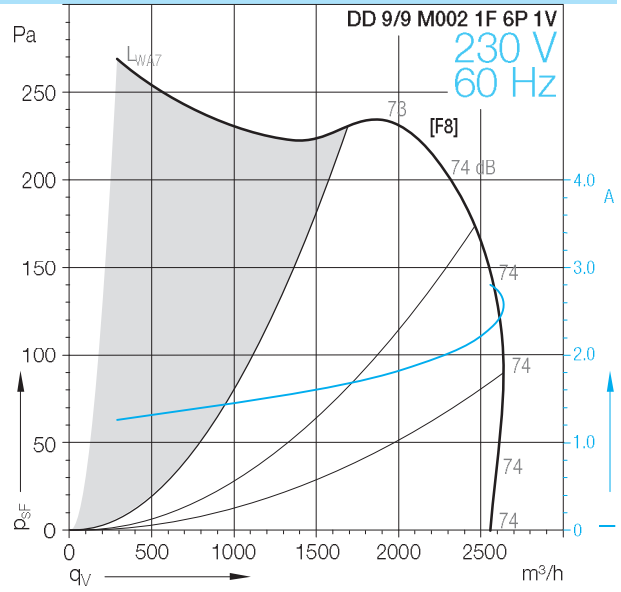
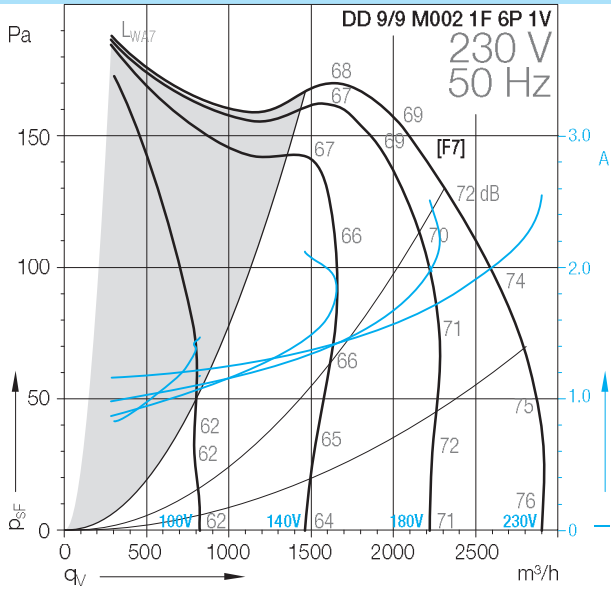


DD 9/9 M942 1F 4P 3V



# DD-9/9

## Technical Data



# DD-9/9

## Technical Data

	Speed control	Curves	Nominal motor power <b>W</b>	Poles	Phases	Connection	Mains frequency <b>Hz</b>	Max. power consumption <b>W</b>	Max. current consumption <b>A</b>	Speed <b>1/min</b>
DD 9/9				–						
M002 1F 6P 1V	(1)	[F7/F8]	245	6	1~		50/60	549	2.6	850
M951 1F 6P 1V +SCT	(1)	[F9]	245	6	1~		50	483	2.1	850
M001 1F 6P 1V	(1)	[F11/F12]	147	6	1~		50/60	438	2	825

## Technical Data

	Operating Capacitor $\mu\text{F}$	Nominal capacitor voltage <b>V</b>	Motor protection class	Motor thermal class	Thermal protection	Media Temperature max. $^{\circ}\text{C}$	Fan weight <b>kg</b>	Density of media <b>kg/m<sup>3</sup></b>	Installation type (ISO 5801)	Article number
DD 9/9										
M002 1F 6P 1V	8	500	IP20	F	INT	70	13	1.2	B	6M0698
M951 1F 6P 1V +SCT	8	450	IP32	B	INT	40	11	1.2	B	6M06G0
M001 1F 6P 1V	5	500	IP20	F	EXT	40	11	1.2	B	6M0308

(1) = Speed controllable via Transformer

(2) = Speed controllable via TRIAC or Transformer

(3) = Speed controllable via Inverter

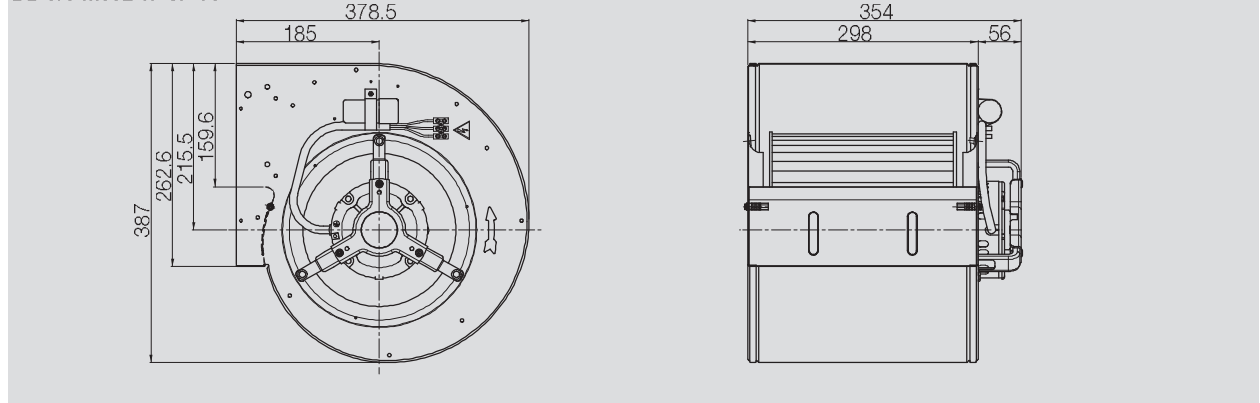
\* = No speed control available

[HI] High speed, [ME] Medium speed, [LO] Low speed

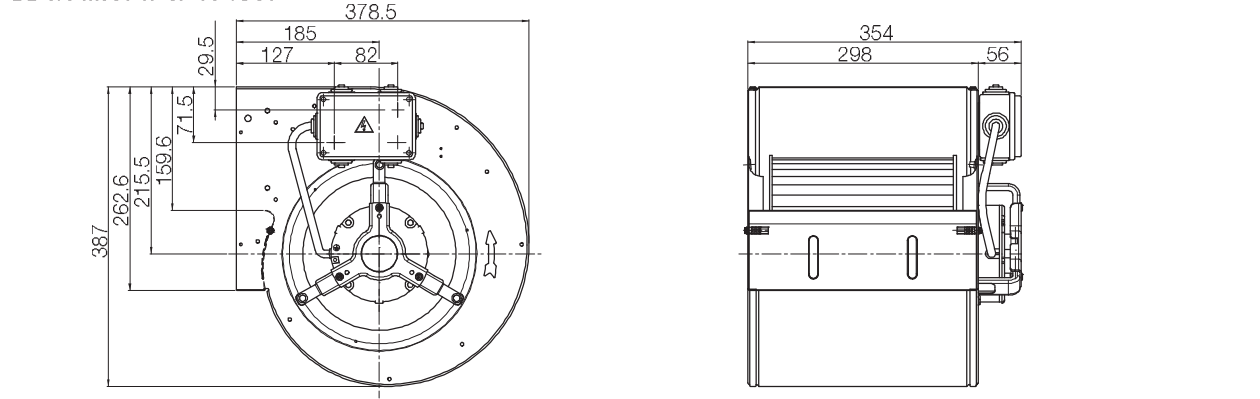
**Attention!** We suggest to do not use the fan in the grey marked area! The noise ratings given in the performance curves are sound power level  $L_{WA7}$ , see „Technical Description“.

## Dimensions in mm, subject to change.

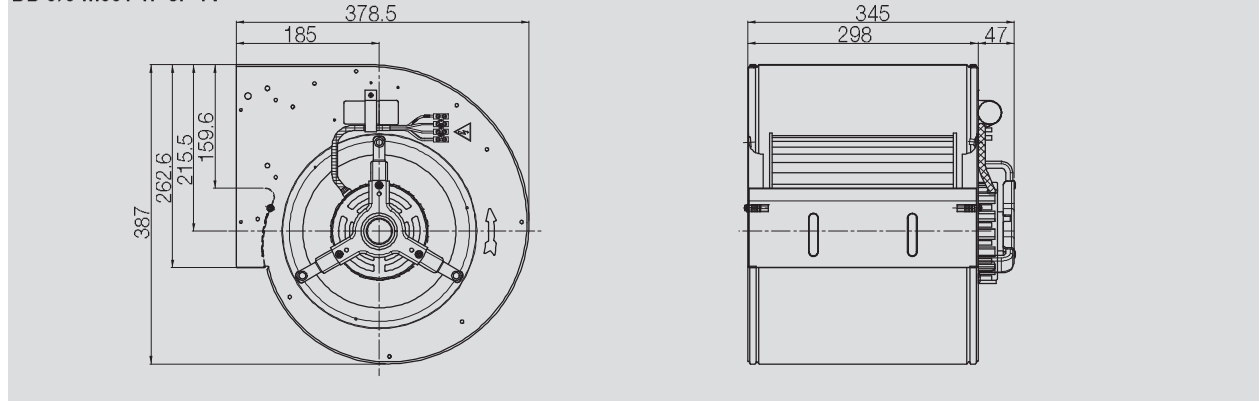
### DD 9/9 M002 1F 6P 1V



### DD 9/9 M951 1F 6P 1V +SCT

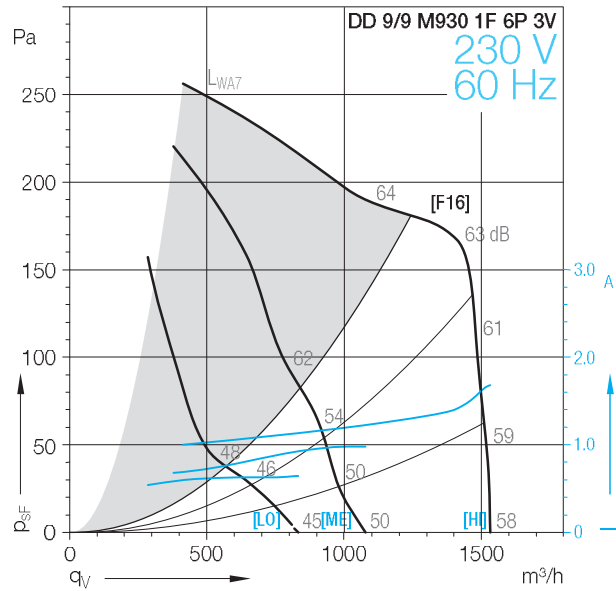
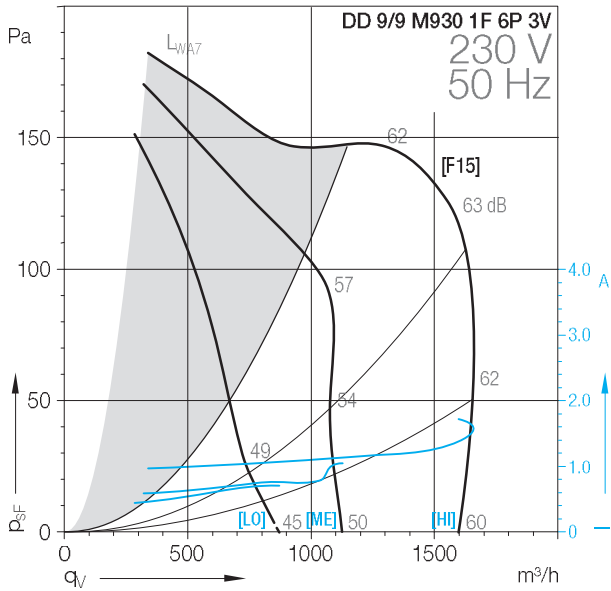
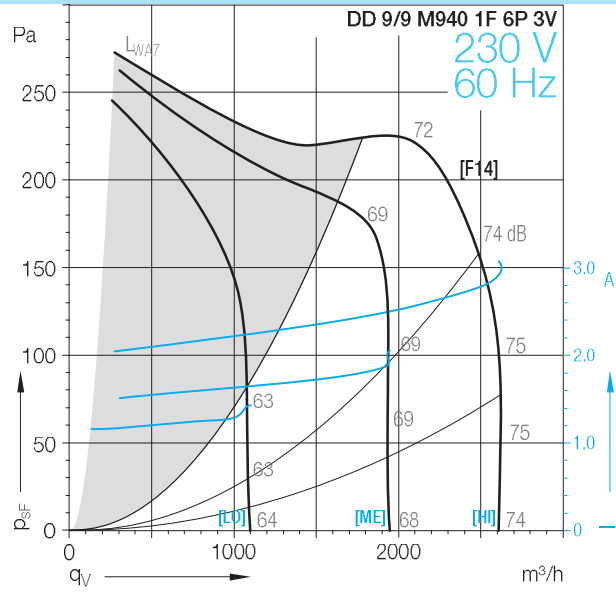
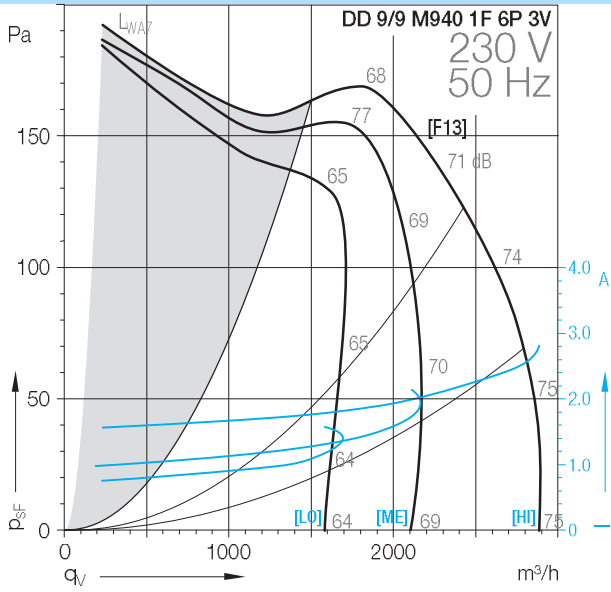


### DD 9/9 M001 1F 6P 1V



# DD-9/9

## Technical Data



# DD-9/9

## Technical Data

	Speed control	Curves	Nominal motor power <b>W</b>	Poles -	Phases	Connection	Mains frequency <b>Hz</b>	Max. power consumption <b>W</b>	Max. current consumption <b>A</b>	Speed <b>1/min</b>
DD 9/9										
M940 1F 6P 3V	*	[F13/F14]	245	6	1~		50/60	605	2.5	880
M930 1F 6P 3V	*	[F15/F16]	147	6	1~		50/60	385	1.7	900

## Technical Data

	Operating Capacitor <b>µF</b>	Nominal capacitor voltage <b>V</b>	Motor protection class	Motor thermal class	Thermal protection	Media Temperature max. <b>°C</b>	Fan weight <b>kg</b>	Density of media <b>kg/m<sup>3</sup></b>	Installation type (ISO 5801) <b>B</b>	Article number
DD 9/9										
M940 1F 6P 3V	8	500	IP20	F	INT	50	13	1.2	B	6M0662
M930 1F 6P 3V	5	450	IP20	B	INT	40	11	1.2	B	6M0664

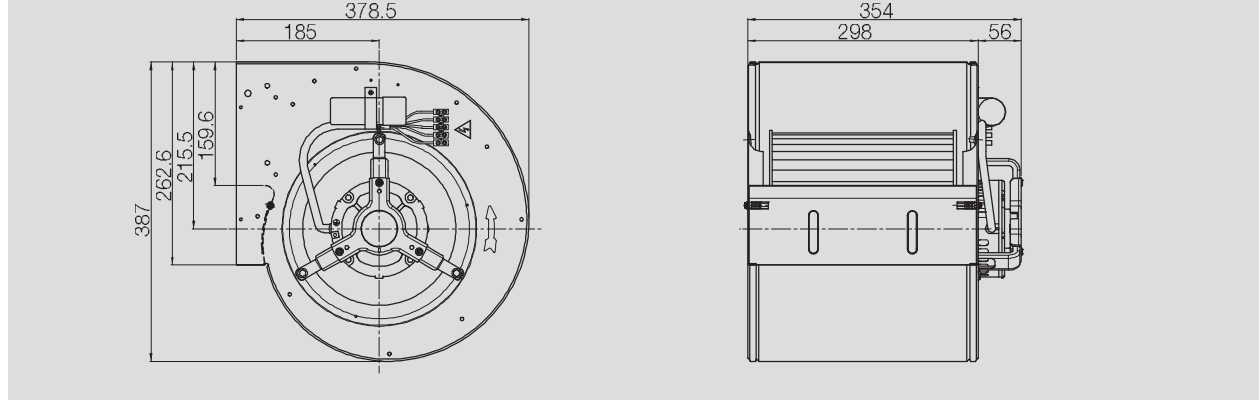
- (1) = Speed controllable via Transformer
- (2) = Speed controllable via TRIAC or Transformer
- (3) = Speed controllable via Inverter
- \* = No speed control available

[HI] High speed, [ME] Medium speed, [LO] Low speed

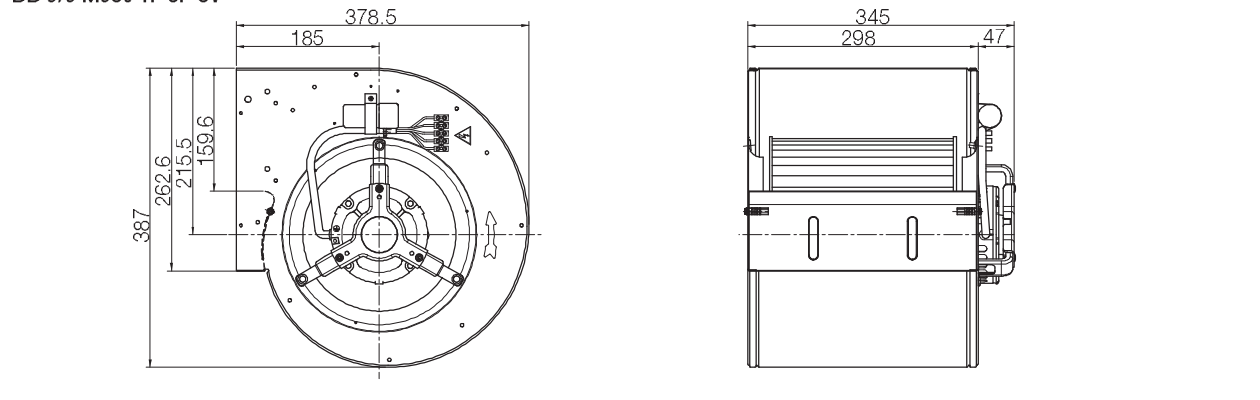
**Attention!** We suggest to do not use the fan in the grey marked area! The noise ratings given in the performance curves are sound power level  $L_{WA7}$ , see „Technical Description“.

## Dimensions in mm, subject to change.

DD 9/9 M940 1F 6P 3V

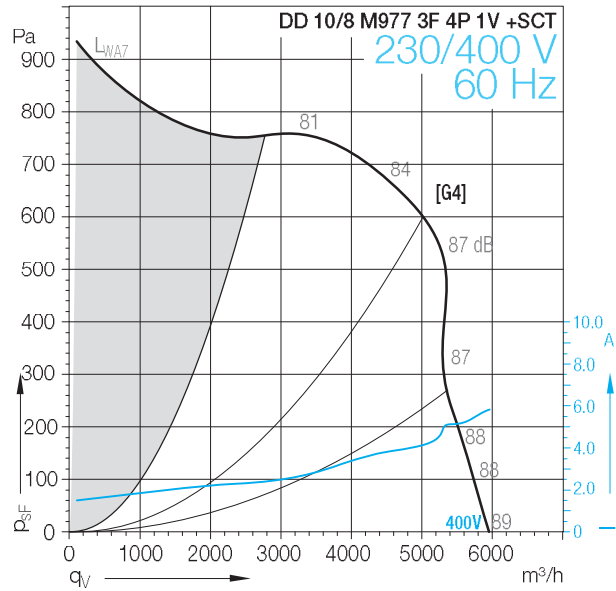
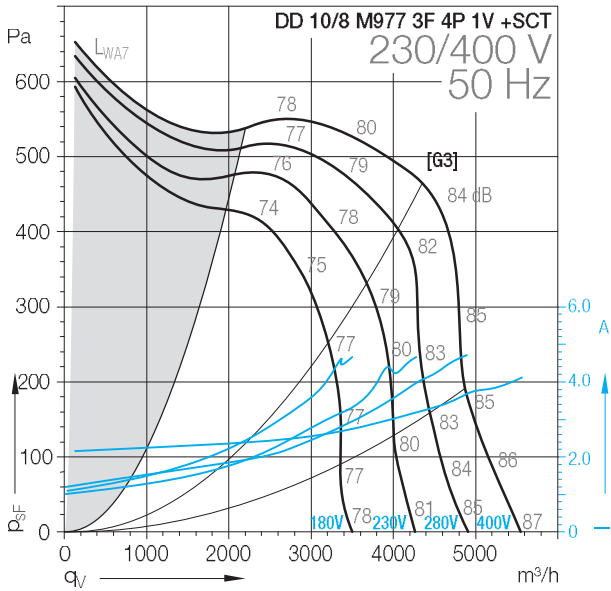
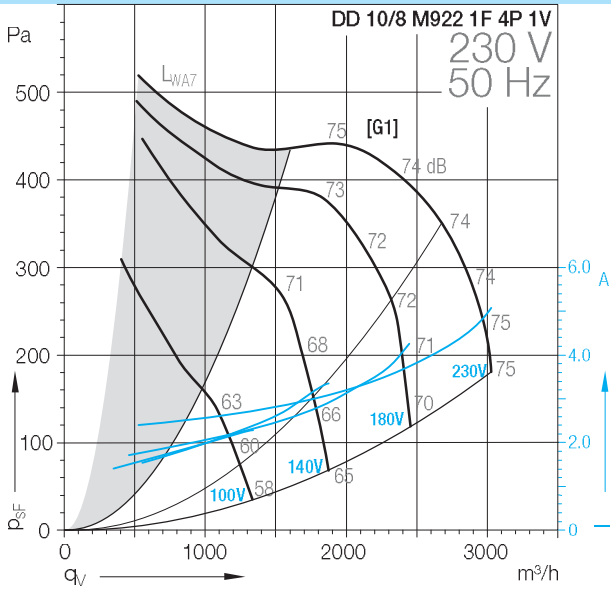


DD 9/9 M930 1F 6P 3V



# DD-10/8

## Technical Data



# DD-10/8

## Technical Data

	Speed control	Curves	Nominal motor power <b>W</b>	Poles -	Phases	Connection	Mains frequency <b>Hz</b>	Max. power consumption <b>W</b>	Max. current consumption <b>A</b>	Speed <b>1/min</b>
DD 10/8										
M922 1F 4P 1V	(2)	[G1]	373	4	1~		50	1163	4.8	1380
M977 3F 4P 1V +SCT	*	[G3/G4]	1500	4	3~	$\Delta/Y$	50/60	2509	4.7	1360

## Technical Data

	Operating Capacitor $\mu\text{F}$	Nominal capacitor voltage <b>V</b>	Motor protection class	Motor thermal class	Thermal protection	Media Temperature max. $^{\circ}\text{C}$	Fan weight <b>kg</b>	Density of media <b>kg/m<sup>3</sup></b>	Installation type (ISO 5801)	Article number
DD 10/8										
M922 1F 4P 1V	12.5	450	IP20	F	INT	40	13	1.2	B	6M0652
M977 3F 4P 1V +SCT			IP20	B	EXT	40	22	1.2	B	6M09Y3

(1) = Speed controllable via Transformer

(2) = Speed controllable via TRIAC or Transformer

(3) = Speed controllable via Inverter

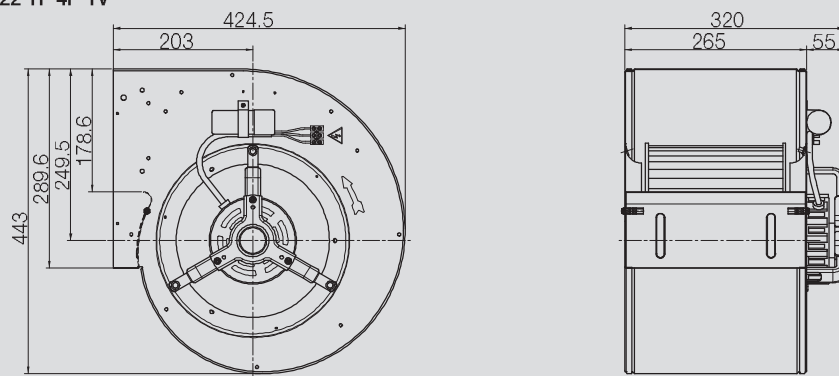
\* = No speed control available

[HI] High speed, [ME] Medium speed, [LO] Low speed

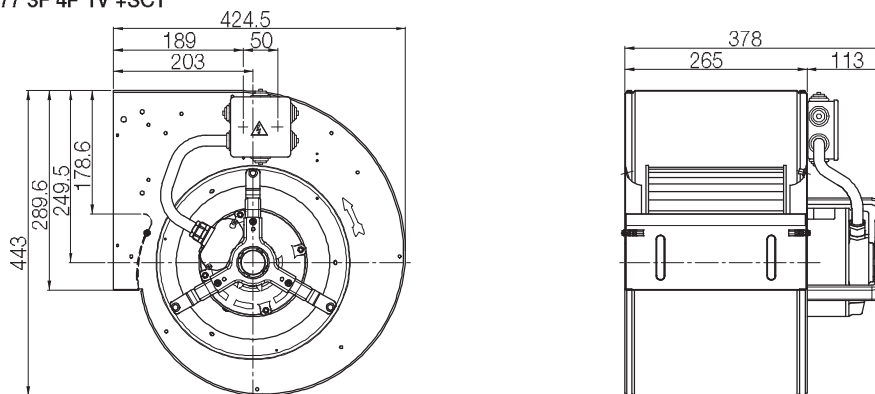
**Attention!** We suggest to do not use the fan in the grey marked area! The noise ratings given in the performance curves are sound power level  $L_{WA7}$ , see „Technical Description“.

## Dimensions in mm, subject to change.

### DD 10/8 M922 1F 4P 1V

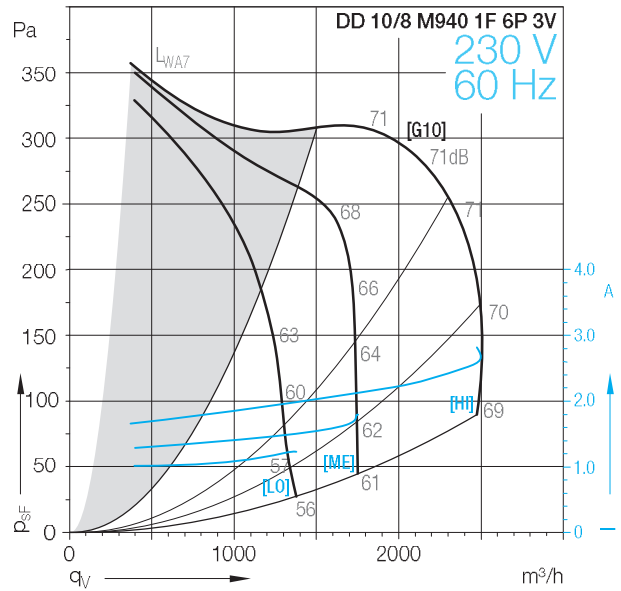
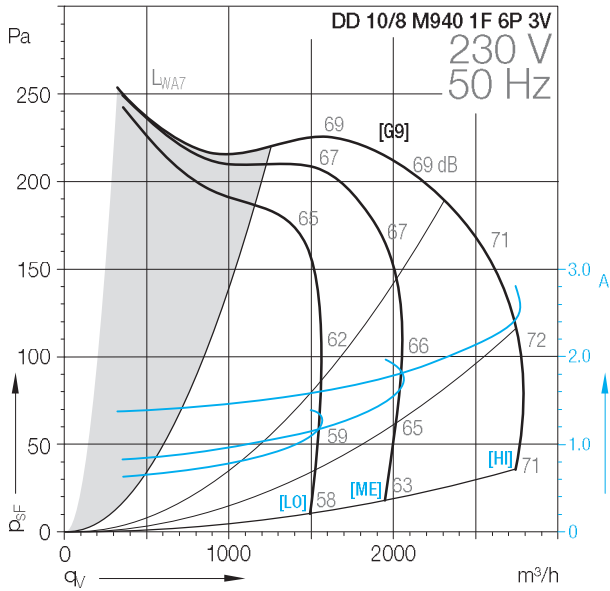
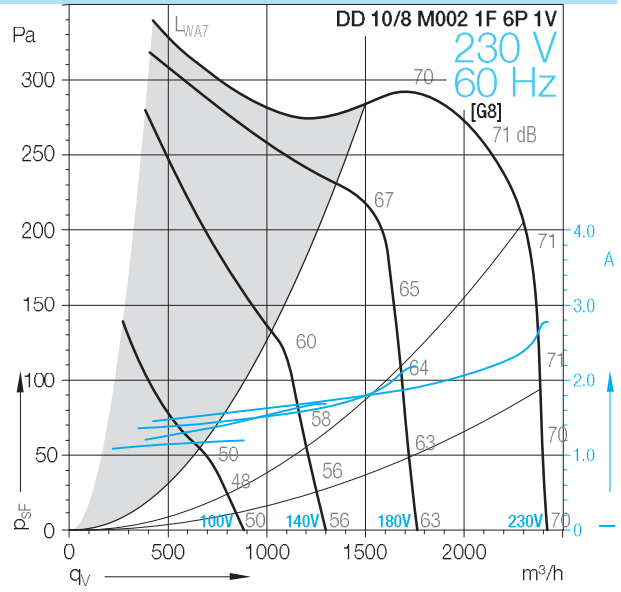
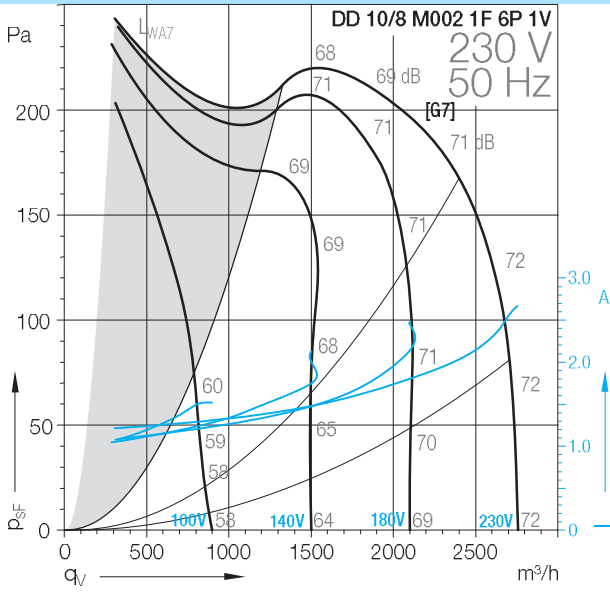


### DD 10/8 M977 3F 4P 1V +SCT



# DD-10/8

## Technical Data





# DD-10/8

Technical Data										
	Speed control	Curves	Nominal motor power <b>W</b>	Poles	Phases	Connection	Mains frequency <b>Hz</b>	Max. power consumption <b>W</b>	Max. current consumption <b>A</b>	Speed <b>1/min</b>
DD 10/8										
M002 1F 6P 1V	(1)	[G5/G6]	245	6	1~		50/60	591	2.6	850
M940 1F 6P 3V	*	[G7/G8]	245	6	1~		50/60	625	2.6	880

Technical Data										
	Operating Capacitor $\mu\text{F}$	Nominal capacitor voltage <b>V</b>	Motor protection class	Motor thermal class	Thermal protection	Media Temperature max. $^{\circ}\text{C}$	Fan weight <b>kg</b>	Density of media <b>kg/m<sup>3</sup></b>	Installation type (ISO 5801)	Article number
DD 10/8										
M002 1F 6P 1V	8	450	IP20	F	INT	60	13	1.2	B	6M0312
M940 1F 6P 3V	8	500	IP20	F	INT	40	13	1.2	B	6M0648

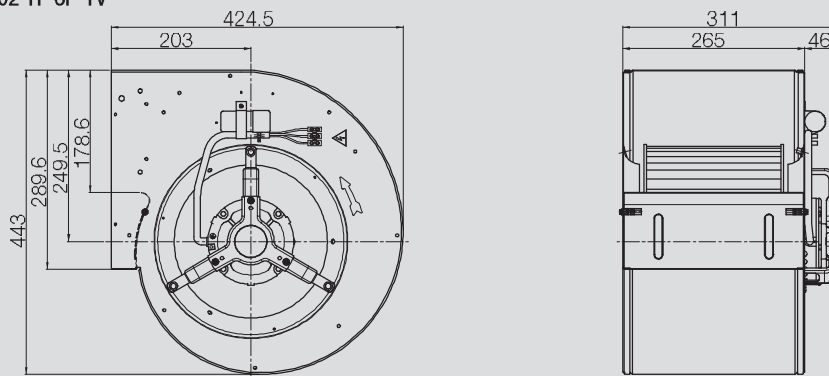
- (1) = Speed controllable via Transformer
- (2) = Speed controllable via TRIAC or Transformer
- (3) = Speed controllable via Inverter
- \* = No speed control available

[HI] High speed, [ME] Medium speed, [LO] Low speed

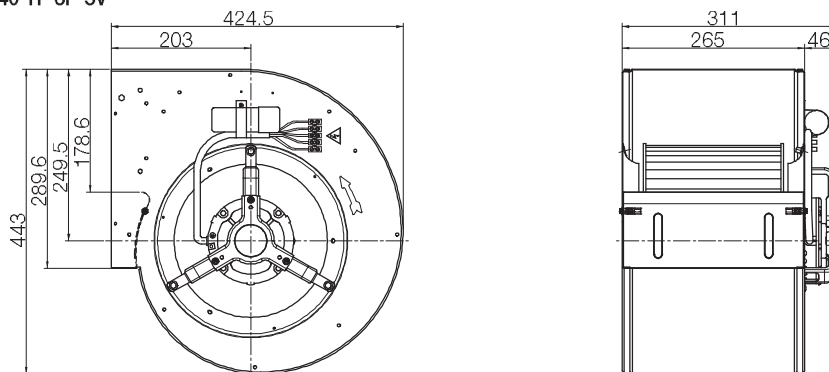
**Attention!** We suggest to do not use the fan in the grey marked area! The noise ratings given in the performance curves are sound power level  $L_{WA7}$ , see „Technical Description“.

### Dimensions in mm, subject to change.

DD 10/8 M002 1F 6P 1V

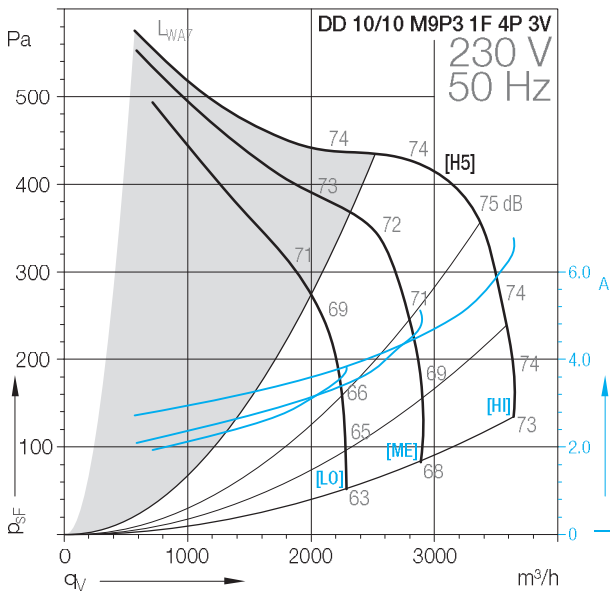
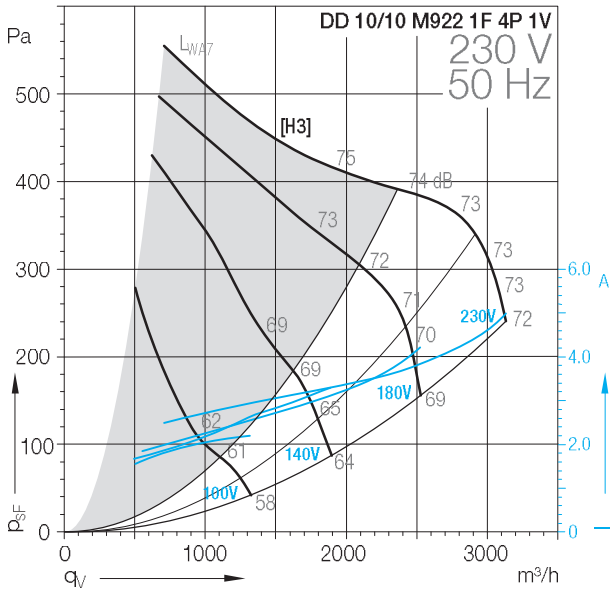
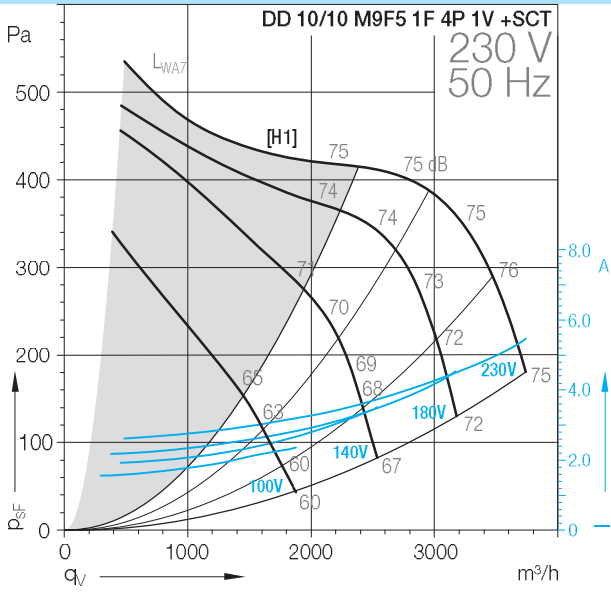


DD 10/8 M940 1F 6P 3V



# DD-10/10

**Technical Data**



# DD-10/10

## Technical Data

	Speed control	Curves	Nominal motor power <b>W</b>	Poles -	Phases	Connection	Mains frequency <b>Hz</b>	Max. power consumption <b>W</b>	Max. current consumption <b>A</b>	Speed <b>1/min</b>
DD 10/10										
M9F5 1F 4P 1V +SCT	(2)	[H1]	550	4	1~		50	1238	5.1	1200
M922 1F 4P 1V	(2)	[H3]	373	4	1~		50	1141	4.8	1380
M9P3 1F 4P 3V	*	[H5]	550	4	1~		50	1494	6.3	1370

## Technical Data

	Operating Capacitor <b>µF</b>	Nominal capacitor voltage <b>V</b>	Motor protection class	Motor thermal class	Thermal protection	Media Temperature max. <b>°C</b>	Fan weight <b>kg</b>	Density of media <b>kg/m³</b>	Installation type (ISO 5801)	Article number
DD 10/10										
M9F5 1F 4P 1V +SCT	16	500	IP44	F	EXT	40	15	1.2	B	6M09CU
M922 1F 4P 1V	12.5	450	IP20	F	INT	40	15	1.2	B	6M0627
M9P3 1F 4P 3V	16	450	IP20	F	INT	40	15	1.2	B	6M061U

(1) = Speed controllable via Transformer

(2) = Speed controllable via TRIAC or Transformer

(3) = Speed controllable via Inverter

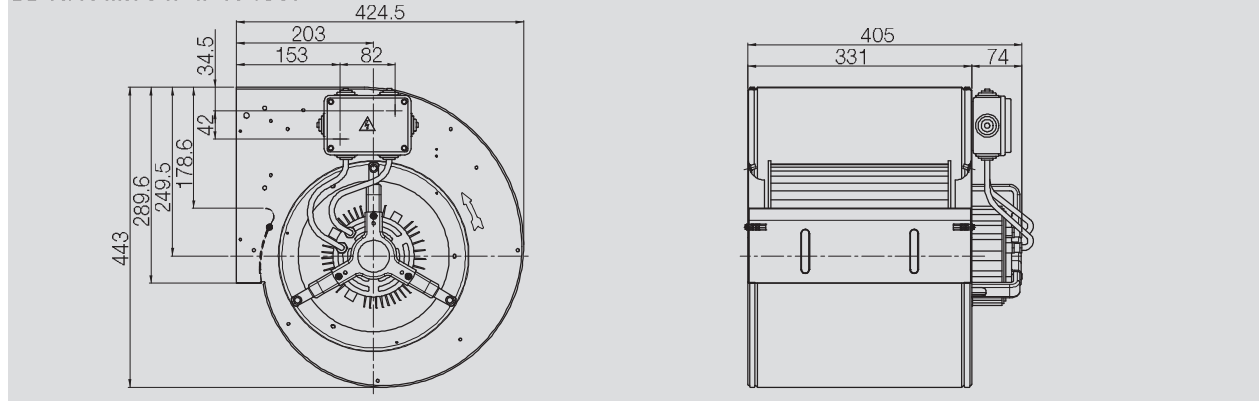
\* = No speed control available

[HI] High speed, [ME] Medium speed, [LO] Low speed

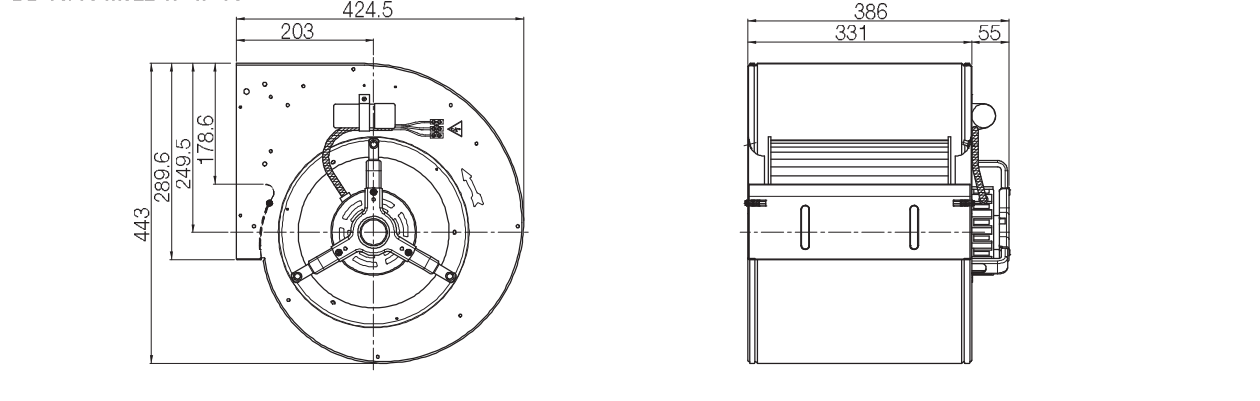
**Attention!** We suggest to do not use the fan in the grey marked area! The noise ratings given in the performance curves are sound power level  $L_{WA7}$ , see „Technical Description“.

## Dimensions in mm, subject to change.

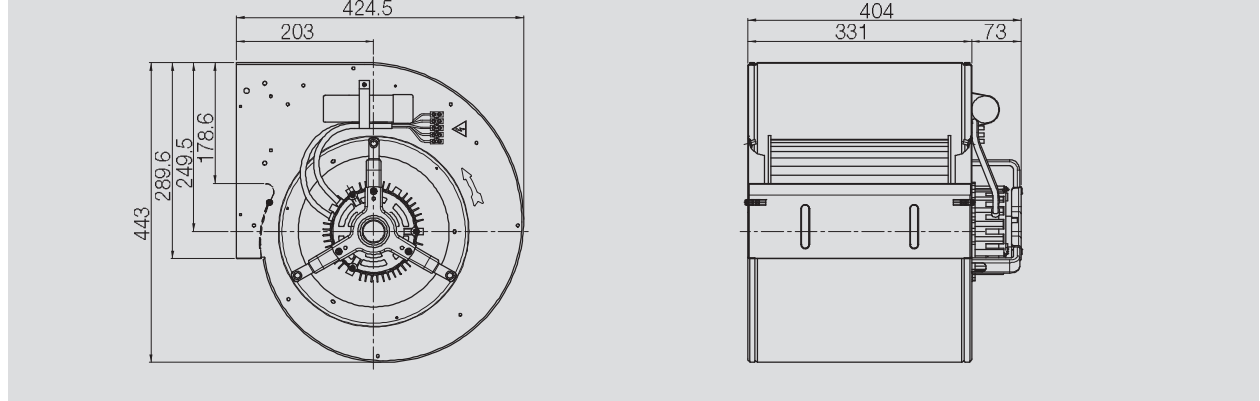
### DD 10/10 M9F5 1F 4P 1V +SCT



### DD 10/10 M922 1F 4P 1V

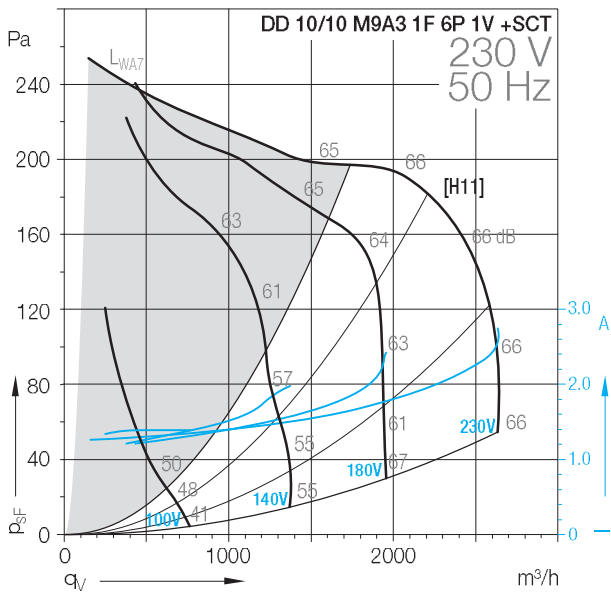
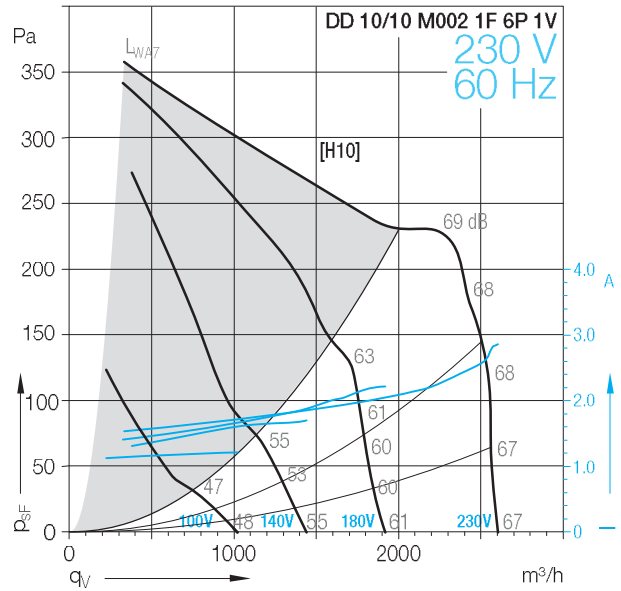
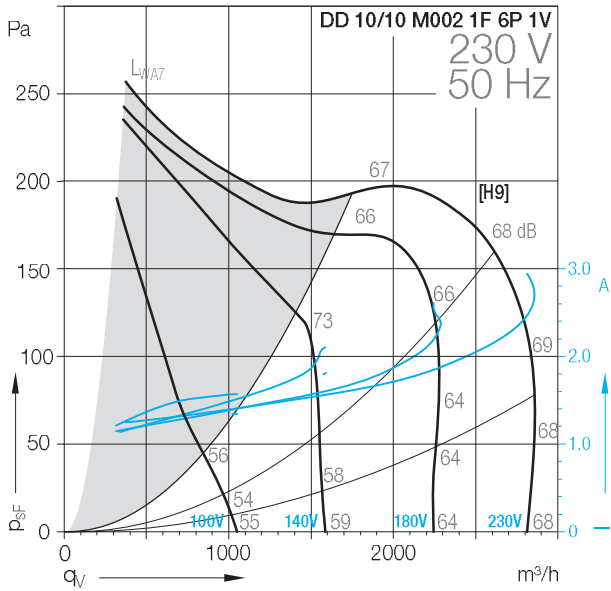
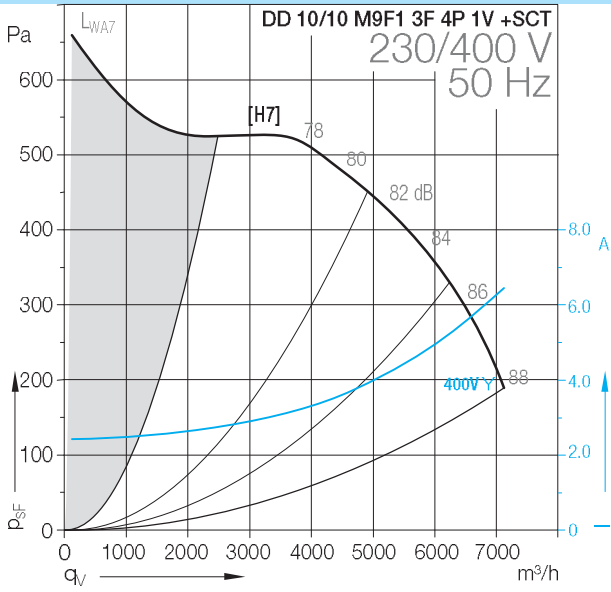


### DD 10/10 M9P3 1F 4P 3V



# DD-10/10

## Technical Data



# DD-10/10

Technical Data										
	Speed control	Curves	Nominal motor power	Poles	Phases	Connection	Mains frequency	Max. power consumption	Max. current consumption	Speed
DD 10/10			W	-			Hz	W	A	1/min
M9F1 3F 4P 1V +SCT	(3)	[H7]	1500	4	3~	Δ/Y	50/60	3616	5.6	1420
M002 1F 6P 1V	(1)	[H9/H10]	245	6	1~		50/60	643	2.8	850
M9A3 1F 6P 1V +SCT	(2)	[H11]	245	6	1~		50	551	2.6	830

Technical Data										
DD 10/10	Operating Capacitor	Nominal capacitor voltage	Motor protection class	Motor thermal class	Thermal protection	Media Temperature max.	Fan weight	Density of media	Installation type (ISO 5801)	Article number
	μF	V				°C	kg	kg/m <sup>3</sup>		
M9F1 3F 4P 1V +SCT			IP55	F	NO	40	15	1.2	B	6109A9
M002 1F 6P 1V	8	450	IP20	F	INT	40	15	1.2	B	6M0314
M9A3 1F 6P 1V +SCT	8	450	IP44	B	INT	40	15	1.2	B	6M0687

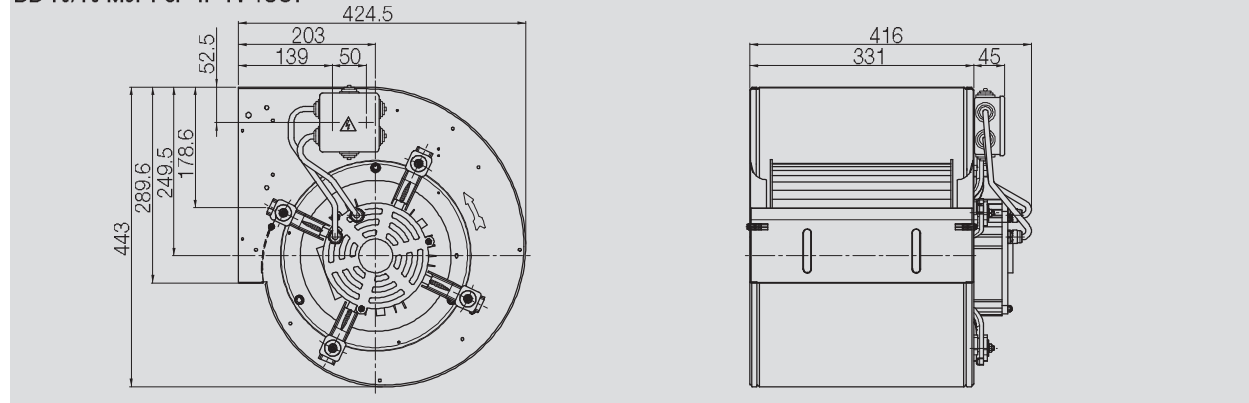
- (1) = Speed controllable via Transformer
- (2) = Speed controllable via TRIAC or Transformer
- (3) = Speed controllable via Inverter
- \* = No speed control available

[H] High speed, [ME] Medium speed, [LO] Low speed

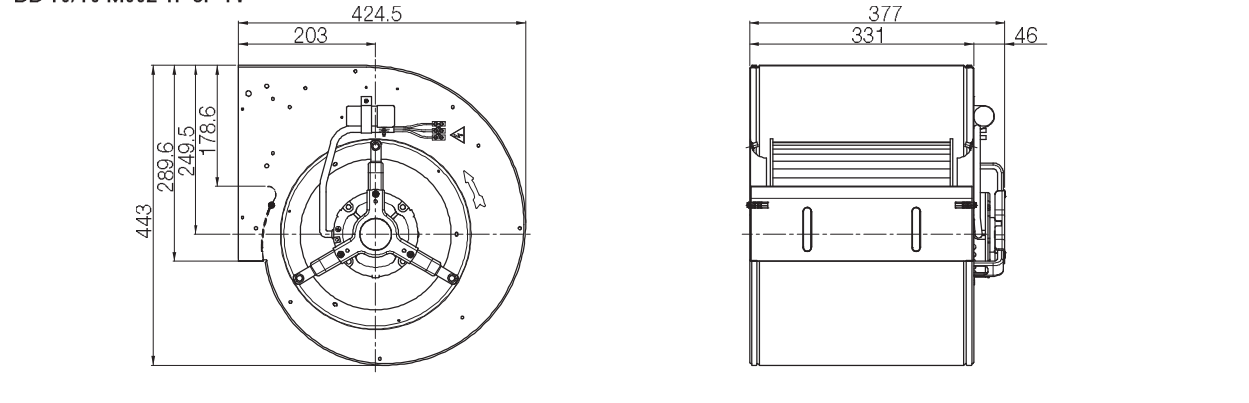
**Attention!** We suggest to do not use the fan in the grey marked area! The noise ratings given in the performance curves are sound power level  $L_{WA7}$ , see „Technical Description“.

### Dimensions in mm, subject to change.

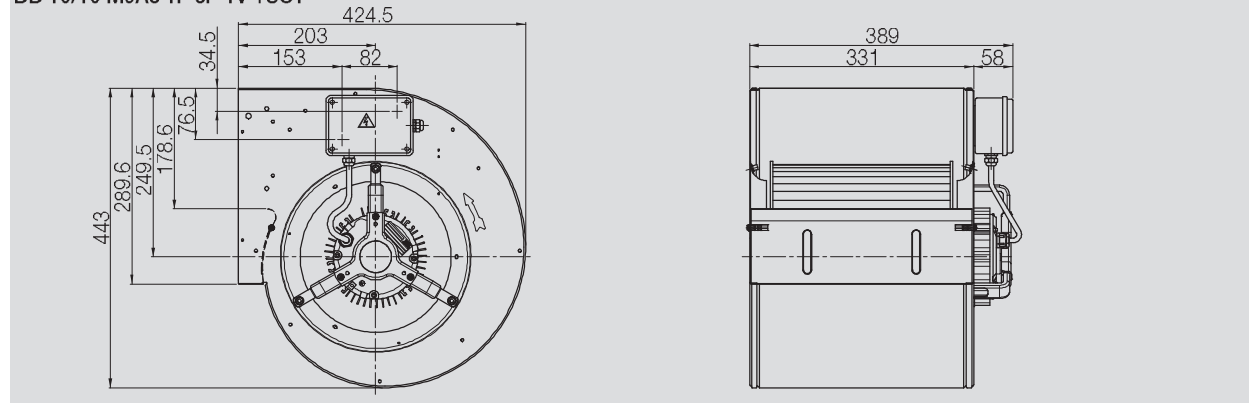
DD 10/10 M9F1 3F 4P 1V +SCT



DD 10/10 M002 1F 6P 1V

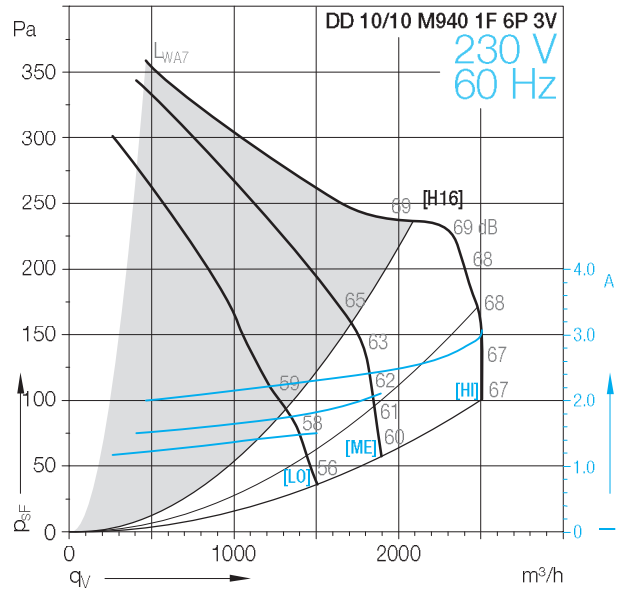
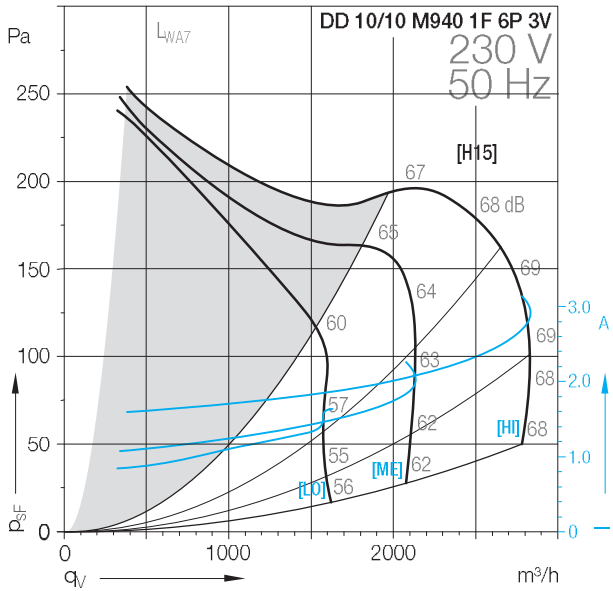
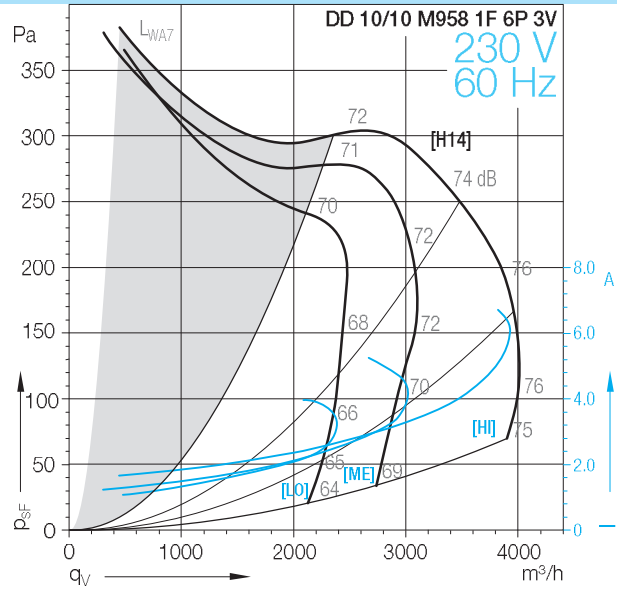
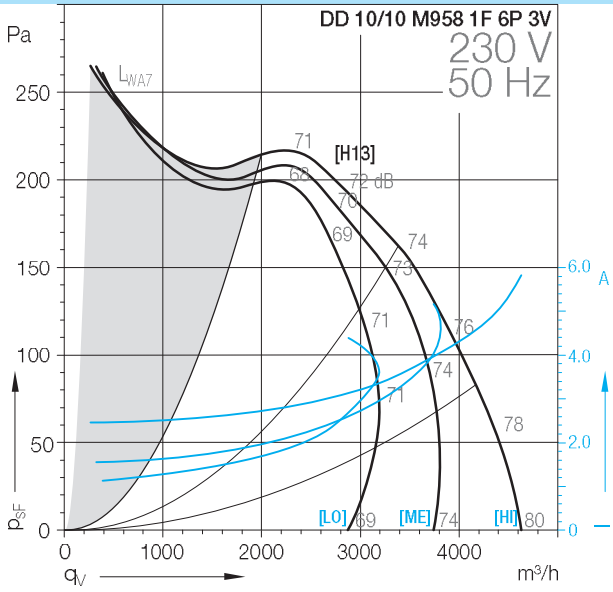


DD 10/10 M9A3 1F 6P 1V +SCT



# DD-10/10

## Technical Data



# DD-10/10

## Technical Data

	Speed control	Curves	Nominal motor power	Poles	Phases	Connection	Mains frequency	Max. power consumption	Max. current consumption	Speed
DD 10/10			<b>W</b>	-			<b>Hz</b>	<b>W</b>	<b>A</b>	<b>1/min</b>
M958 1F 6P 3V	*	[H13/H14]	500	6	1~		50/60	1155	5.7	930
M940 1F 6P 3V	*	[H15/H16]	245	6	1~		50/60	687	3	880

## Technical Data

	Operating Capacitor	Nominal capacitor voltage	Motor protection class	Motor thermal class	Thermal protection	Media Temperature max.	Fan weight	Density of media	Installation type (ISO 5801)	Article number
DD 10/10	$\mu\text{F}$	<b>V</b>				$^{\circ}\text{C}$	<b>kg</b>	<b>kg/m<sup>3</sup></b>		
M958 1F 6P 3V	10	450	IP20	B	INT	40	21	1.2	B	6M06Z5
M940 1F 6P 3V	8	500	IP20	F	INT	40	15	1.2	B	6M06Z4

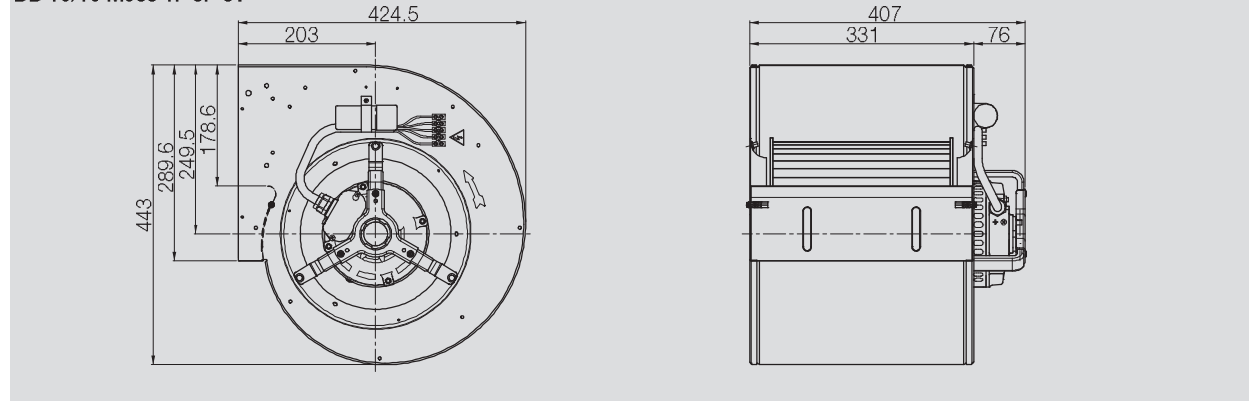
- (1) = Speed controllable via Transformer
- (2) = Speed controllable via TRIAC or Transformer
- (3) = Speed controllable via Inverter
- \* = No speed control available

[HI] High speed, [ME] Medium speed, [LO] Low speed

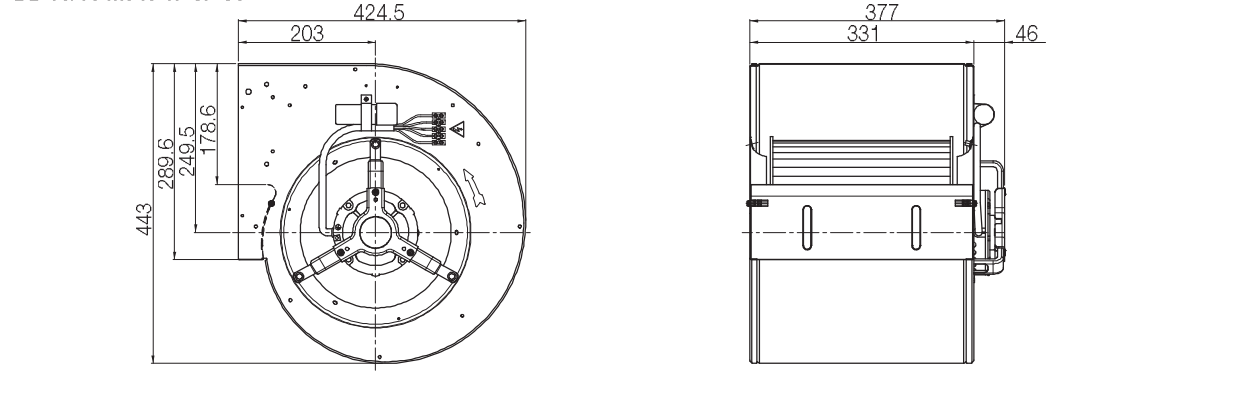
**Attention!** We suggest to do not use the fan in the grey marked area! The noise ratings given in the performance curves are sound power level  $L_{WA7}$ , see „Technical Description“.

## Dimensions in mm, subject to change.

### DD 10/10 M958 1F 6P 3V

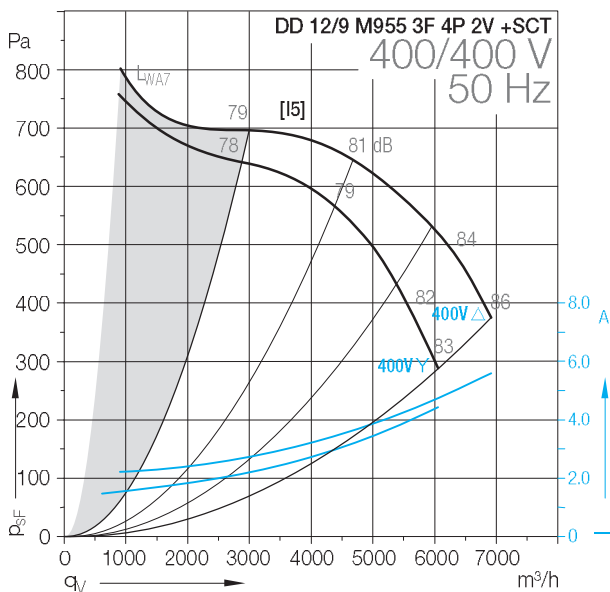
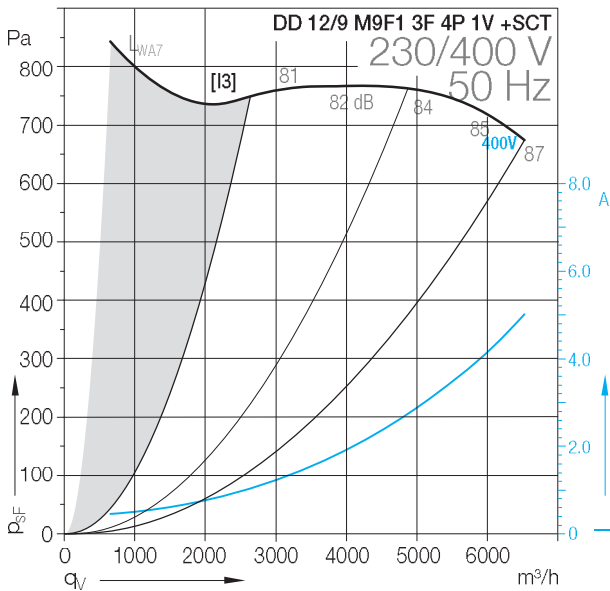
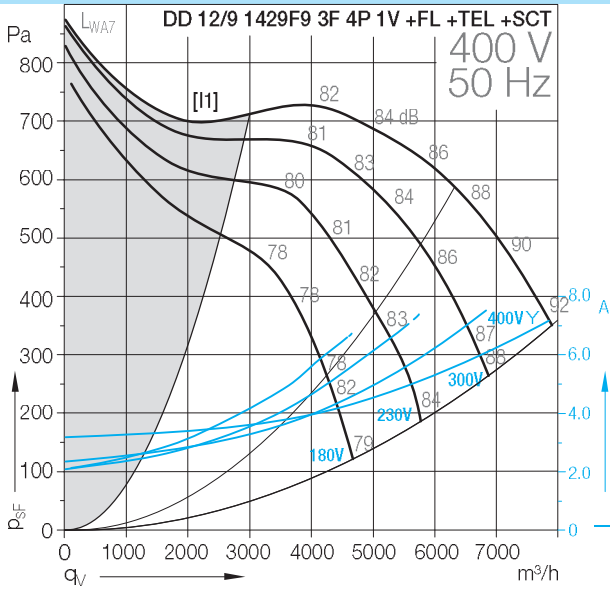


### DD 10/10 M940 1F 6P 3V



**DD-12/9**

**Technical Data**





# DD-12/9

Technical Data										
	Speed control	Curves	Nominal motor power	Poles	Phases	Connection	Mains frequency	Max. power consumption	Max. current consumption	Speed
			W	-			Hz	W	A	1/min
DD 12/9										
1429F9 3F 4P 1V +FL	(1)/(3)	[1]	2200	4	3~	Y	50	4375	7	1390
M9F1 3F 4P 1V +SCT	(3)	[3/4]	1500	4	3~	$\Delta$ Y	50	3515	5.6	1420
M955 3F 4P 2V +SCT	(1)	[5]	1500	4	3~		50	3489	5	1300

Technical Data										
	Operating Capacitor	Nominal capacitor voltage	Motor protection class	Motor thermal class	Thermal protection	Media Temperature max. °C	Fan weight kg	Density of media kg/m <sup>3</sup>	Installation type (ISO 5801)	Article number
DD 12/9										
1429F9 3F 4P 1V +FL			IP55	F	NO	40	38	1.2	B	6108P3
M9F1 3F 4P 1V +SCT			IP55	F	NO	40	25	1.2	B	61092M
M955 3F 4P 2V +SCT			IP20	F	EXT	40	30	1.2	B	61099N

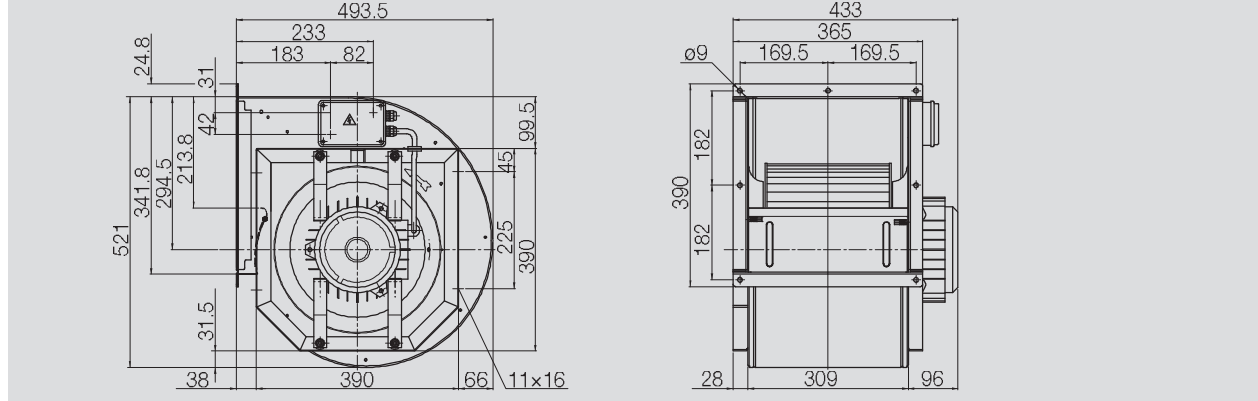
- (1) = Speed controllable via Transformer
- (2) = Speed controllable via TRIAC or Transformer
- (3) = Speed controllable via Inverter
- \* = No speed control available

[HI] High speed, [ME] Medium speed, [LO] Low speed

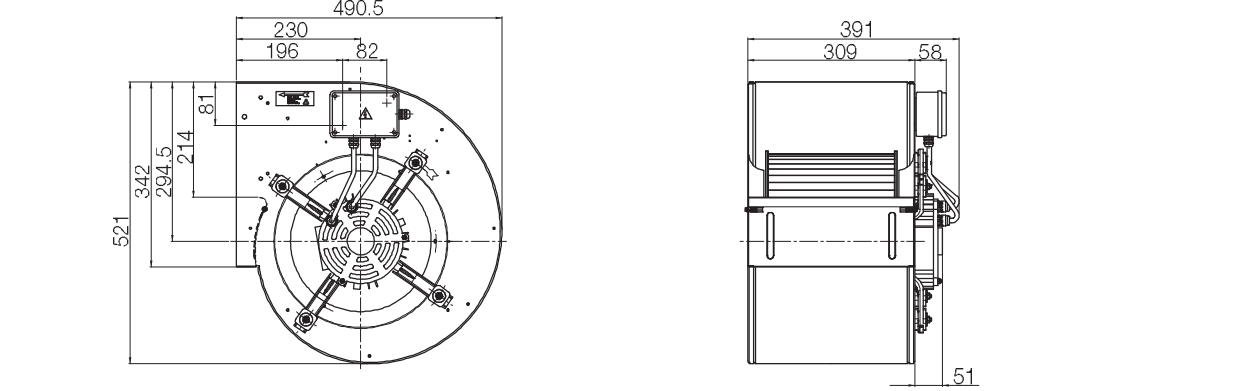
**Attention!** We suggest to do not use the fan in the grey marked area! The noise ratings given in the performance curves are sound power level  $L_{WA7}$ , see „Technical Description“.

**Dimensions** in mm, subject to change.

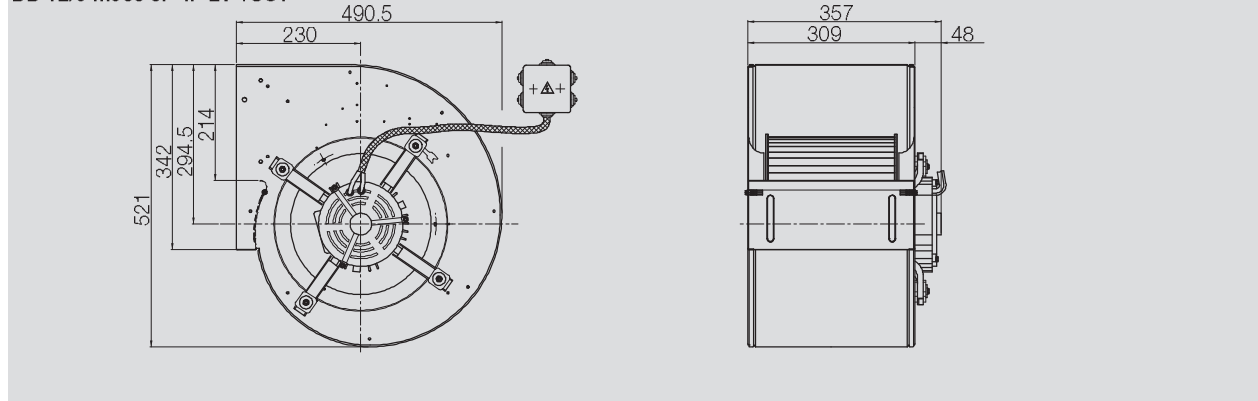
DD 12/9 1429F9 3F 4P 1V +FL +TEL +SCT



DD 12/9 M9F1 3F 4P 1V +SCT

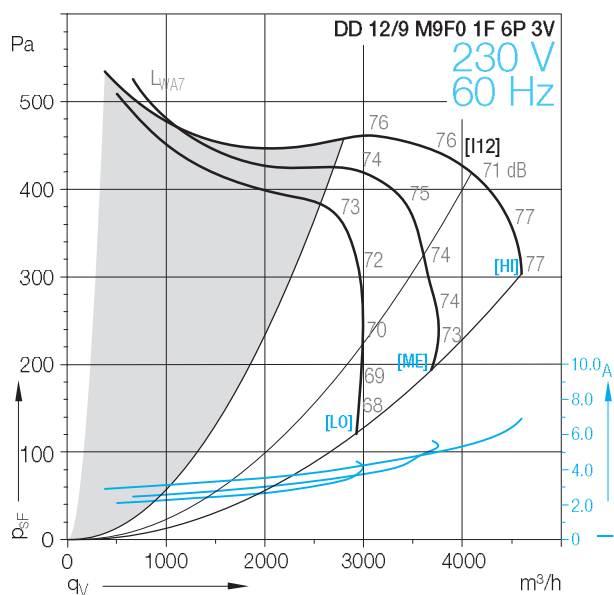
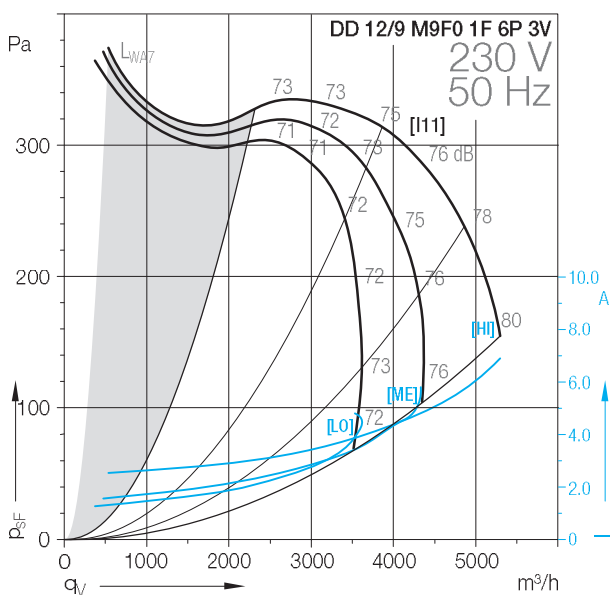
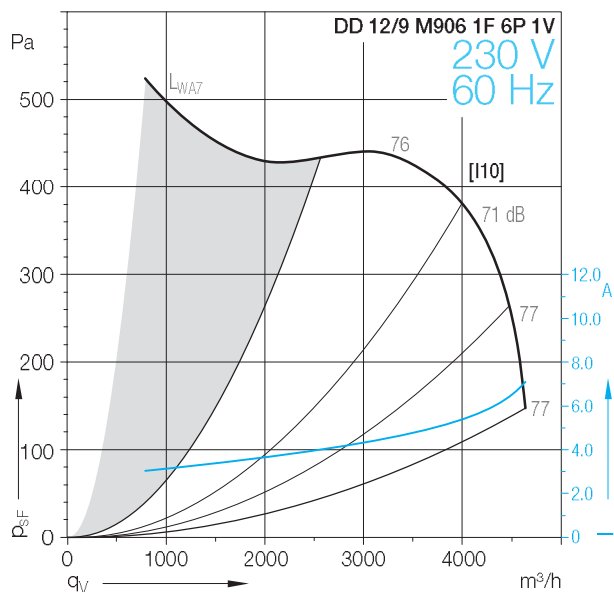
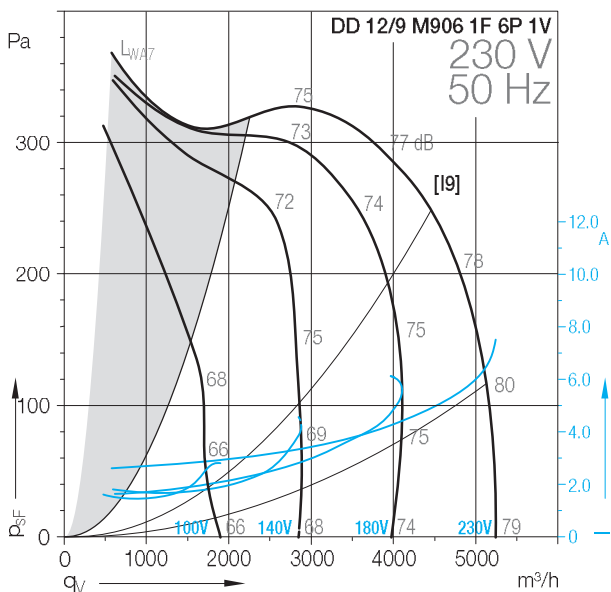
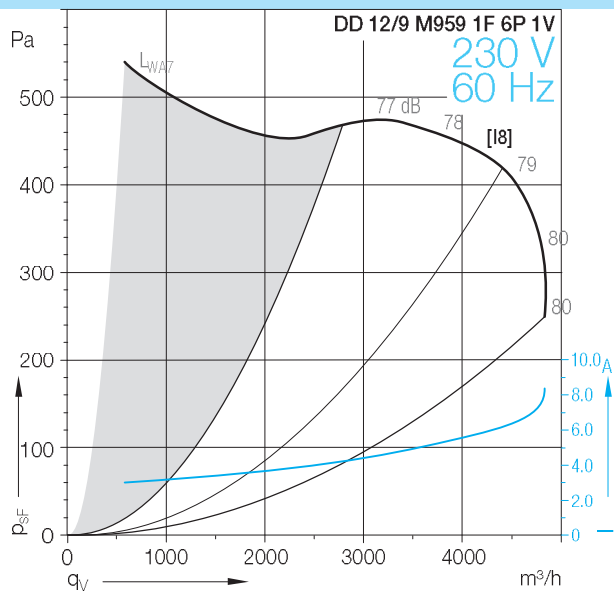
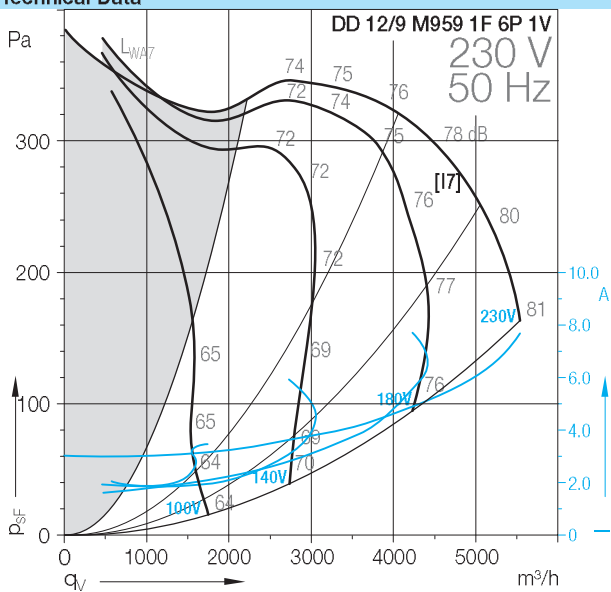


DD 12/9 M955 3F 4P 2V +SCT



# DD-12/9

## Technical Data



# DD-12/9

## Technical Data

	Speed control	Curves	Nominal motor power	Poles	Phases	Connection	Mains frequency	Max. power consumption	Max. current consumption	Speed
			W	-			Hz	W	A	1/min
DD 12/9										
M959 1F 6P 1V	(2)	[I7/18]	736	6	1~		50/60	1659	7.4	925
M906 1F 6P 1V	(2)	[I9/110]	590	6	1~		50/60	1608	6.8	910
M9F0 1F 6P 3V	*	[I11/112]	736	6	1~		50/60	1500	6.5	930

## Technical Data

	Operating Capacitor	Nominal capacitor voltage	Motor protection class	Motor thermal class	Thermal protection	Media Temperature max.	Fan weight	Density of media	Installation type (ISO 5801)	Article number
	µF	V				°C	kg	kg/m³		
DD 12/9										
M959 1F 6P 1V	20	450	IP20	B	INT	40	26	1.2	B	6M09HG
M906 1F 6P 1V	16	450	IP20	B	INT	40	25	1.2	B	6M06L4
M9F0 1F 6P 3V	20	450	IP20	F	EXT	40	25	1.2	B	6M06A6

(1) = Speed controllable via Transformer

(2) = Speed controllable via TRIAC or Transformer

(3) = Speed controllable via Inverter

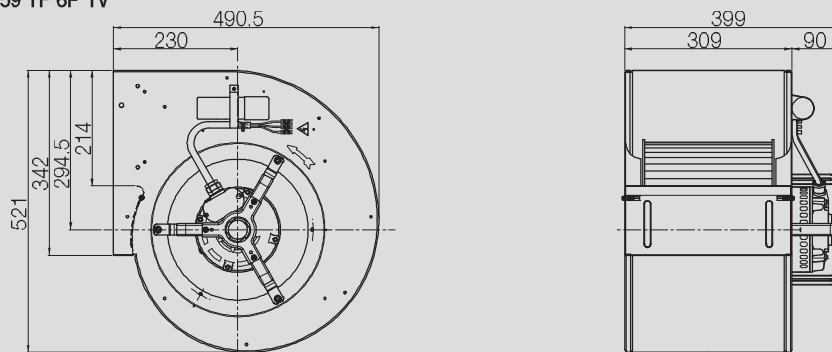
\* = No speed control available

[HI] High speed, [ME] Medium speed, [LO] Low speed

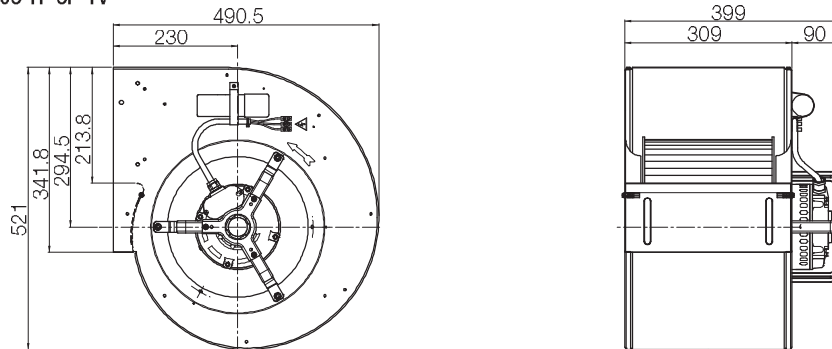
**Attention!** We suggest to do not use the fan in the grey marked area! The noise ratings given in the performance curves are sound power level  $L_{WA7}$ , see „Technical Description“.

## Dimensions in mm, subject to change.

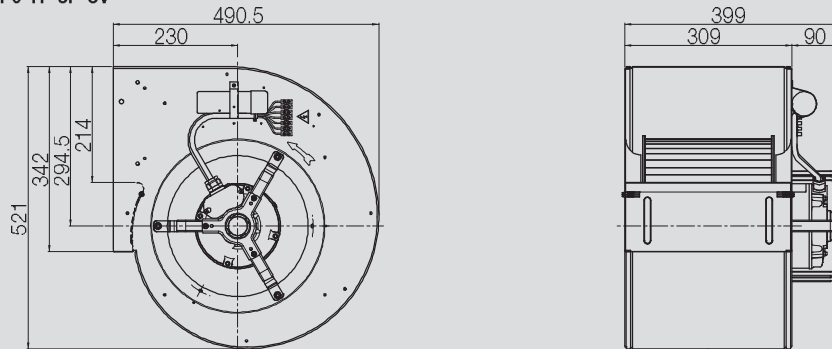
DD 12/9 M959 1F 6P 1V



DD 12/9 M906 1F 6P 1V

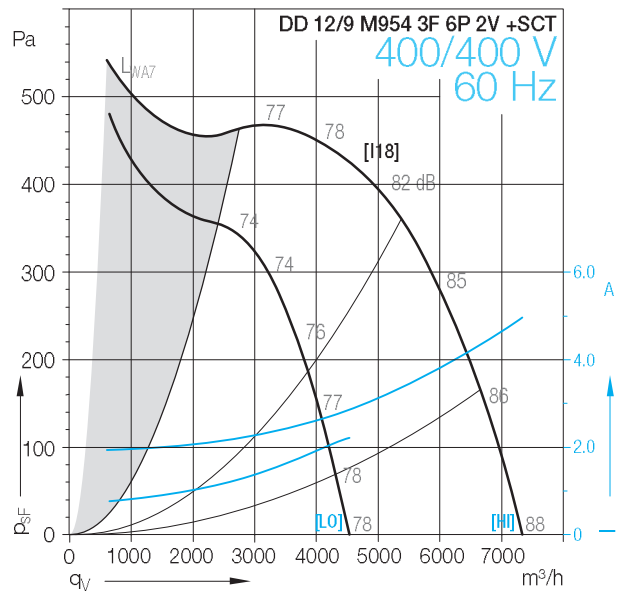
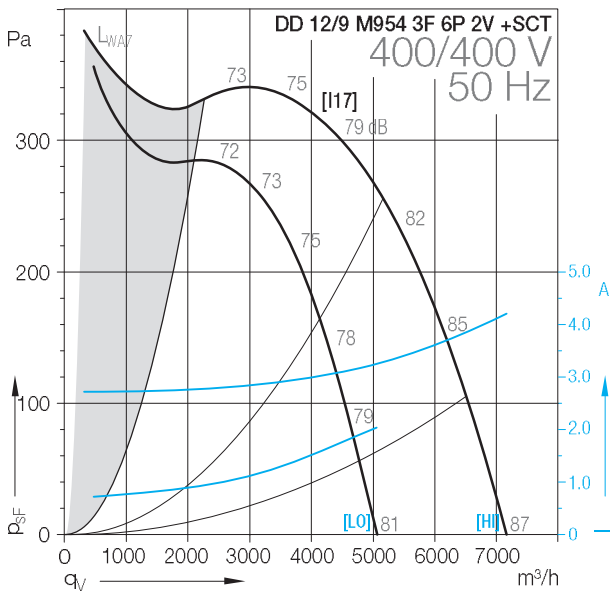
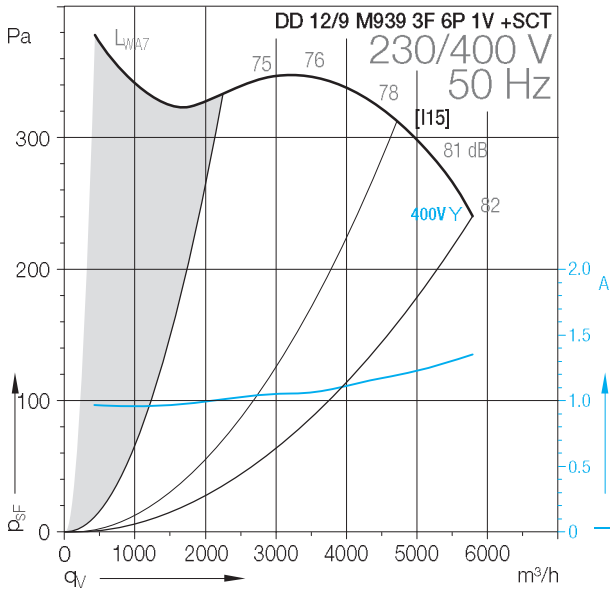
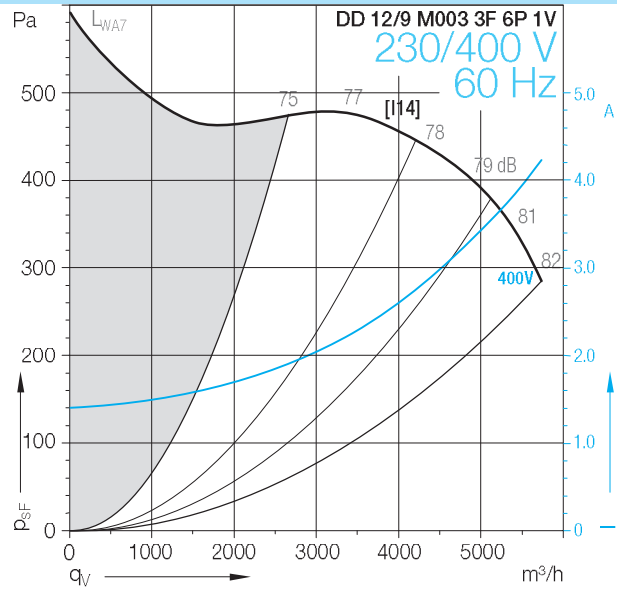
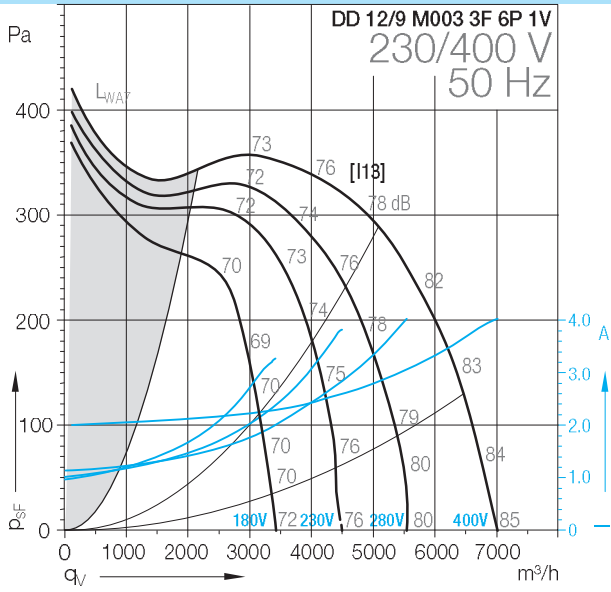


DD 12/9 M9F0 1F 6P 3V



# DD-12/9

## Technical Data



# DD-12/9

## Technical Data

	Speed control	Curves	Nominal motor power kW	Poles	Phases	Connection	Mains frequency Hz	Max. power consumption W	Max. current consumption A	Speed 1/min
DD 12/9				–						
M003 3F 6P 1V	(1)	[I13/I14]	1100	6	3~	ΔY	50/60	2231	4.3	900
M939 3F 6P 1V +SCT	*	[I15]	1300	6	3~	ΔY	50	1617	3.3	900
M954 3F 6P 2V +SCT	(2)/(3)	[I17/I18]	1100	6	3~	ΔY	50/60	2128	4	920

## Technical Data

	Operating Capacitor	Nominal capacitor voltage	Motor protection class	Motor thermal class	Thermal protection	Media Temperature max. °C	Fan weight kg	Density of media kg/m <sup>3</sup>	Installation type (ISO 5801)	Article number
DD 12/9										
M003 3F 6P 1V			IP20	B	NO	40	25	1.2	B	6M0318
M939 3F 6P 1V +SCT			IP44		EXT	40	25	1.2	B	6M0656
M954 3F 6P 2V +SCT			IP20	F	EXT	40	25	1.2	B	6109FT

(1) = Speed controllable via Transformer

(2) = Speed controllable via TRIAC or Transformer

(3) = Speed controllable via Inverter

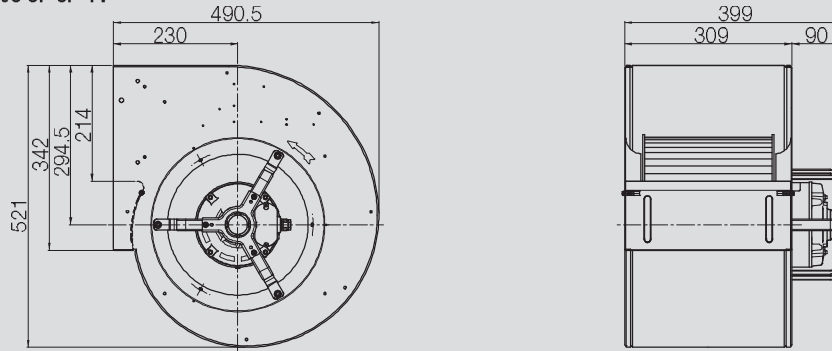
\* = No speed control available

[HI] High speed, [ME] Medium speed, [LO] Low speed

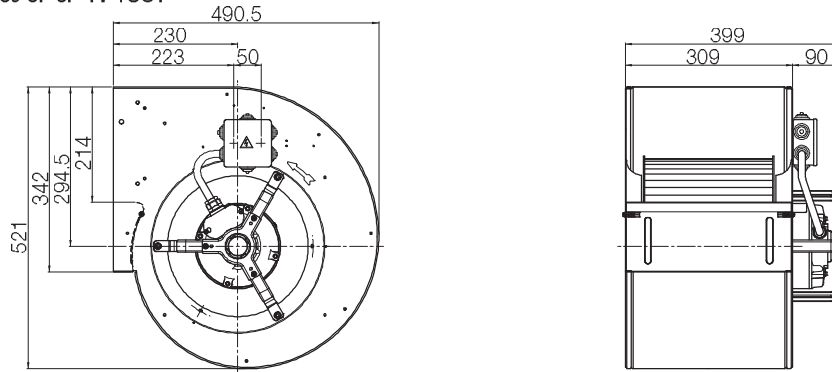
**Attention!** We suggest to do not use the fan in the grey marked area! The noise ratings given in the performance curves are sound power level  $L_{WA7}$ , see „Technical Description“.

## Dimensions in mm, subject to change.

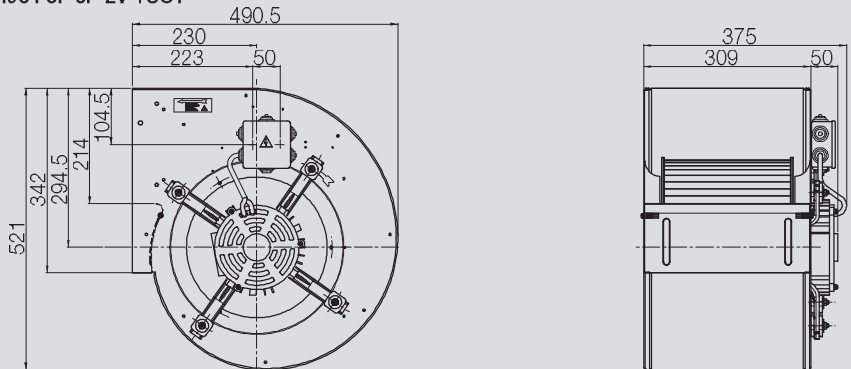
DD 12/9 M003 3F 6P 1V



DD 12/9 M939 3F 6P 1V +SCT

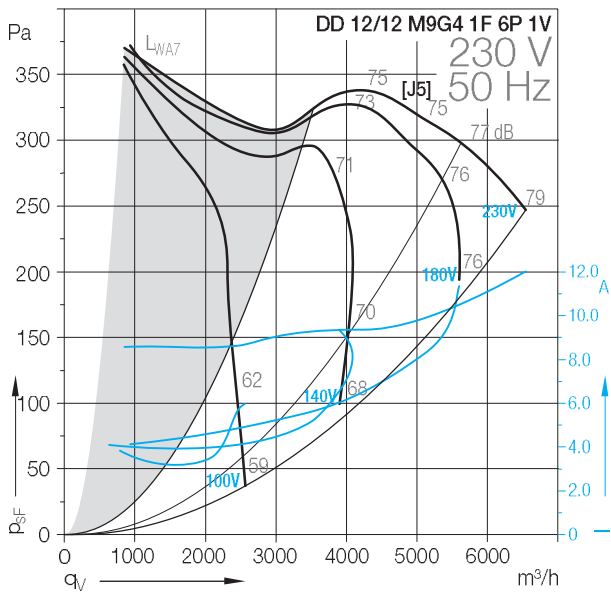
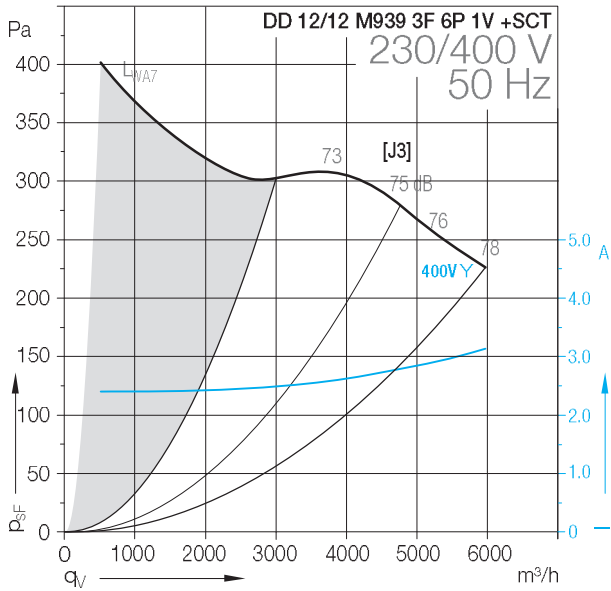
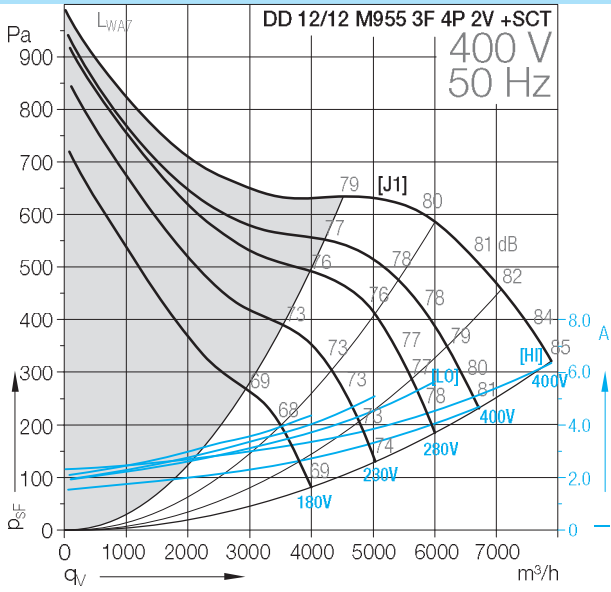


DD 12/9 M954 3F 6P 2V +SCT



# DD-12/12

**Technical Data**



# DD-12/12

## Technical Data

	Speed control	Curves	Nominal motor power	Poles	Phases	Connection	Mains frequency	Max. power consumption	Max. current consumption	Speed
DD 12/12			W	-			Hz	W	A	1/min
M955 3F 4P 2V +SCT	(1)	[J1]	1500	4	3~		50	3863	5.4	1300
M939 3F 6P 1V +SCT	*	[J3]	1300	6	3~	$\Delta/Y$	50	1534	3.2	900
M9G4 1F 6P 1V	(1)	[J5]	1100	6	1~		50	2132	10	940

## Technical Data

	Operating Capacitor	Nominal capacitor voltage	Motor protection class	Motor thermal class	Thermal protection	Media Temperature max.	Fan weight	Density of media	Installation type (ISO 5801)	Article number
DD 12/12	$\mu\text{F}$	V				$^{\circ}\text{C}$	kg	$\text{kg/m}^3$		
M955 3F 4P 2V +SCT			IP20	F	EXT	40	29	1.2	B	61090P
M939 3F 6P 1V +SCT			IP44	B	EXT	40	26	1.2	B	6M0677
M9G4 1F 6P 1V	25	450	IP20	F	EXT	40	28	1.2	B	61091A

(1) = Speed controllable via Transformer

(2) = Speed controllable via TRIAC or Transformer

(3) = Speed controllable via Inverter

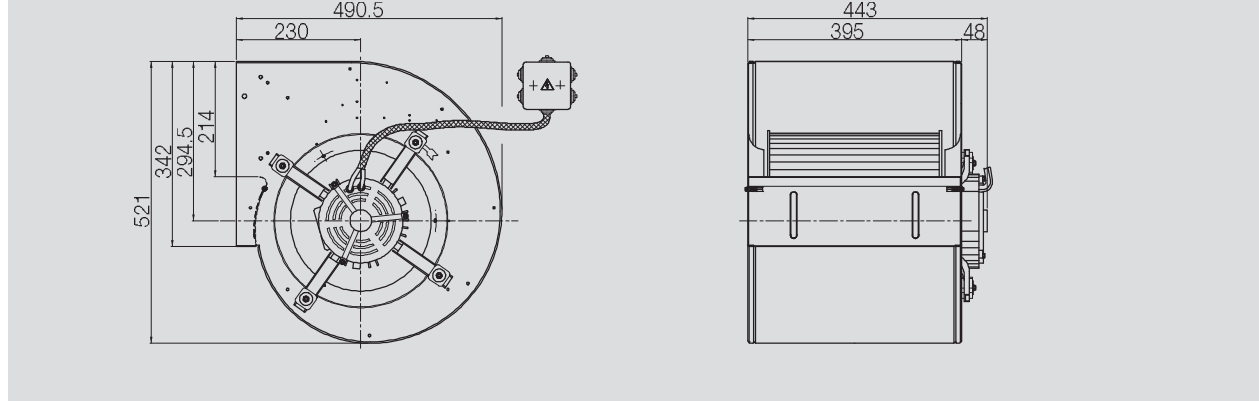
\* = No speed control available

[H] High speed, [ME] Medium speed, [LO] Low speed

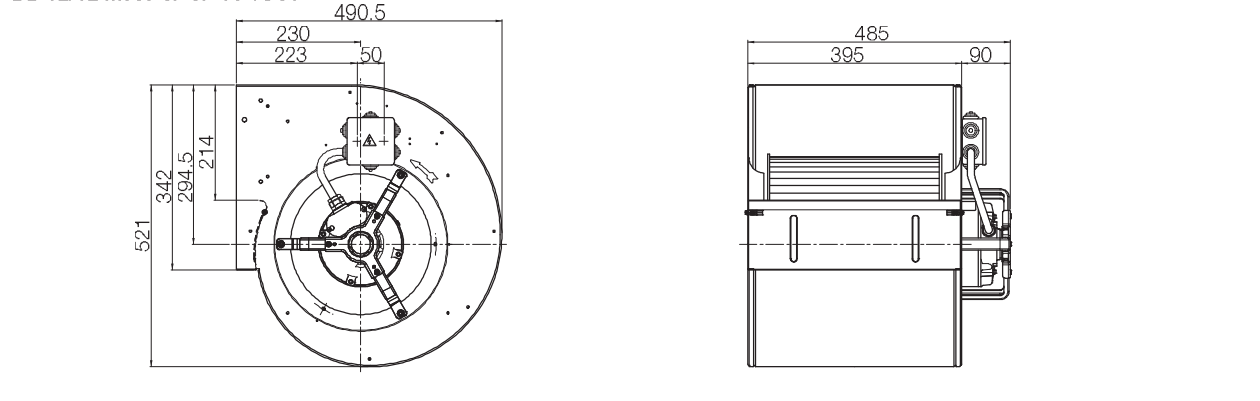
**Attention!** We suggest to do not use the fan in the grey marked area! The noise ratings given in the performance curves are sound power level  $L_{WA7}$ , see „Technical Description“.

## Dimensions in mm, subject to change.

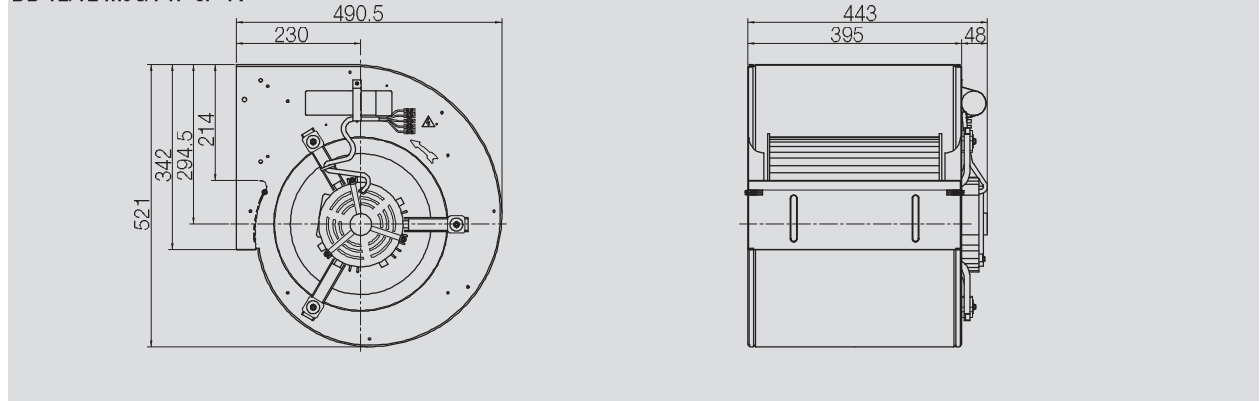
### DD 12/12 M955 3F 4P 2V +SCT



### DD 12/12 M939 3F 6P 1V +SCT

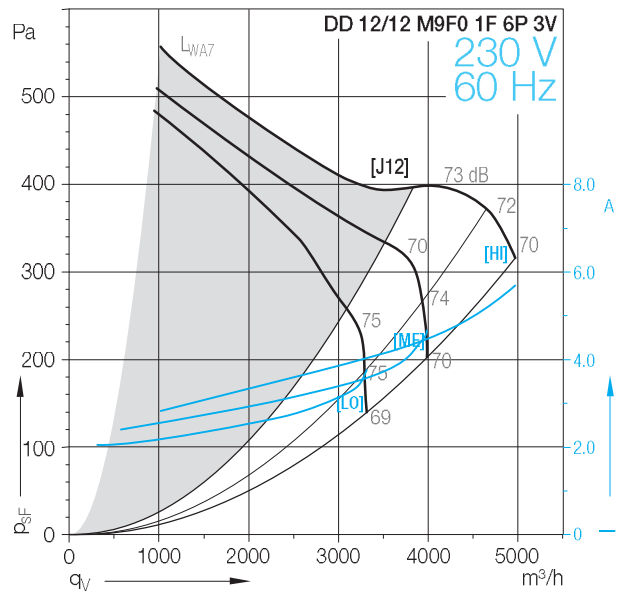
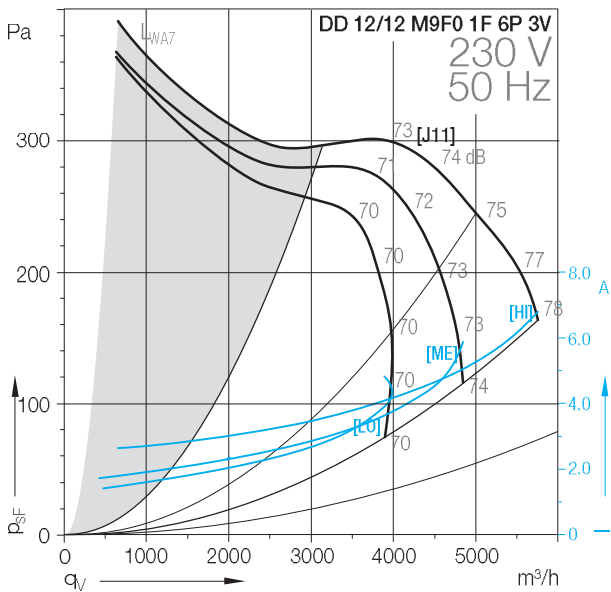
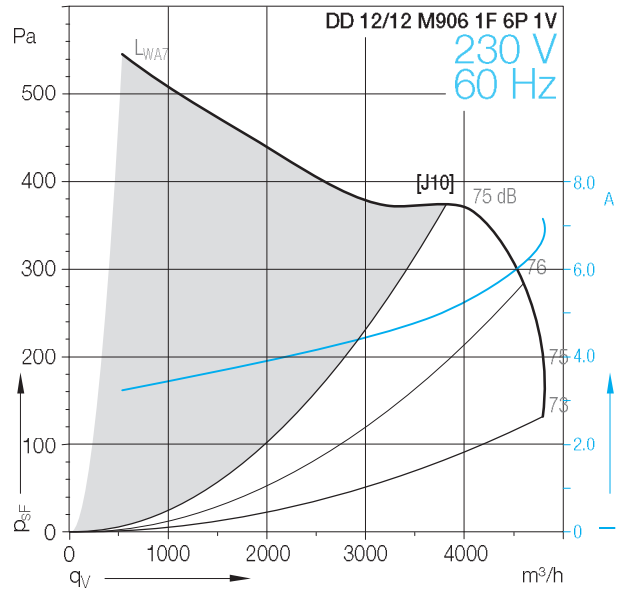
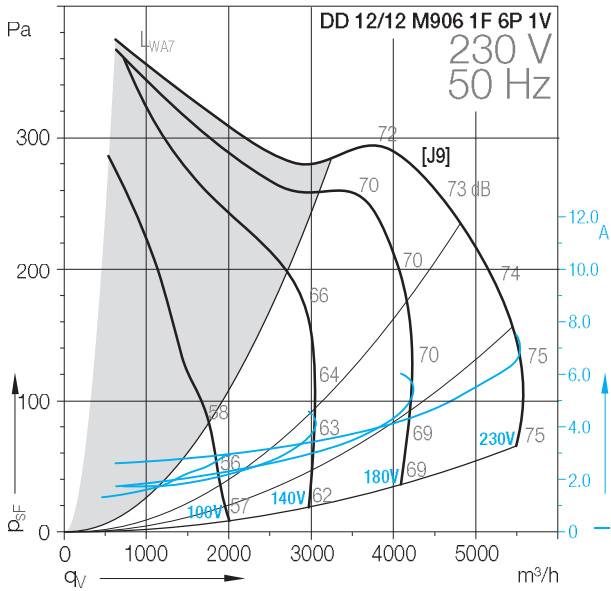
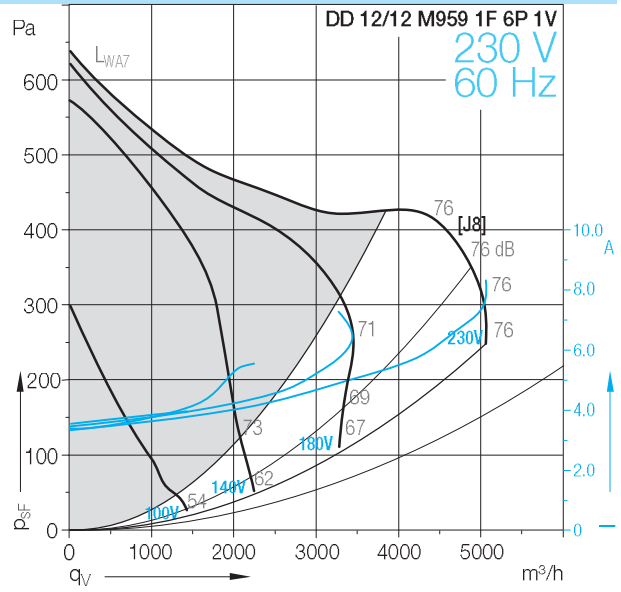
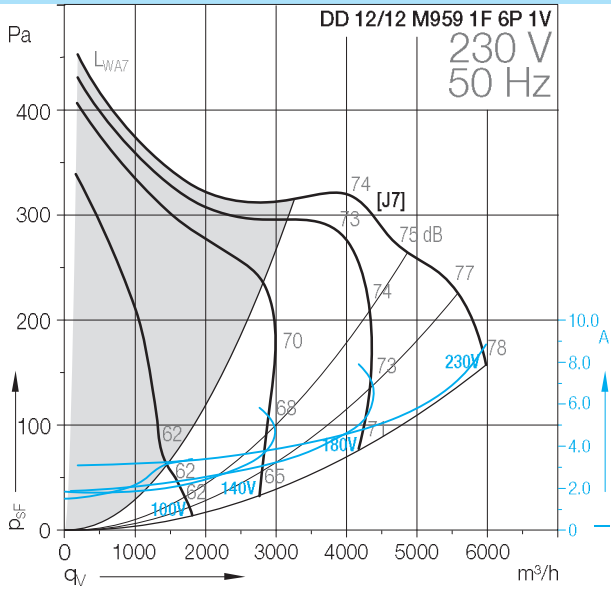


### DD 12/12 M9G4 1F 6P 1V



# DD-12/12

## Technical Data





# DD-12/12

## Technical Data

	Speed control	Curves	Nominal motor power	Poles	Phases	Connection	Mains frequency	Max. power consumption	Max. current consumption	Speed
DD 12/12			W	–			Hz	W	A	1/min
M959 1F 6P 1V	(2)	[J7/J8]	736	6	1~		50/60	1878	7.6	925
M906 1F 6P 1V	(2)	[J9/J10]	590	6	1~		50/60	1600	6.9	910
M9F0 1F 6P 3V	*	[J11/J12]	736	6	1~		50/60	1500	6.4	930

## Technical Data

	Operating Capacitor	Nominal capacitor voltage	Motor protection class	Motor thermal class	Thermal protection	Media Temperature max.	Fan weight	Density of media	Installation type (ISO 5801)	Article number
DD 12/12	µF	V				°C	kg	kg/m³		
M959 1F 6P 1V	20	450	IP20	B	INT	40	26	1.2	B	6M0961
M906 1F 6P 1V	16	450	IP20	B	INT	40	26	1.2	B	6M06L2
M9F0 1F 6P 3V	20	500	IP20	F	EXT	40	27	1.2	B	6M06N8

(1) = Speed controllable via Transformer

(2) = Speed controllable via TRIAC or Transformer

(3) = Speed controllable via Inverter

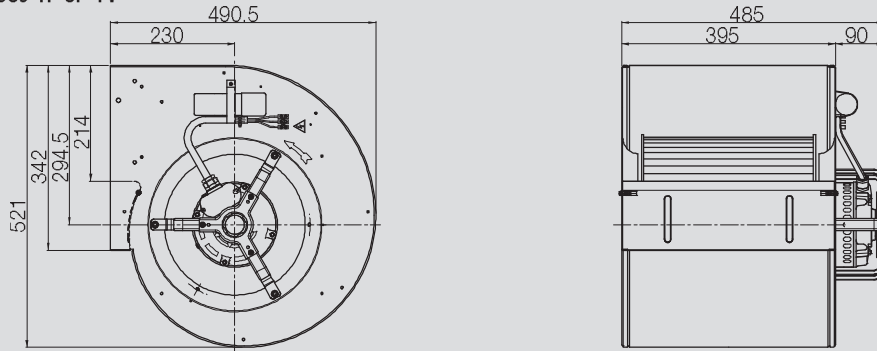
\* = No speed control available

[H] High speed, [ME] Medium speed, [LO] Low speed

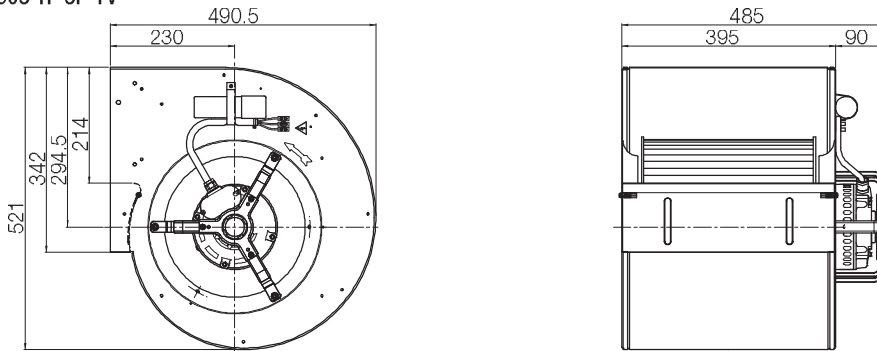
**Attention!** We suggest to do not use the fan in the grey marked area! The noise ratings given in the performance curves are sound power level  $L_{WA7}$ , see „Technical Description“.

## Dimensions in mm, subject to change.

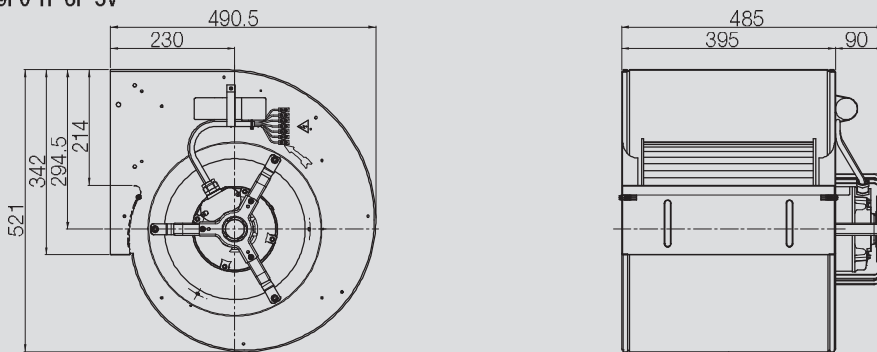
DD 12/12 M959 1F 6P 1V



DD 12/12 M906 1F 6P 1V

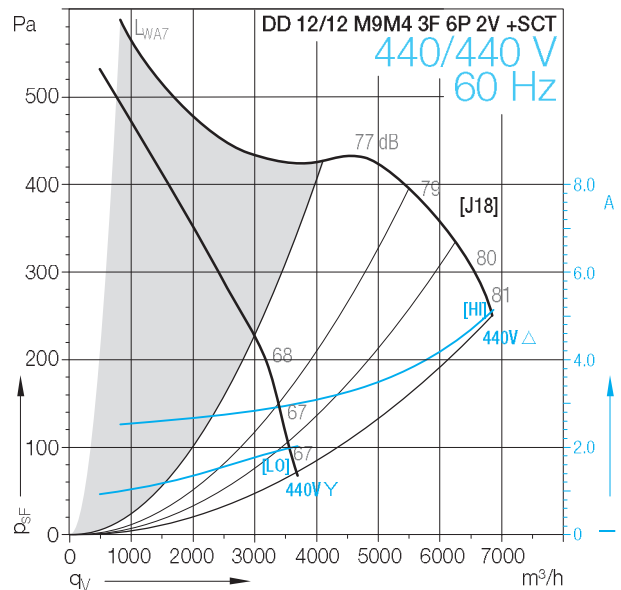
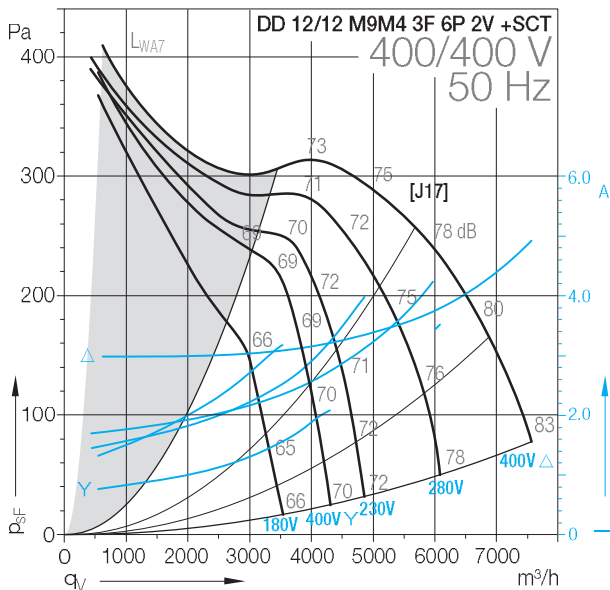
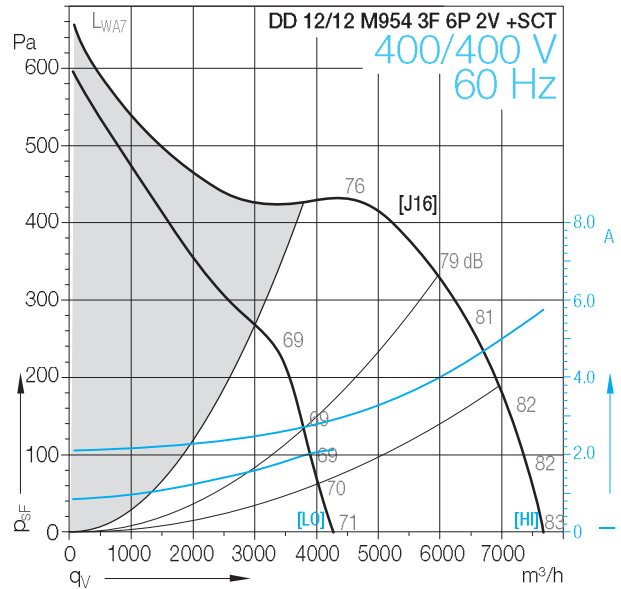
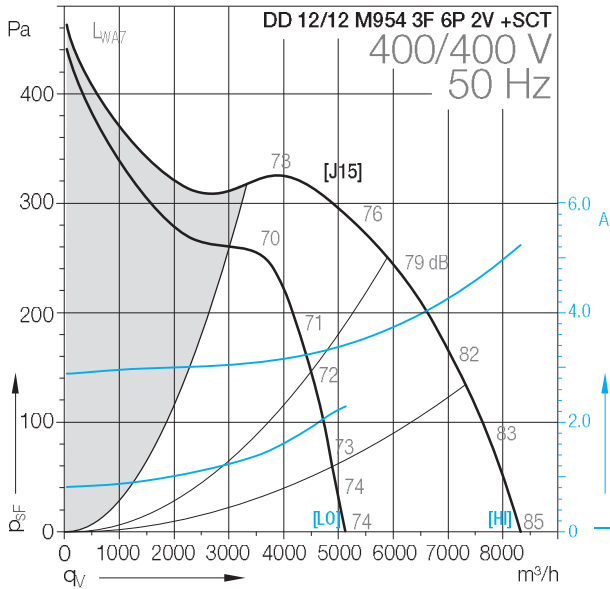
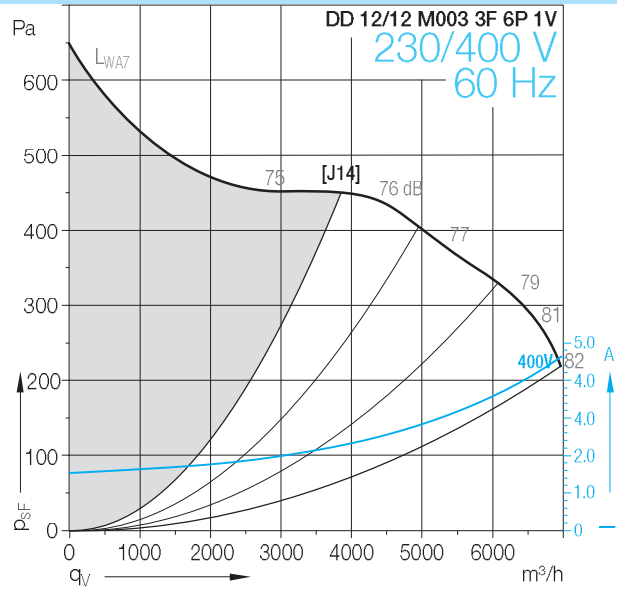
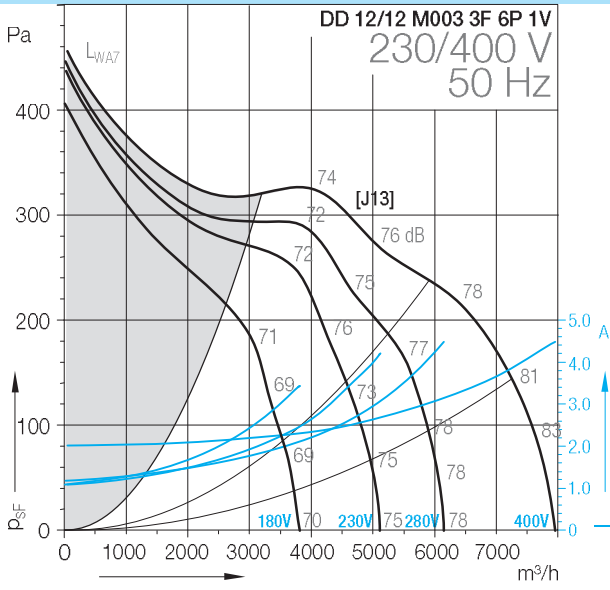


DD 12/12 M9F0 1F 6P 3V



# DD-12/12

## Technical Data



# DD-12/12

## Technical Data

	Speed control	Curves	Nominal motor power <b>W</b>	Poles –	Phases 3~	Connection $\Delta Y$	Mains frequency <b>Hz</b>	Max. power consumption <b>W</b>	Max. current consumption <b>A</b>	Speed <b>1/min</b>
DD 12/12										
M003 3F 6P 1V	(1)	[J13/J14]	1100	6	3~	$\Delta Y$	50/60	2455	4.3	900
M954 3F 6P 2V +SCT	(2)/(3)	[J15/J16]	1100	6	3~	$\Delta Y$	50/60	2513	4.9	920
M9M4 3F 6P 2V +SCT	(2)/(3)	[J17/J18]	1100	6	3~	$\Delta Y$	50/60	2300	4.6	920

## Technical Data

	Operating Capacitor	Nominal capacitor voltage	Motor protection class	Motor thermal class	Thermal protection	Media Temperature max. <b>°C</b>	Fan weight <b>kg</b>	Density of media <b>kg/m<sup>3</sup></b>	Installation type (ISO 5801)	Article number
DD 12/12										
M003 3F 6P 1V			IP20	B	NO	40	26	1.2	B	6M0320
M954 3F 6P 2V +SCT			IP20	F	EXT	40	28	1.2	B	61099Z
M9M4 3F 6P 2V +SCT			IP55	F	EXT	40	27	1.2	B	6109GK

(1) = Speed controllable via Transformer

(2) = Speed controllable via TRIAC or Transformer

(3) = Speed controllable via Inverter

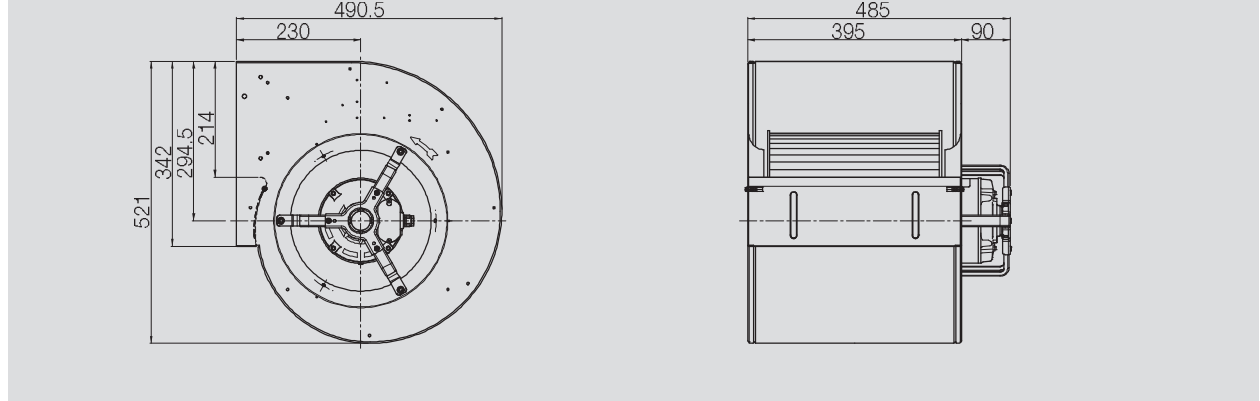
\* = No speed control available

[H] High speed, [M] Medium speed, [L] Low speed

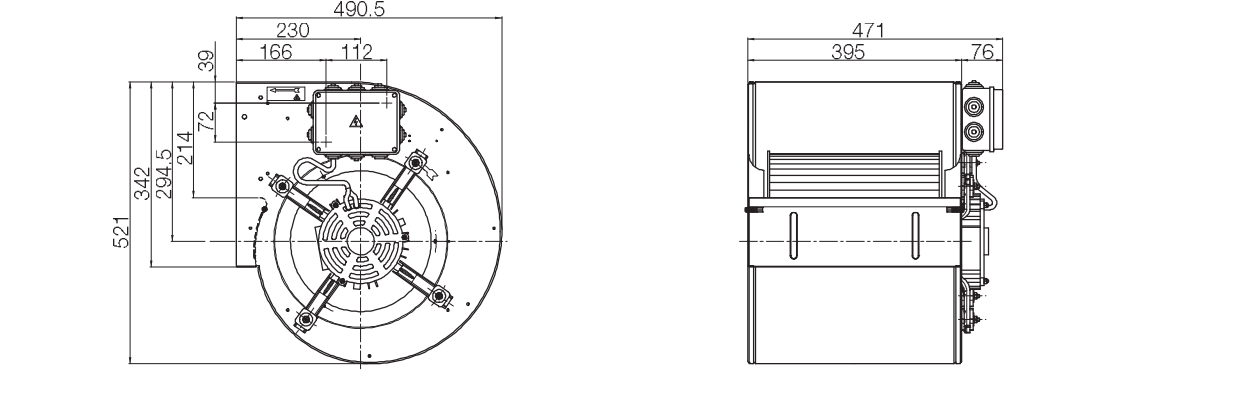
**Attention!** We suggest to do not use the fan in the grey marked area! The noise ratings given in the performance curves are sound power level  $L_{WA7}$ , see „Technical Description“.

## Dimensions in mm, subject to change.

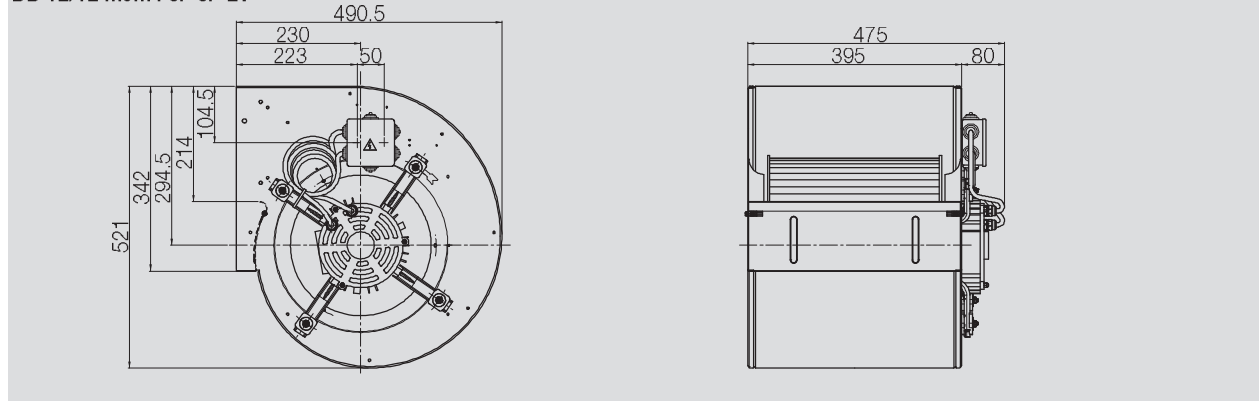
### DD 12/12 M003 3F 6P 1V



### DD 12/12 M954 3F 6P 2V

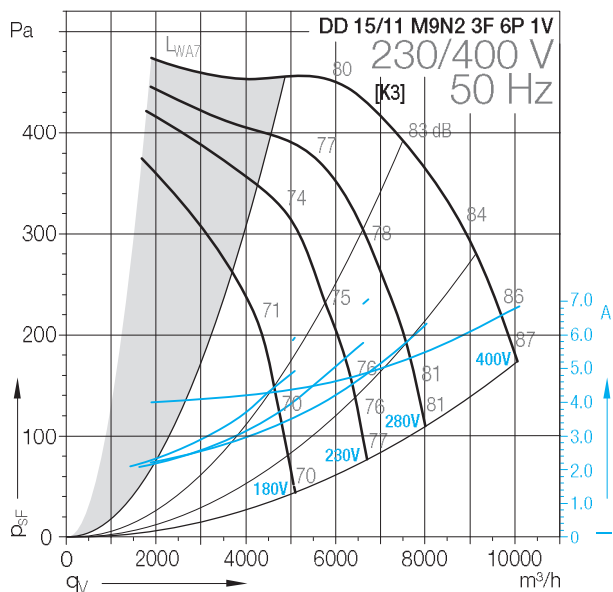
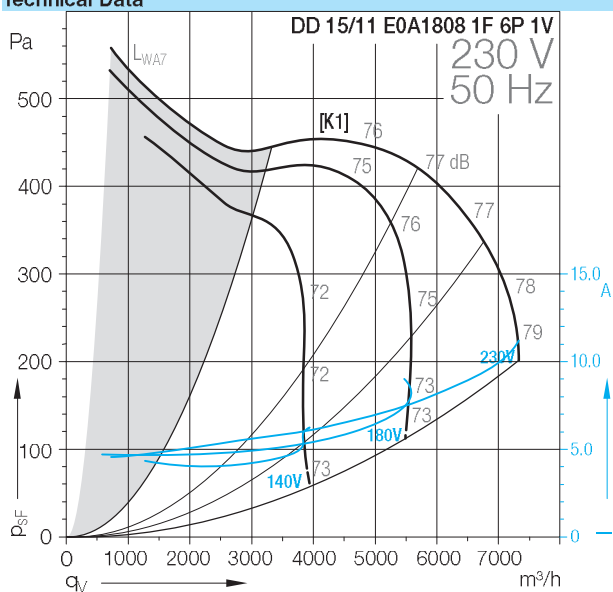


### DD 12/12 M9M4 3F 6P 2V



# DD-15/11

## Technical Data



# DD-15/11

Technical Data										
	Speed control	Curves	Nominal motor power	Poles	Phases	Connection	Mains frequency	Max. power consumption	Max. current consumption	Speed
			W	-			Hz	W	A	1/min
DD 15/11										
E0A1808 1F 6P 1V	(2)	[K1]	1350	6	1~		50	2525	10.8	900
M9N2 3F 6P 1V	(2)	[K3]	2200	6	3~	ΔY	50	3621	6.5	900

Technical Data										
	Operating Capacitor	Nominal capacitor voltage	Motor protection class	Motor thermal class	Thermal protection	Media Temperature max.	Fan weight	Density of media	Installation type (ISO 5801)	Article number
	μF	V				°C	kg	kg/m <sup>3</sup>		
DD 15/11										
E0A1808 1F 6P 1V	35	450	IP20	F	EXT	40	25	1.2	B	6109HC
M9N2 3F 6P 1V			IP20	F	EXT	40	25	1.2	B	6109GX

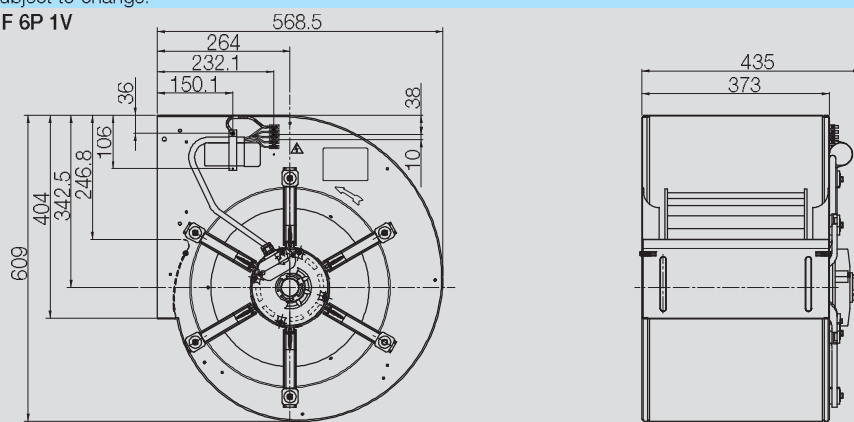
- (1) = Speed controllable via Transformer
- (2) = Speed controllable via TRIAC or Transformer
- (3) = Speed controllable via Inverter
- \* = No speed control available

[HI] High speed, [ME] Medium speed, [LO] Low speed

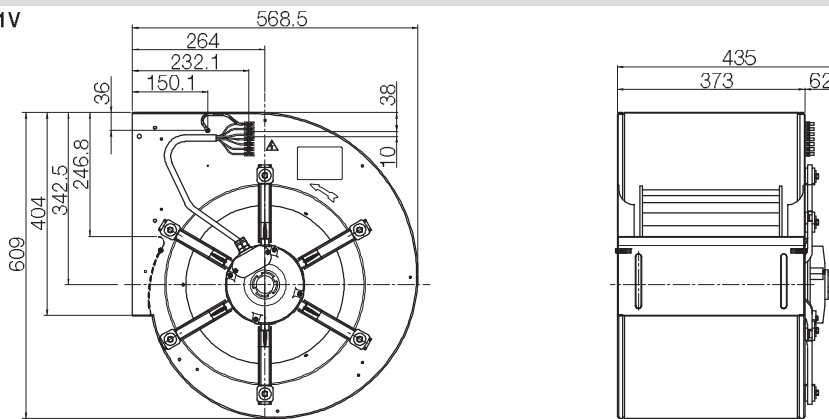
**Attention!** We suggest to do not use the fan in the grey marked area! The noise ratings given in the performance curves are sound power level L<sub>WA7</sub>, see „Technical Description“.

**Dimensions** in mm, subject to change.

DD 15/11 E0A1808 1F 6P 1V

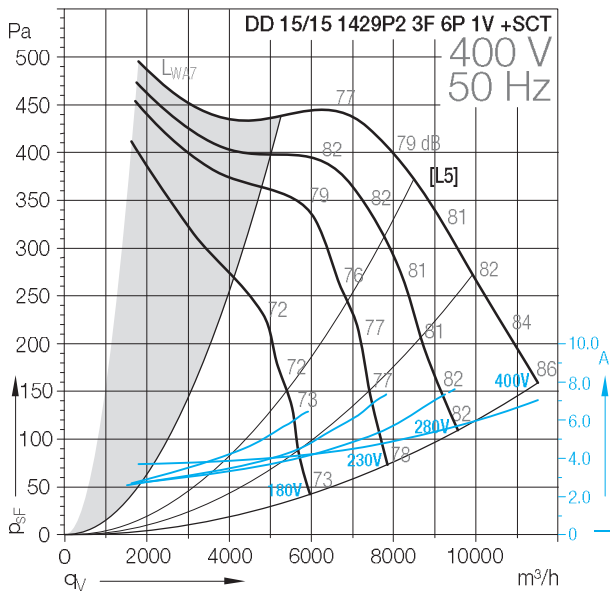
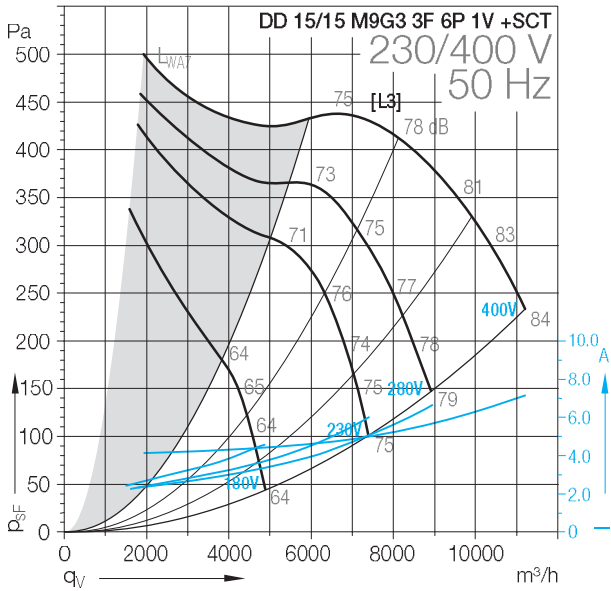
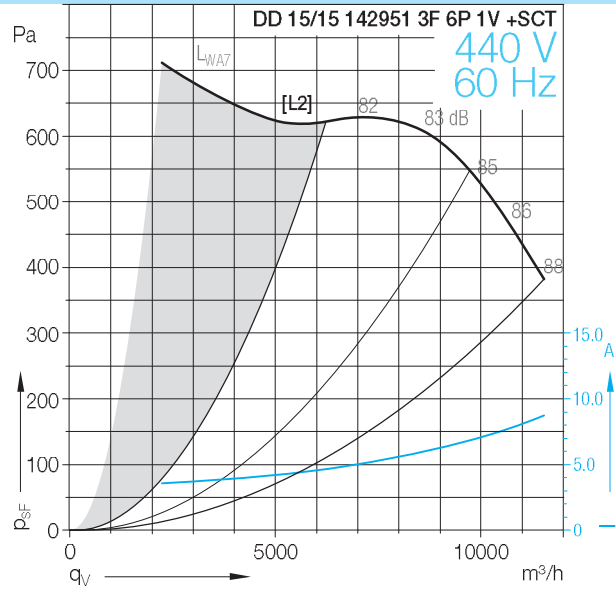
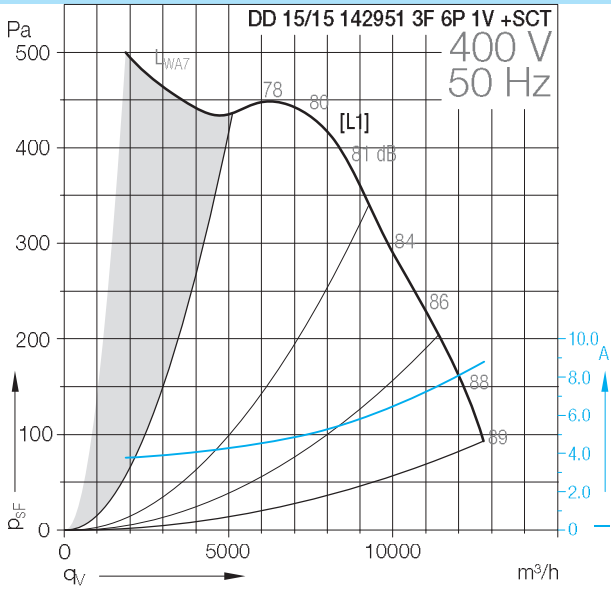


DD 15/11 M9N2 3F 6P 1V



# DD-15/15

## Technical Data



# DD-15/15

## Technical Data

	Speed control	Curves	Nominal motor power <b>W</b>	Poles <b>-</b>	Phases	Connection	Mains frequency <b>Hz</b>	Max. power consumption <b>W</b>	Max. current consumption <b>A</b>	Speed <b>1/min</b>
DD 15/15										
142951 3F 6P 1V +SCT	*	[L1/L2]	2200	6	3~	Y	50/60	4594	8.5	960
M9G3 3F 6P 1V +SCT	(1)	[L3]	2200	6	3~	$\Delta/Y$	50	3877	7	900
1429P2 3F 6P 1V +SCT	(2)	[L5]	2200	6	3~	Y	50	4140	6.8	910

## Technical Data

	Operating Capacitor	Nominal capacitor voltage	Motor protection class	Motor thermal class	Thermal protection	Media Temperature max. <b>°C</b>	Fan weight <b>kg</b>	Density of media <b>kg/m<sup>3</sup></b>	Installation type (ISO 5801)	Article number
DD 15/15										
142951 3F 6P 1V +SCT			IP55	F	NO	40	60	1.2	B	6109C8
M9G3 3F 6P 1V +SCT			IP20	F	NO	40	36	1.2	B	6109W2
1429P2 3F 6P 1V +SCT			IP55	F	EXT	40	51	1.2	B	6109GX

(1) = Speed controllable via Transformer

(2) = Speed controllable via TRIAC or Transformer

(3) = Speed controllable via Inverter

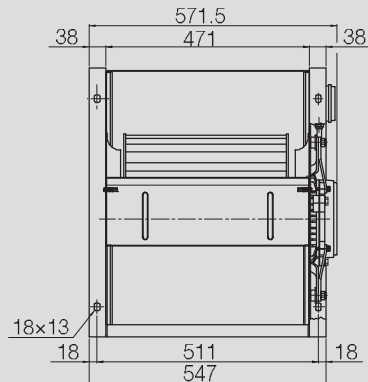
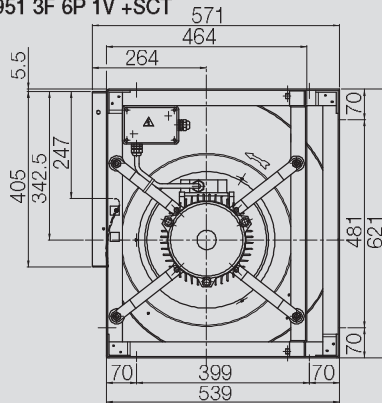
\* = No speed control available

[HI] High speed, [ME] Medium speed, [LO] Low speed

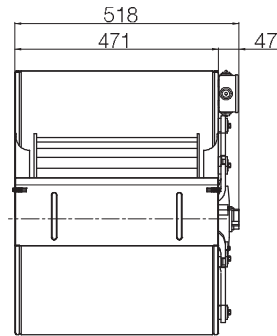
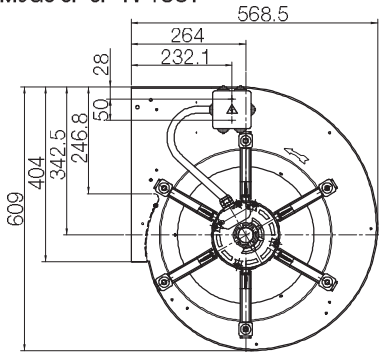
**Attention!** We suggest to do not use the fan in the grey marked area! The noise ratings given in the performance curves are sound power level  $L_{WA7}$ , see „Technical Description“.

## Dimensions in mm, subject to change.

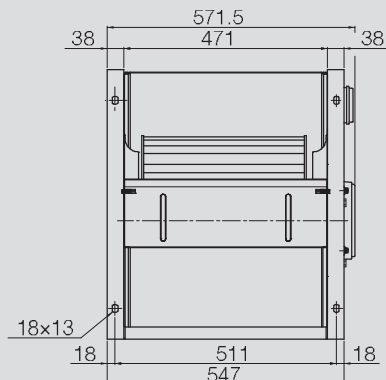
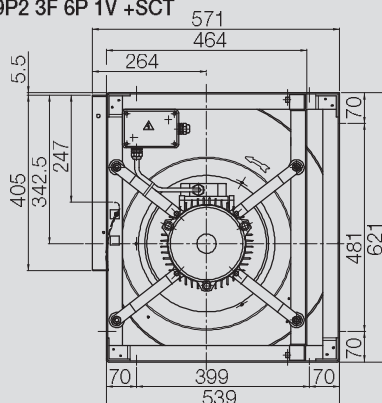
DD 15/15 142951 3F 6P 1V +SCT



DD 15/15 M9G3 3F 6P 1V +SCT

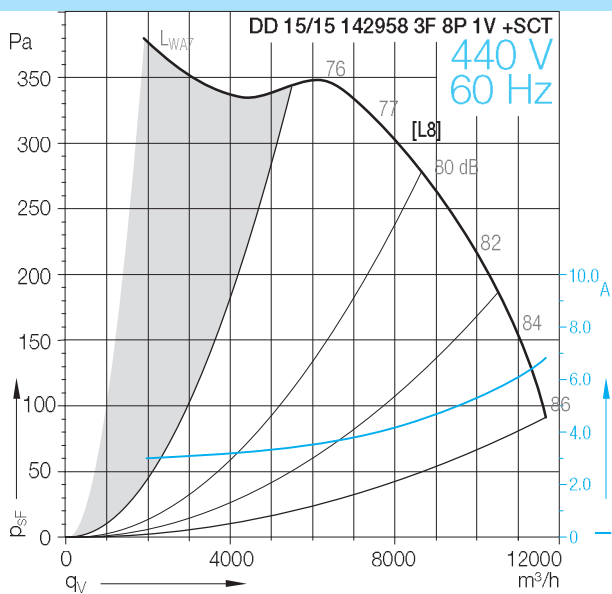
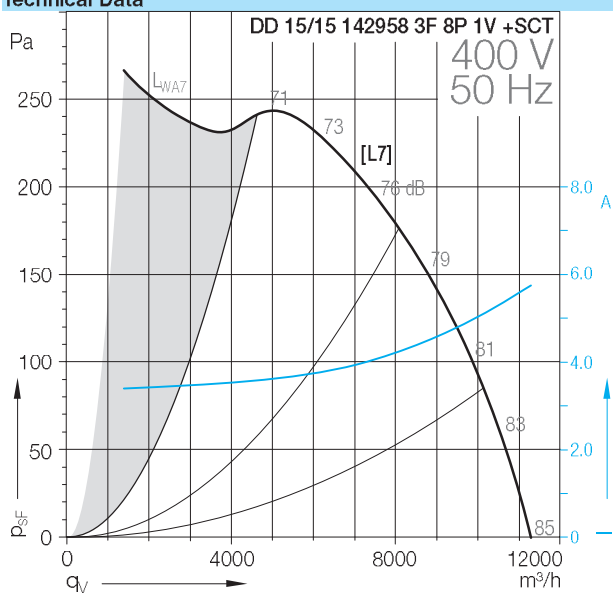


DD 15/15 1429P2 3F 6P 1V +SCT



# DD-15/15

## Technical Data





# DD-15/15

Technical Data										
	Speed control	Curves	Nominal motor power	Poles	Phases	Connection	Mains frequency	Max. power consumption	Max. current consumption	Speed
DD 15/15			<b>W</b>	-			<b>Hz</b>	<b>W</b>	<b>A</b>	<b>1/min</b>
142958 3F 8P 1V +SCT	*	[L7/L8]	1500	8	3~	Y	50/60	2865	5.4	715

Technical Data										
	Operating Capacitor	Nominal capacitor voltage	Motor protection class	Motor thermal class	Thermal protection	Media Temperature max.	Fan weight	Density of media	Installation type (ISO 5801)	Article number
DD 15/15						<b>°C</b>	<b>kg</b>	<b>kg/m<sup>3</sup></b>		
142958 3F 8P 1V +SCT			IP55	F	NO	40	78	1.2	B	6109F6

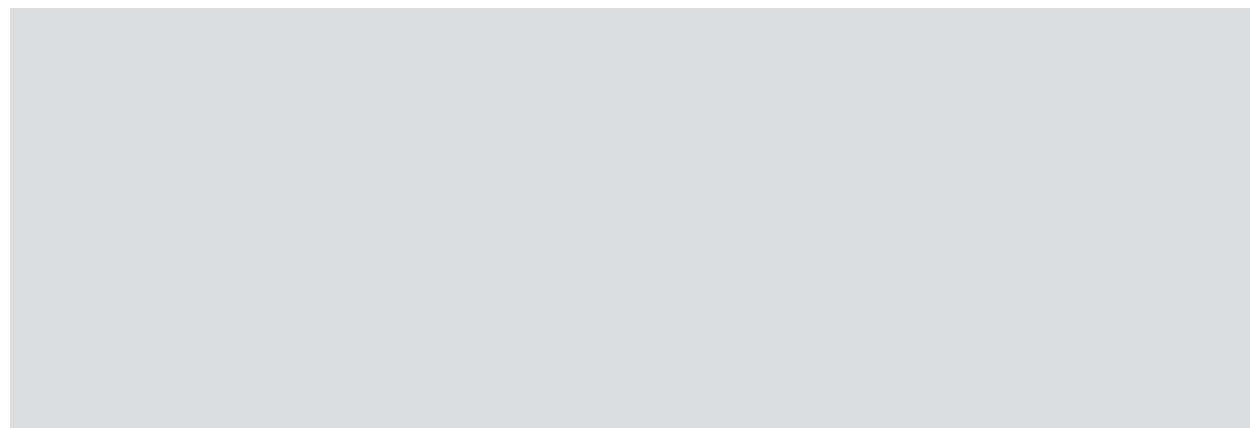
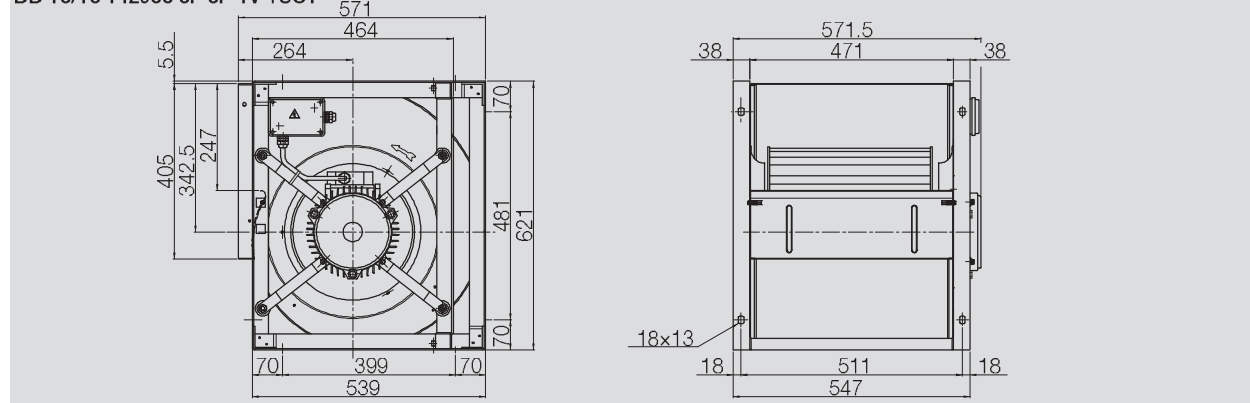
- (1) = Speed controllable via Transformer
- (2) = Speed controllable via TRIAC or Transformer
- (3) = Speed controllable via Inverter
- \* = No speed control available

[HI] High speed, [ME] Medium speed, [LO] Low speed

**Attention!** We suggest to do not use the fan in the grey marked area! The noise ratings given in the performance curves are sound power level  $L_{WA,7}$ , see „Technical Description“.

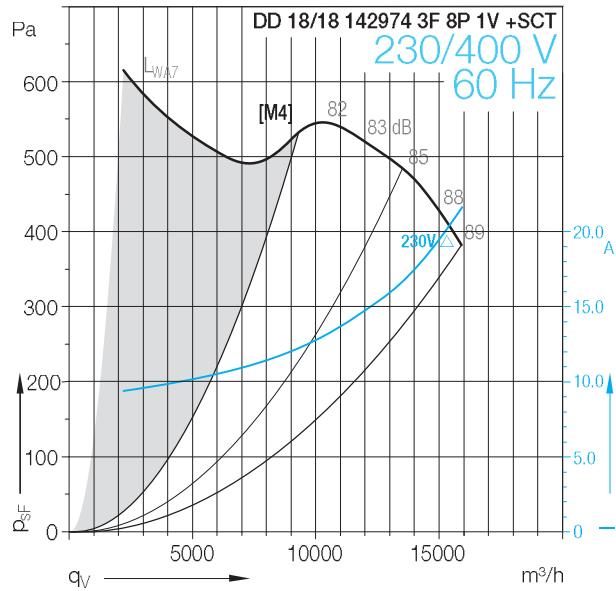
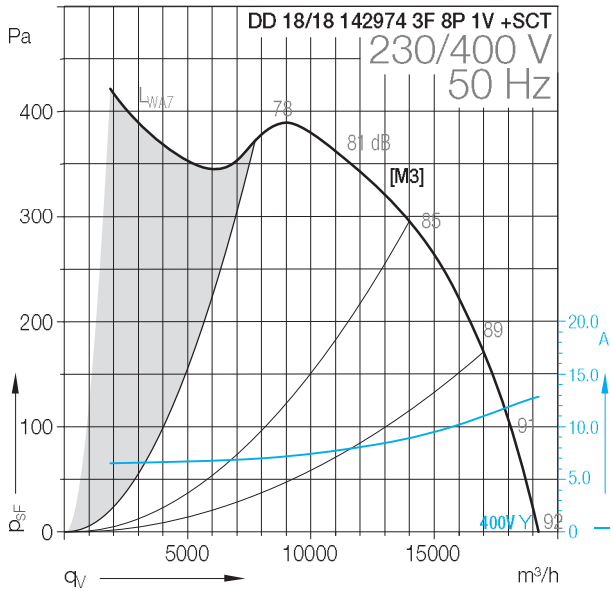
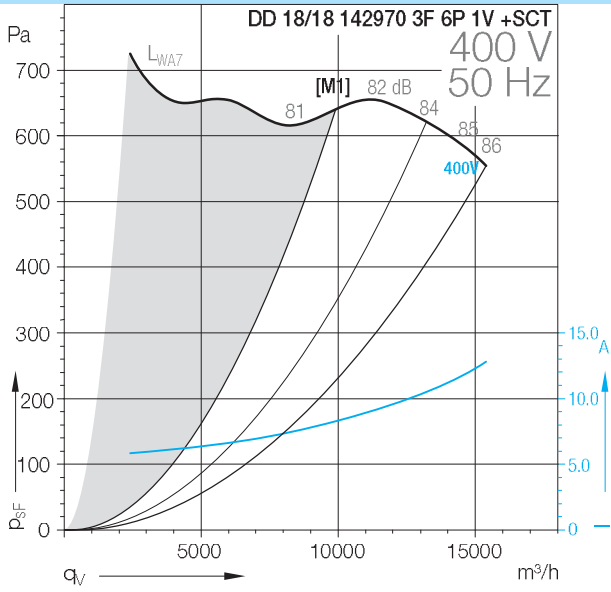
**Dimensions** in mm, subject to change.

**DD 15/15 142958 3F 8P 1V +SCT**



# DD-18/18

## Technical Data



# DD-18/18

## Technical Data

	Speed control	Curves	Nominal motor power <b>W</b>	Poles	Phases	Connection	Mains frequency <b>Hz</b>	Max. power consumption <b>W</b>	Max. current consumption <b>A</b>	Speed <b>1/min</b>
DD 18/18				–						
142970 3F 6P 1V +SCT	*	[M1]	4000	6	3~	ΔY	50	7084	12	965
142974 3F 8P 1V +SCT	*	[M3/M4]	3000	8	3~	ΔY	50/60	6929	12.4	700

## Technical Data

	Operating Capacitor	Nominal capacitor voltage	Motor protection class	Motor thermal class	Thermal protection	Media Temperature max. °C	Fan weight <b>kg</b>	Density of media <b>kg/m³</b>	Installation type (ISO 5801)	Article number
DD 18/18										
142970 3F 6P 1V +SCT			IP55	F	NO	40	48	1.2	B	6109L1
142974 3F 8P 1V +SCT			IP55	F	NO	40	98	1.2	B	6109N4

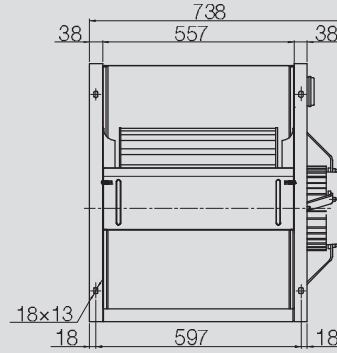
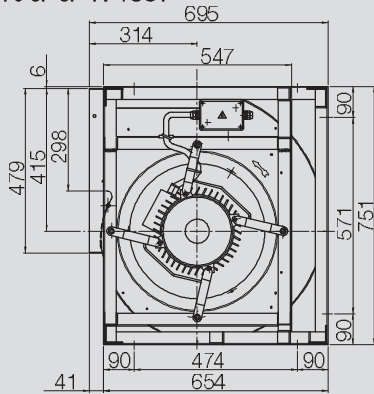
- (1) = Speed controllable via Transformer
- (2) = Speed controllable via TRIAC or Transformer
- (3) = Speed controllable via Inverter
- \* = No speed control available

[HI] High speed, [ME] Medium speed, [LO] Low speed

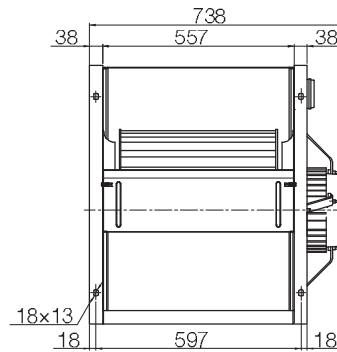
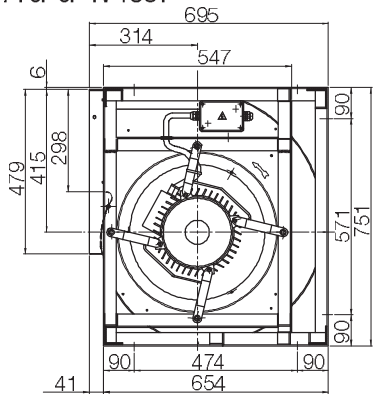
**Attention!** We suggest to do not use the fan in the grey marked area! The noise ratings given in the performance curves are sound power level  $L_{WA7}$ , see „Technical Description“.

## Dimensions in mm, subject to change.

### DD 18/18 142970 3F 6P 1V +SCT



### DD 18/18 142974 3F 8P 1V +SCT



# DD

## Specifications



### High performance centrifugal fan DD

Double width, double inlet (DWDI), direct driven forward curved blades fan. Lap-jointed scroll of galvanized steel (EN10142) assembled through a high technology roller-lock seaming (sizes  $\geq 7$  inches), spot-welded scroll of galvanized steel (sizes  $< 7$  inches).

Straight cut off plate at fan outlet.

Impeller with forward curved blades of galvanized steel, directly mounted on an "Internal Rotor" motor for optimal motor cooling and no transmission losses.

Open (IP20) **or** closed (IP32/IP44/IP55) motor frame:

Motors may be single- **or** three-phase; single- **or** multi speed, speed-adjustable by voltage regulation through transformers **or** TRIAC regulators. Motors suitable for use at 50Hz **or** 60Hz are available.

Built-in thermal protection devices either in series or wired out is standard fit.

Maintenance free self-aligning ball bearings, vibration isolation pads.

Impeller dynamically balanced according to ISO 1940.

Different fan options and accessories, motor types and sizes available - see technical data.

## Fan data

Fan type		.....	
Volume flow	$q_v$		m <sup>3</sup> /h
Static pressure	$p_{sF}$		Pa
Air density at fan inlet	$\rho_1$		kg/m <sup>3</sup>
Air temperature	t		°C
Max. power consumption	$P_e$		kW
Speed	N		1/min
Frequency	f		Hz
Sound power level (A weighted)	$L_{WA}$		dB
Weight	m		kg

## Fittings / Accessories

- Outlet flange - O
- Outlet flexible connection - A (sizes  $\geq 7/7$ )
- Mounting feet - O/A (sizes  $\geq 7/7$ )
- Terminal box - O
- Inlet guard - O/A
- Outlet guard - O/A
- Powder-coating - O
- TRIAC electronic regulators - A

### Legend

O = Options

A = Accessory

O/A = The item could be delivered as an option or an accessory

Please, check availability of each individual option or accessory on each specific fan model.

# Fittings / Accessories

## Accessories

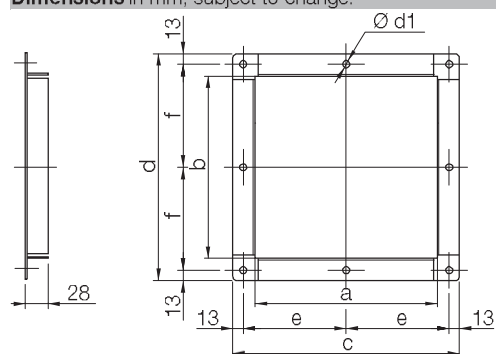
All options and accessories must be specified separately. Please take the technical data and dimensions from the corresponding page of the catalogue.

## Flanges



Made from galvanized or painted steel, to connect ducts and system components to the fan outlet side.

Dimensions in mm, subject to change.

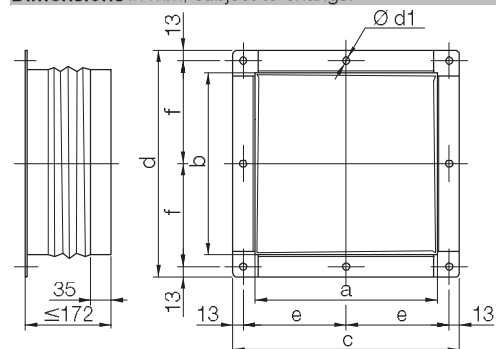


DD	a	b	c	d	e	f	Ø d1
7/7	232	201	288	257	131	115.5	9
9/7	232	255	288	311	131	142.5	9
9/9	298	255	354	311	164	142.5	9
10/8	265	284	321	340	147.5	157	9
10/10	331	284	387	340	180.5	157	9
12/9	309	334	365	390	169.5	182	9
12/12	395	334	451	390	212.5	182	9
15/11	373	397	429	453	201.5	213.5	9
15/15	471	397	527	453	250.5	213.5	9
18/18	557	471	613	527	293.5	250.5	9

## Flexible connection

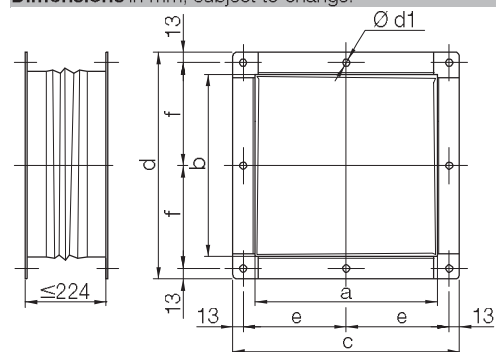
Flexible connection to connect the fan to system components or units, absorbing and stopping the vibration transmission.

Dimensions in mm, subject to change.



DD	a	b	c	d	e	f	Ø d1
7/7	232	201	288	257	131	115.5	9
9/7	232	255	288	311	131	142.5	9
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Dimensions in mm, subject to change.



DD	a	b	c	d	e	f	Ø d1
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