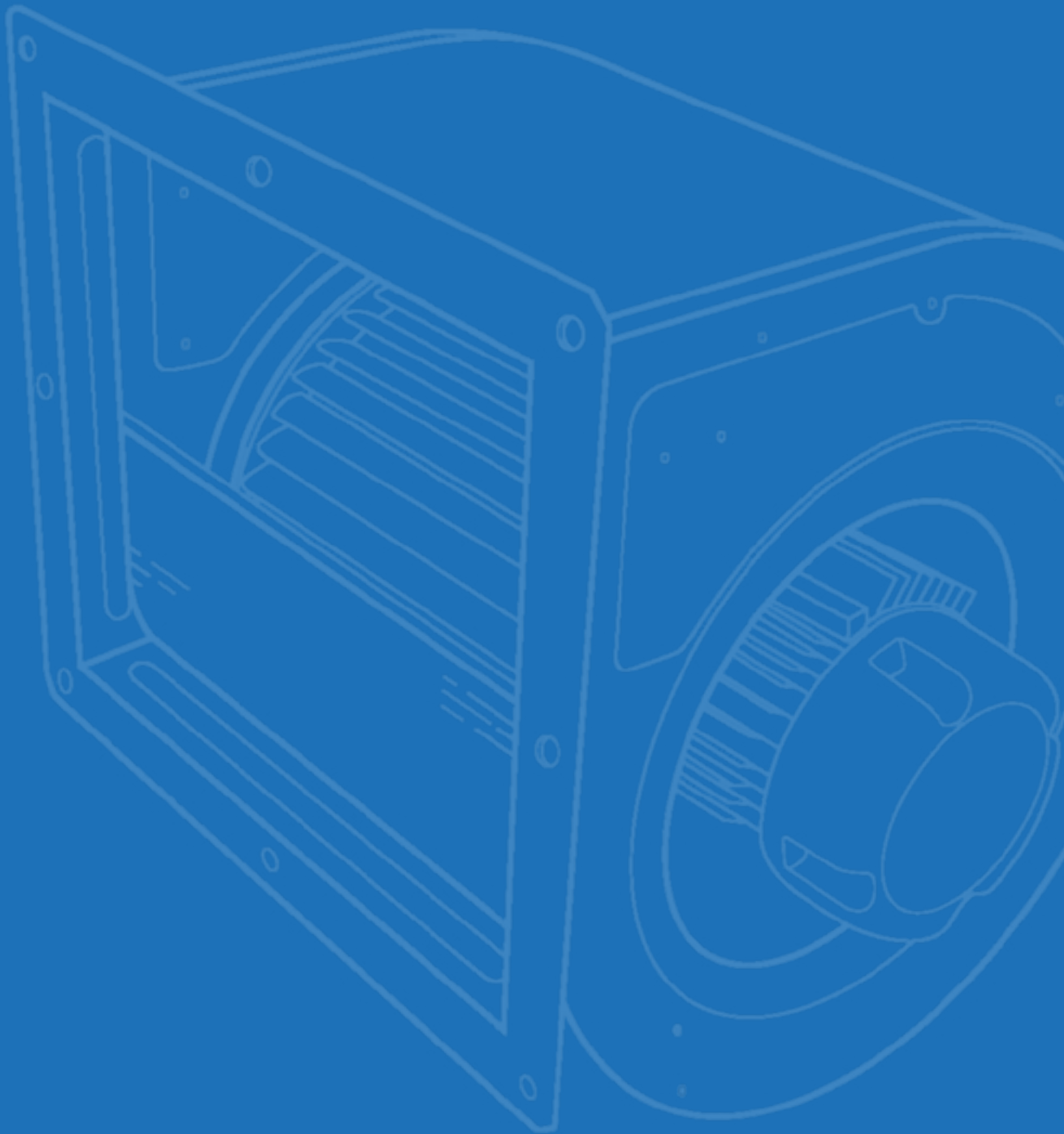


# Low Pressure Centrifugal Fans

## Inch Blowers AC & EC

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*A high quality range of forward curved centrifugal fans suitable for a wide range of low pressure industrial air movement applications.*



# Fan Integration Experts

Axair are an independent UK distributor of industrial fans for OEM, commercial and industrial applications. Our team of technical engineers are experts in their field so your enquiry will always be handled by an experienced person who understands your application.



**Our understanding of almost every ventilation system's requirements, enables us to select the most suitable industrial fan for any project."**

Over the last 30 years, Axair has built up its reputation of supplying the widest range of fans available from a single source.

As fan integration experts, our most valued quality lies in our understanding of almost every ventilation system's requirements, enabling us to select the most suitable industrial fan for any project.

Our in-house team of technical experts are available to answer any air movement question you have.

Contact our team on [sales@axair-fans.co.uk](mailto:sales@axair-fans.co.uk) to discuss your project in depth. We'll advise on possible fan integration options.



# Inch Blowers: BD Fans

Commonly used within low pressure applications including air conditioning units, air curtains, heating and cooling coils, air handling units, and ventilated workbenches, inch blowers combine versatility and value perfectly.

## AC Range

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BD-7/7-M4-0.13kW



BD-7/7-M6-0.04kW



BD-9/7-M4-0.35kW



BD-9/7-M6-0.13kW



BD-9/9-M4-0.35kW



BD-9/9-M6-0.13kW



BD-10/8-M4-0.59kW



BD-10/8-M6-0.21kW



BD-10/10-M4-0.59kW



BD-10/10-M6-0.21kW



BD-12/9-M6-0.76kW



BD-12/9-T6-1.1kW



BD-12/12-M6-0.76kW



BD-12/12-T6-1.1kW





## Inch Blowers (BD Fans)



### Features

- Galvanised steel sheet housing
- Double inlet forward curved impellers
- Turbine fibre reinforced glass sizes 7-7, 9-9, 10/10 and 12/12. (other models in galvanised steel)
- Supplied with mounting feet
- Exclusive system from Axair's supply partner Casals fixing motor and turbine fan with flexible arms silent blocks to avoid any vibration
- Arms in compliance with ROHS regulations 2002/95/EC (Restriction of Hazardous Substances in electrical and electronic equipment)
- Closed motors specially designed: extruded aluminium housing, all protected inside the terminal box, built-in motor with IP65 connections
- Motor with IP55 protection and Class F insulation standard voltages: 230V 50Hz in single phase and 230V/400V 50Hz three phase
- Single phase voltage controllable, adjustable three phase models suitable for an inverter
- Maximum working temperature: 50°C



### Accessories

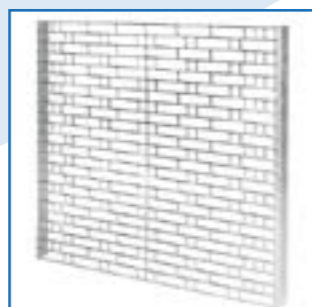
Complementary accessories are available on request. For further information or for support with your fan selection, speak to one of our technical engineers.



Inlet Guards



Outlet Flanges

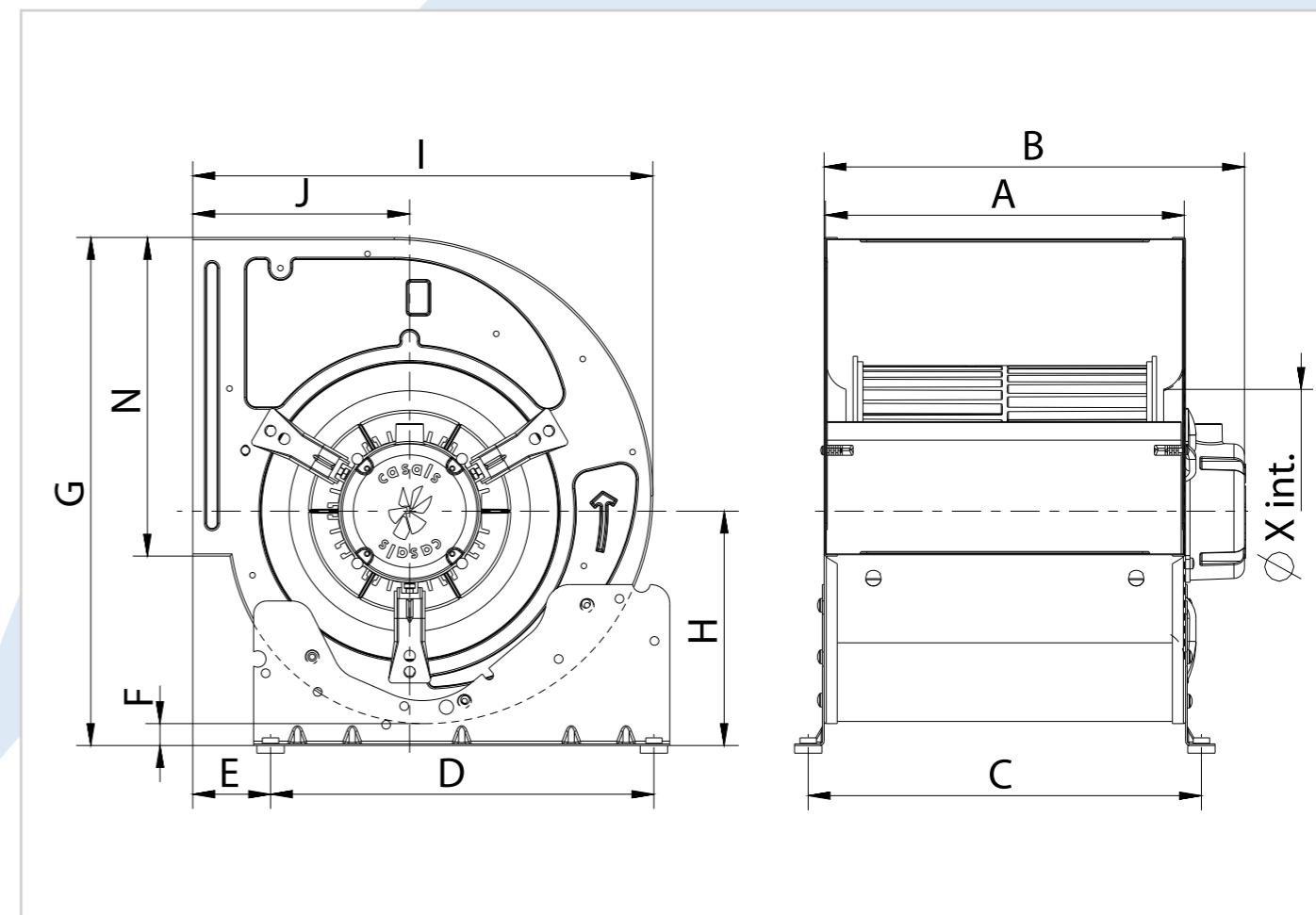


Discharge Guards



Speed Controllers

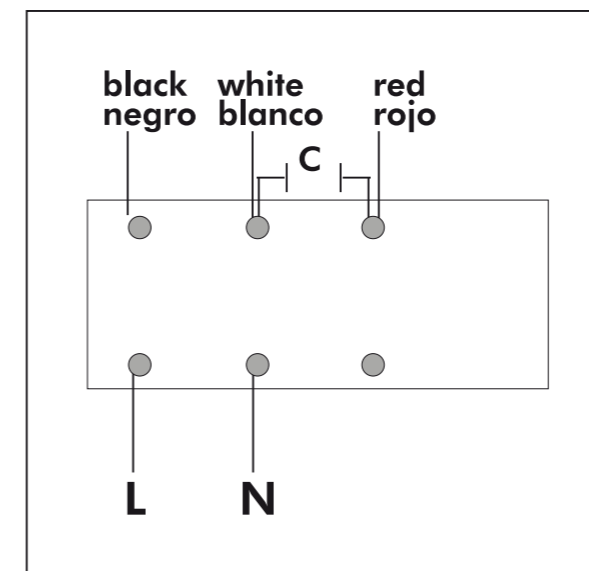
## BD 7/7 M4 0,13kW Dimensions



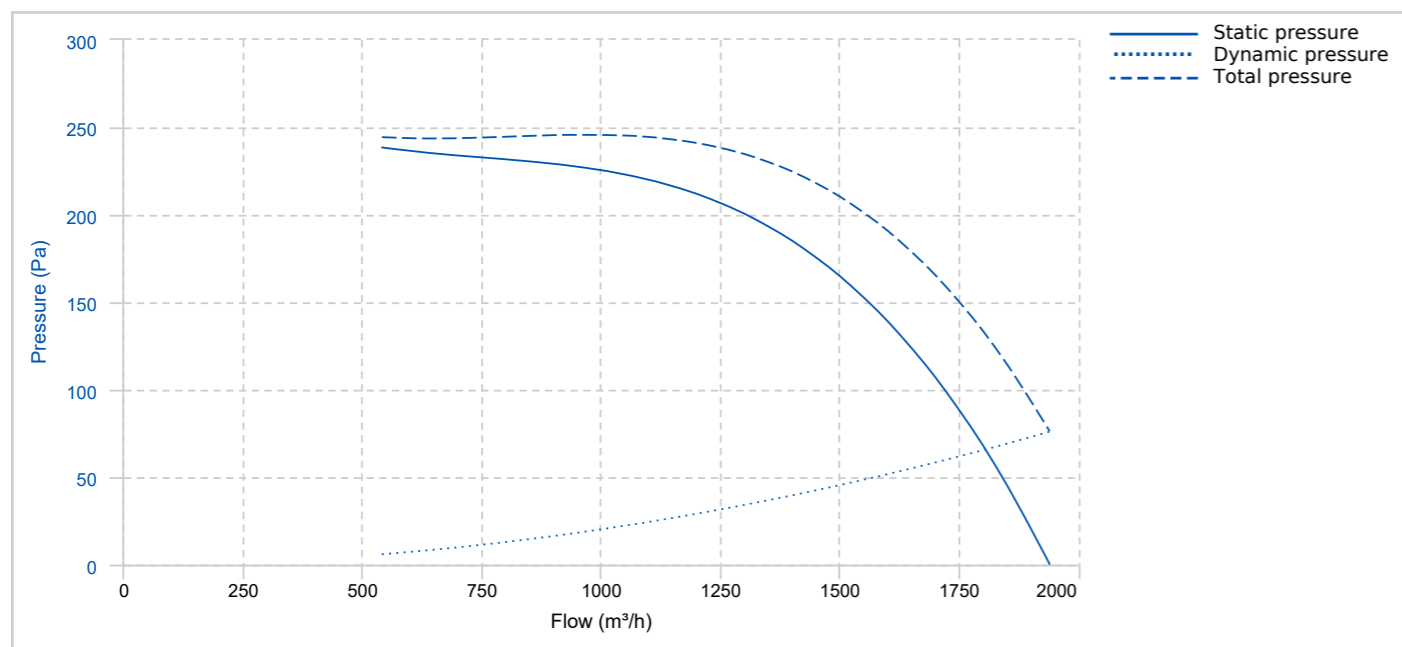
### Dimensions

A	B	C	D	E	F	G	H	I	J	N	X
230	302	259	245	48.5	9.5	337	150	316	153	208	158

### Wiring Diagram



## BD 7/7 M4 0,13kW Performance Curve



### Technical Data: Fan

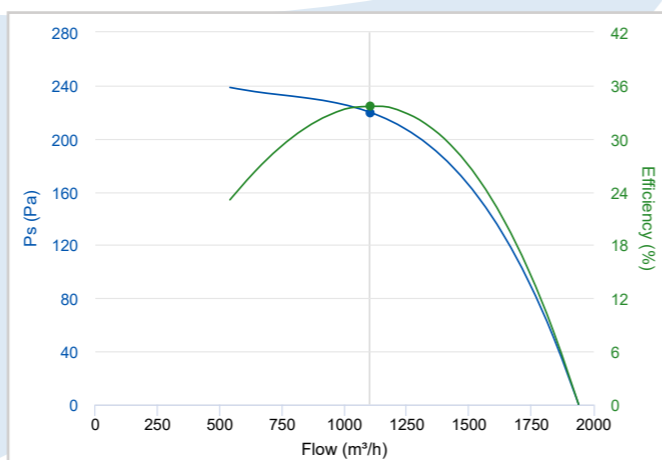
RPM	Approx Weight	Max Flow
1370	9kg	1940m³/h

### Technical Data: Motor

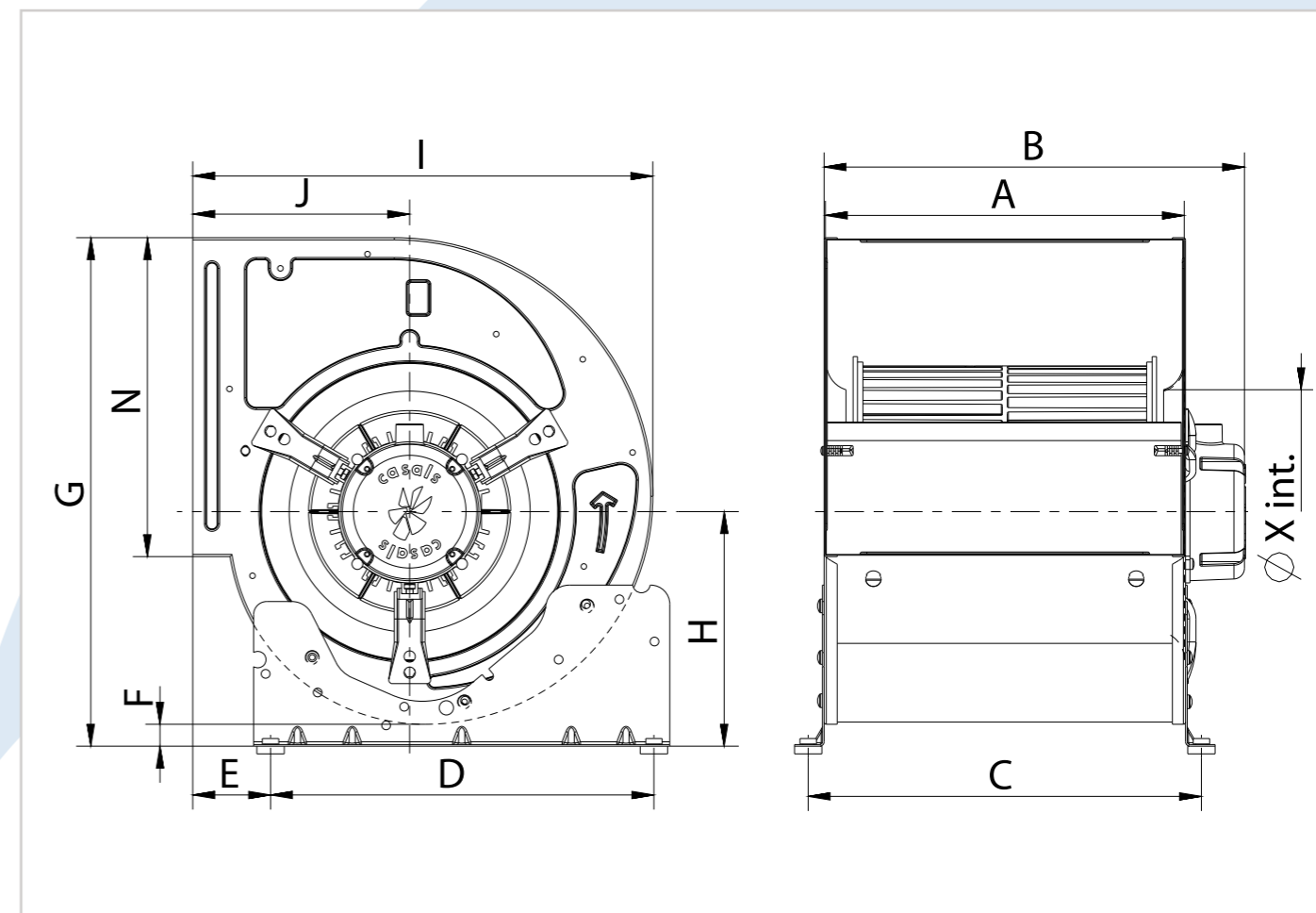
Power	RPM	Capacitor	I Max (230V)	Size	Approx Weight	Efficiency (%)	FP
0.13kW	1370	8µF 400V	1.55A	STC63	4.1kg	60%	0.96

### ERP Data

Fan Datasheet		
Fan Type	Centrifugal fan radial or forward blades	
Installation Category	A: Outlet and Inlet Free Discharge	
Efficiency Category	Static	
The Fan has to be installed with VF	No	
Motor Power (kW)	0.13	
	Fan Values	ERP Requirements 2015
Max. Efficiency (%)	33.7	33.26
Efficiency Grade (N)	44.44	44
Pabs (kW)	0.2	
Flow (m³/h)	1104.78	
Static Pressure (Pa)	219.73	
Speed (m/s)	1370	
Specific Ratio	1.00	



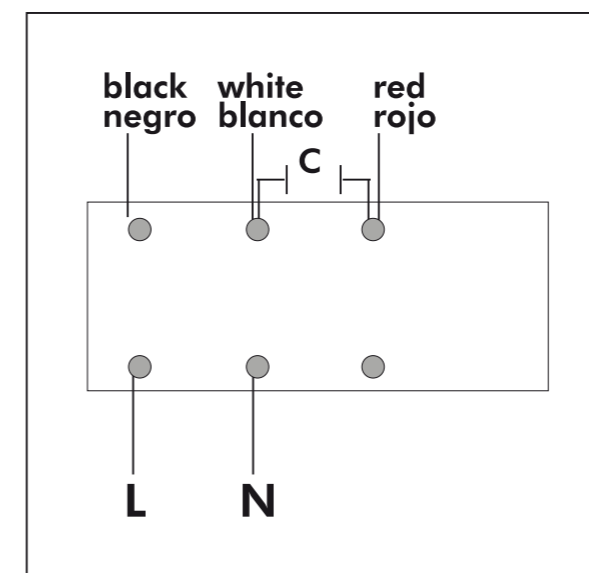
## BD 7/7 M6 0,04kW Dimensions



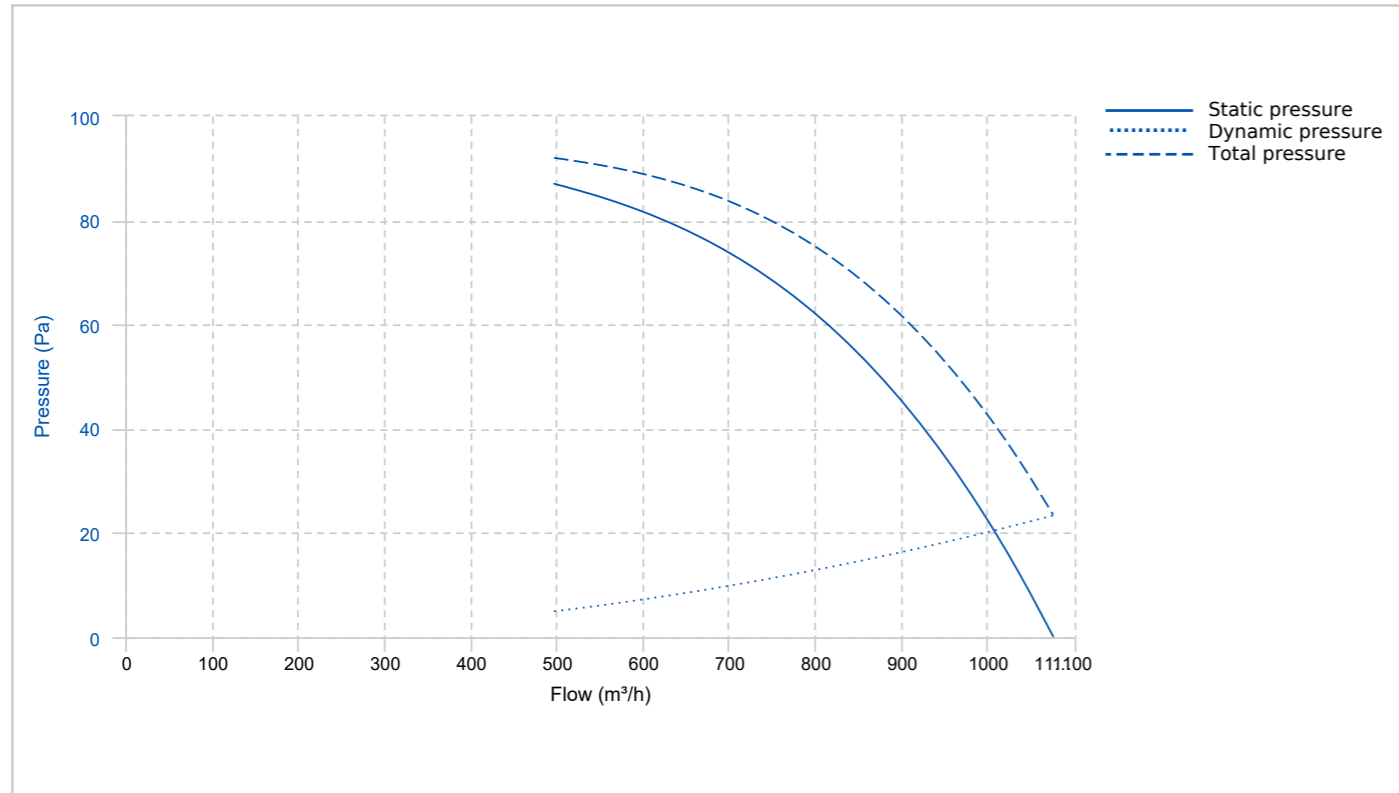
### Dimensions

A	B	C	D	E	F	G	H	I	J	N	X
230	277	259	245	48.5	9.5	337	150	316	153	208	158

### Wiring Diagram



### BD 7/7 M6 0,04kW Performance Curve



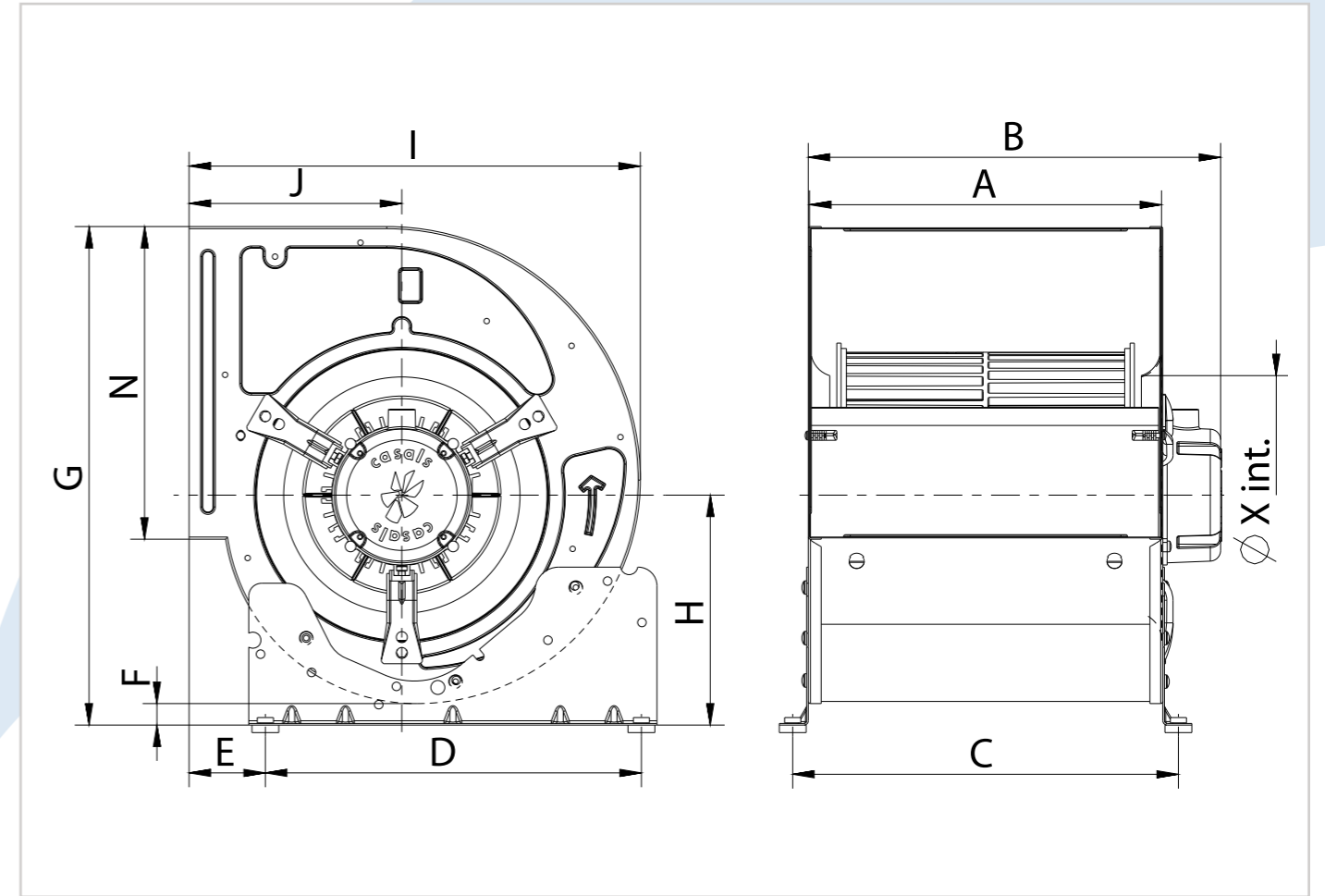
### Technical Data: Fan

RPM	Approx Weight	Max Flow
885	9kg	1080m³/h

### Technical Data: Motor

Power	RPM	Capacitor	I Max (230V)	Size	Approx Weight	Efficiency (%)	FP
0.04kW	885	3µF 400V	0.6A	STC63	2.2kg	40.79999999999999%	0.98

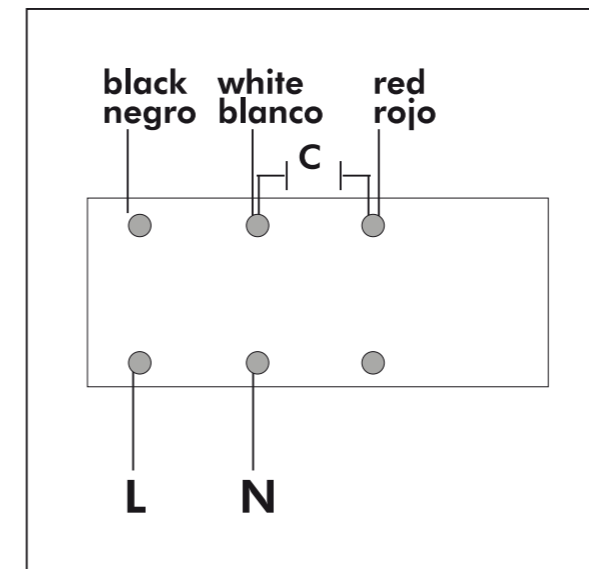
### BD-9/7-M4-0.35kW Dimensions



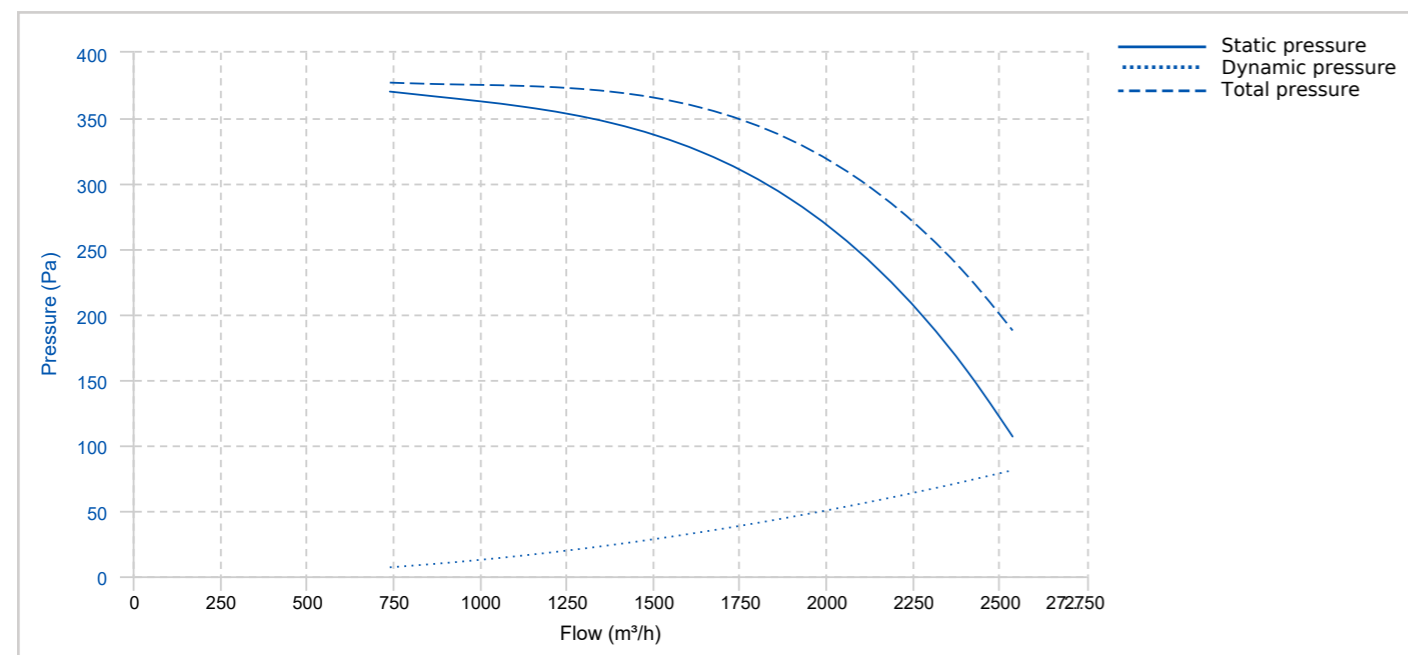
### Dimensions

A	B	C	D	E	F	G	H	I	J	N	X
233	287	262	245	70	19	407	191	376	184	260	202

### Wiring Diagram



## BD-9/7-M4-0.35kW Performance Curve



### Technical Data: Fan

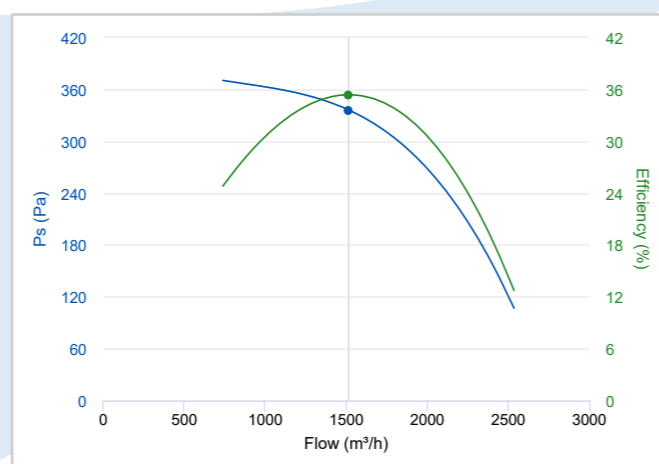
RPM	Approx Weight	Max Flow
1375	15kg	2540m³/h

### Technical Data: Motor

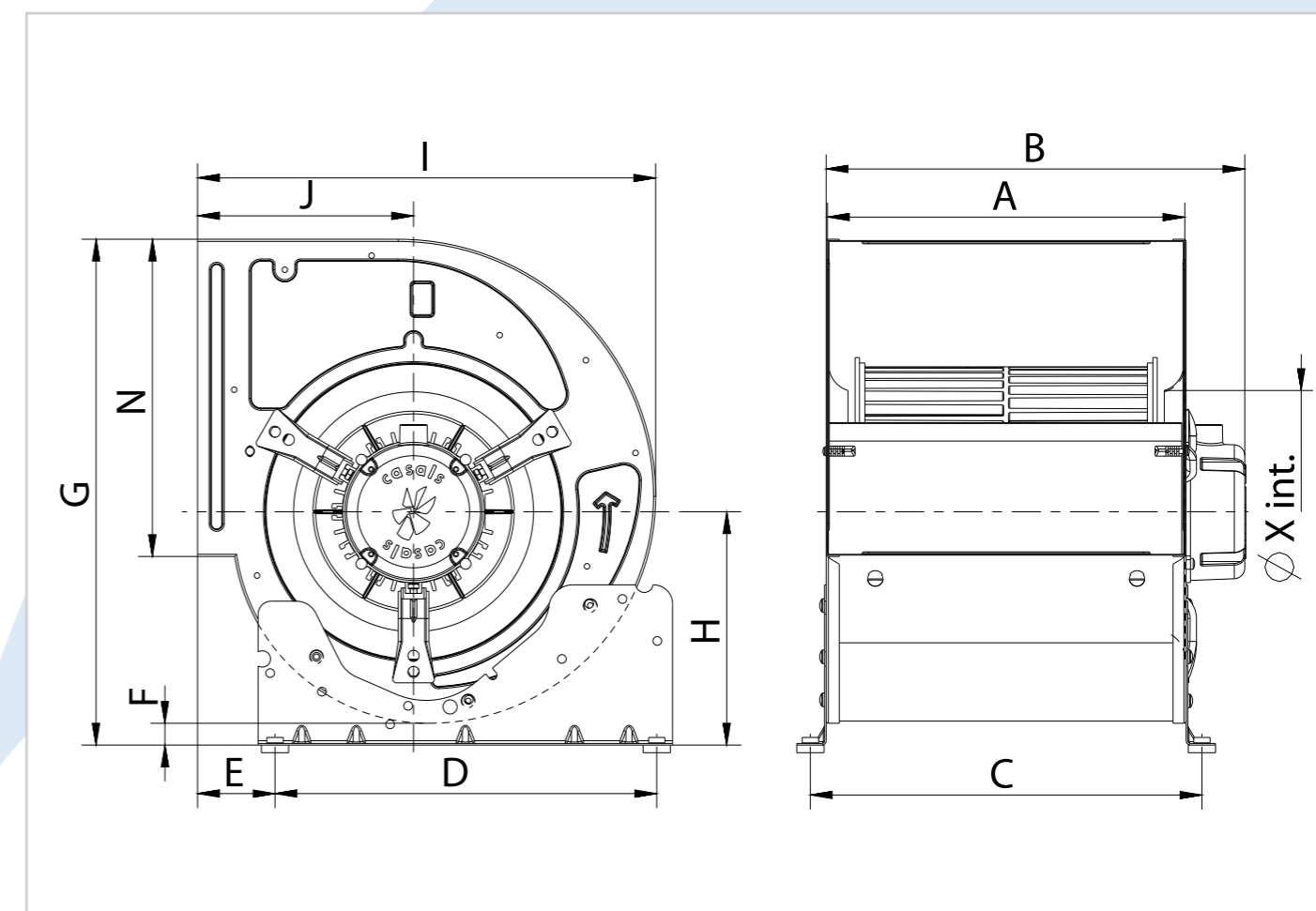
Power	RPM	Capacitor	I Max (230V)	Size	Approx Weight	Efficiency (%)	FP
0.35kW	1375	18µF 400V	2.7A	STC80	6.4kg	71.8%	0.98

### ERP Data

Fan Datasheet		
Fan Type	Centrifugal fan radial or forward blades	
Installation Category	A: Outlet and Inlet Free Discharge	
Efficiency Category	Static	
The Fan has to be installed with VF	No	
Motor Power (kW)	0.35	
	Fan Values	ERP Requirements 2015
Max. Efficiency (%)	35.36	35.2
Efficiency Grade (N)	44.16	44
Pabs (kW)	0.406	
Flow (m³/h)	1515.85	
Static Pressure (Pa)	336.02	
Speed (m/s)	1375	
Specific Ratio	1.00	



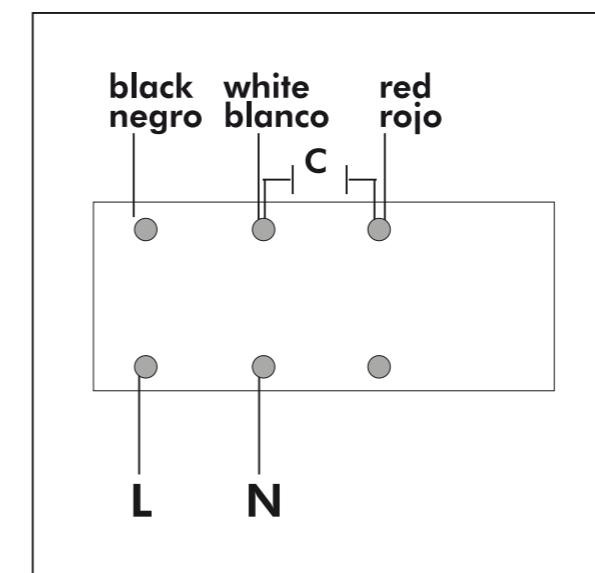
## BD-9/7-M6-0.13kW Dimensions



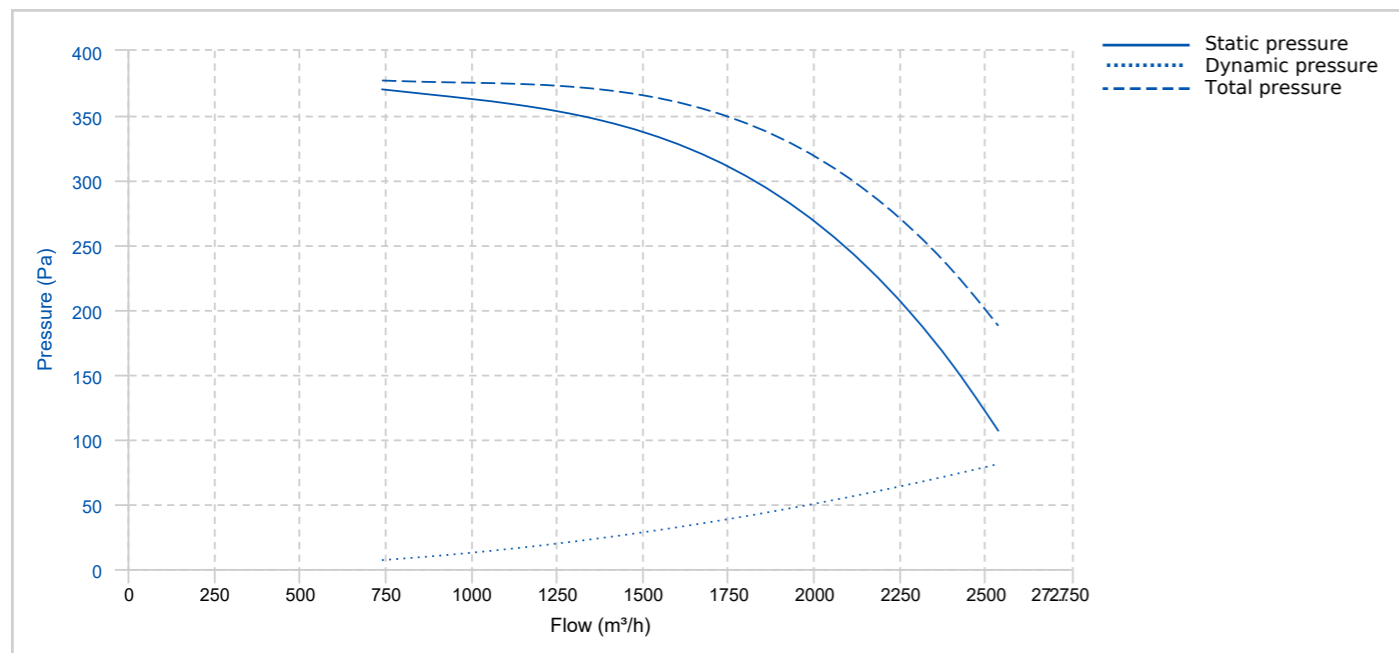
### Dimensions

A	B	C	D	E	F	G	H	I	J	N	X
233	284	262	245	70	19	407	191	376	184	260	202

### Wiring Diagram



## BD-9/7-M6-0.13kW Performance Curve



### Technical Data: Fan

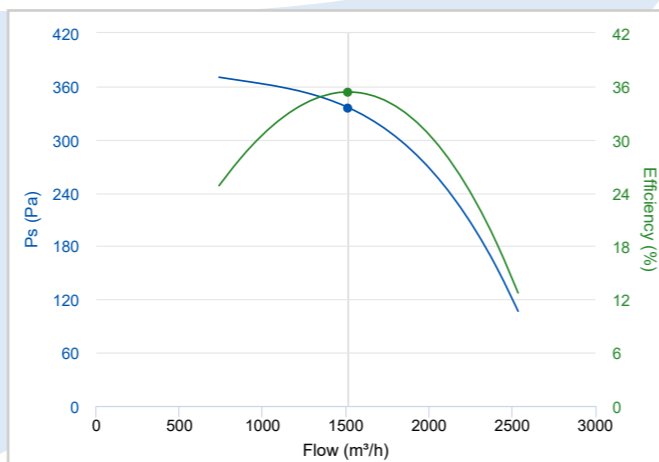
RPM	Approx Weight	Max Flow
940	14kg	2060m³/h

### Technical Data: Motor

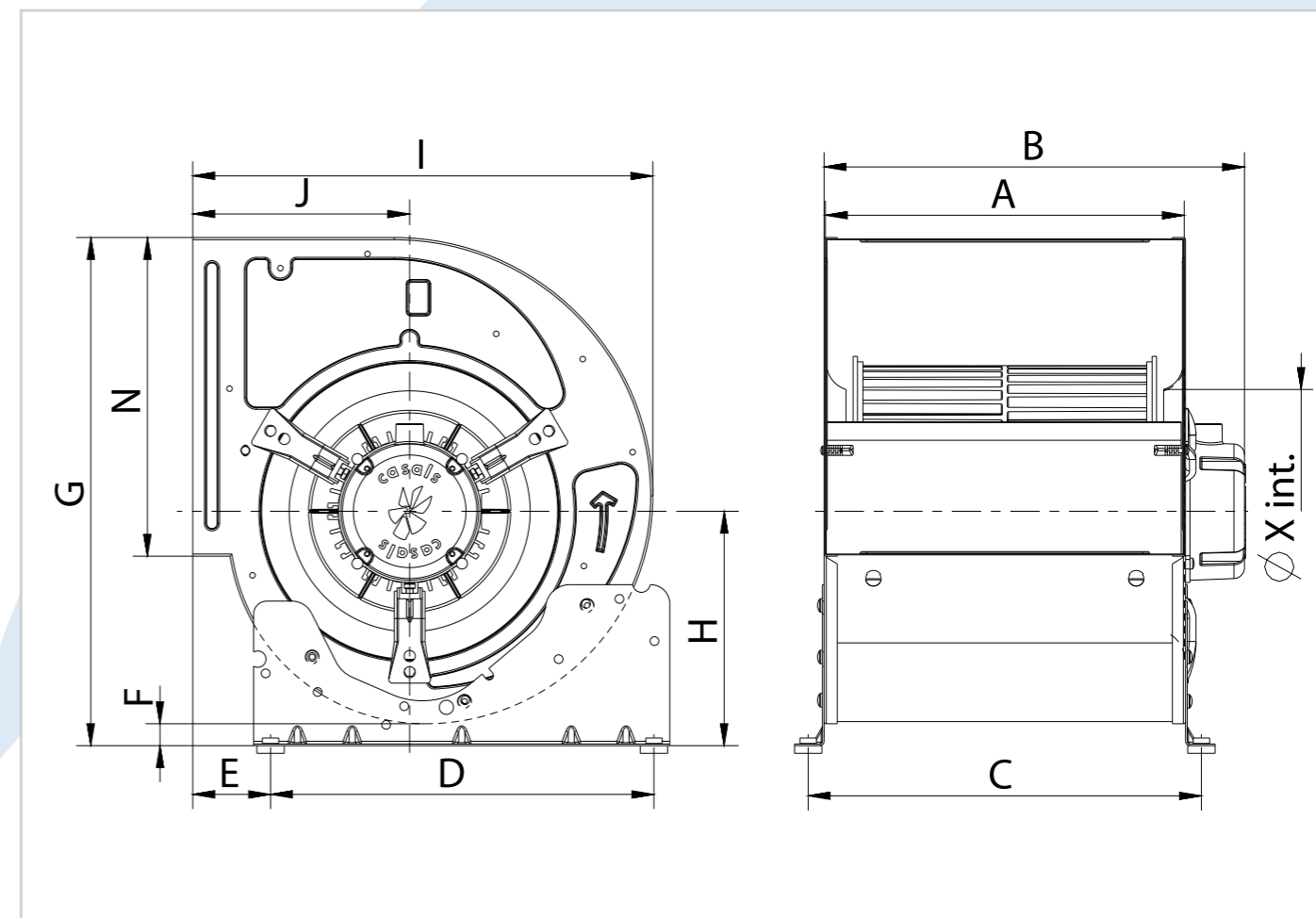
Power	RPM	Capacitor	I Max (230V)	Size	Approx Weight	Efficiency (%)	FP
0.13kW	940	6µF 400V	1.3A	STC80	4.7kg	66.8%	0.99

### ERP Data

Fan Datasheet		
Fan Type	Centrifugal fan radial or forward blades	
Installation Category	A: Outlet and Inlet Free Discharge	
Efficiency Category	Static	
The Fan has to be installed with VF	No	
Motor Power (kW)	0.13	
	Fan Values	ERP Requirements 2015
Max. Efficiency (%)	32.72	32.34
Efficiency Grade (N)	44.38	44
Pabs (kW)	0.143	
Flow (m³/h)	1012.63	
Static Pressure (Pa)	164.08	
Speed (m/s)	940	
Specific Ratio	1.00	



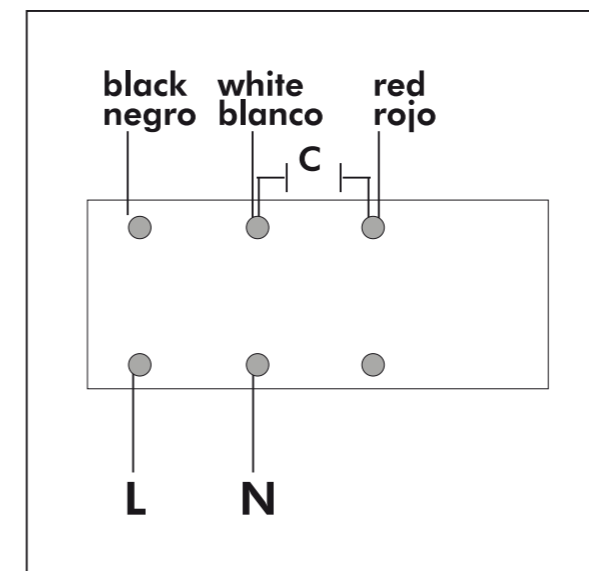
## BD-9/9-M4-0.35kW Dimensions



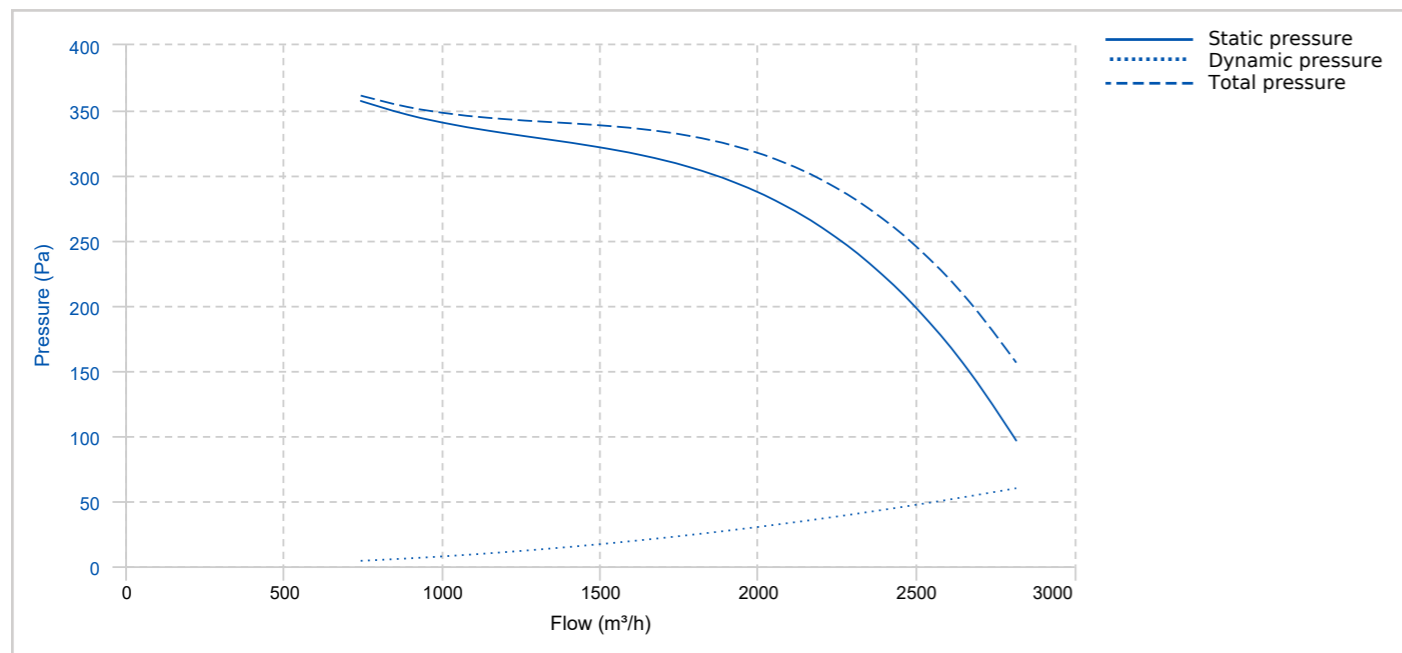
### Dimensions

A	B	C	D	E	F	G	H	I	j	N	X
301	354.5	330	245	70	19	407	191	376	184	260	202

### Wiring Diagram



### BD-9/9-M4-0.35kW Performance Curve



#### Technical Data: Fan

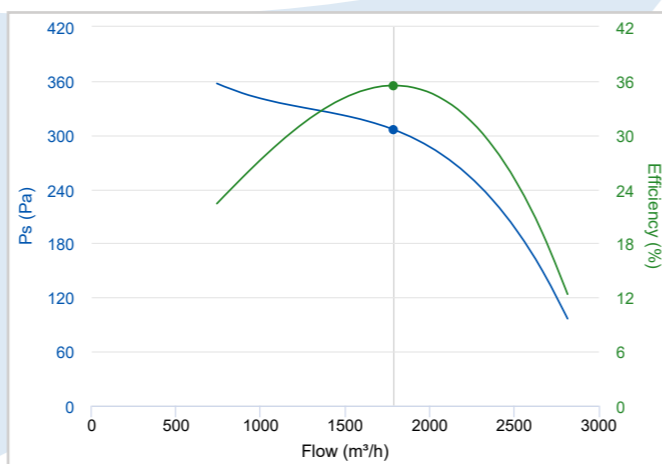
RPM	Approx Weight	Max Flow
1375	12kg	2820m³/h

#### Technical Data: Motor

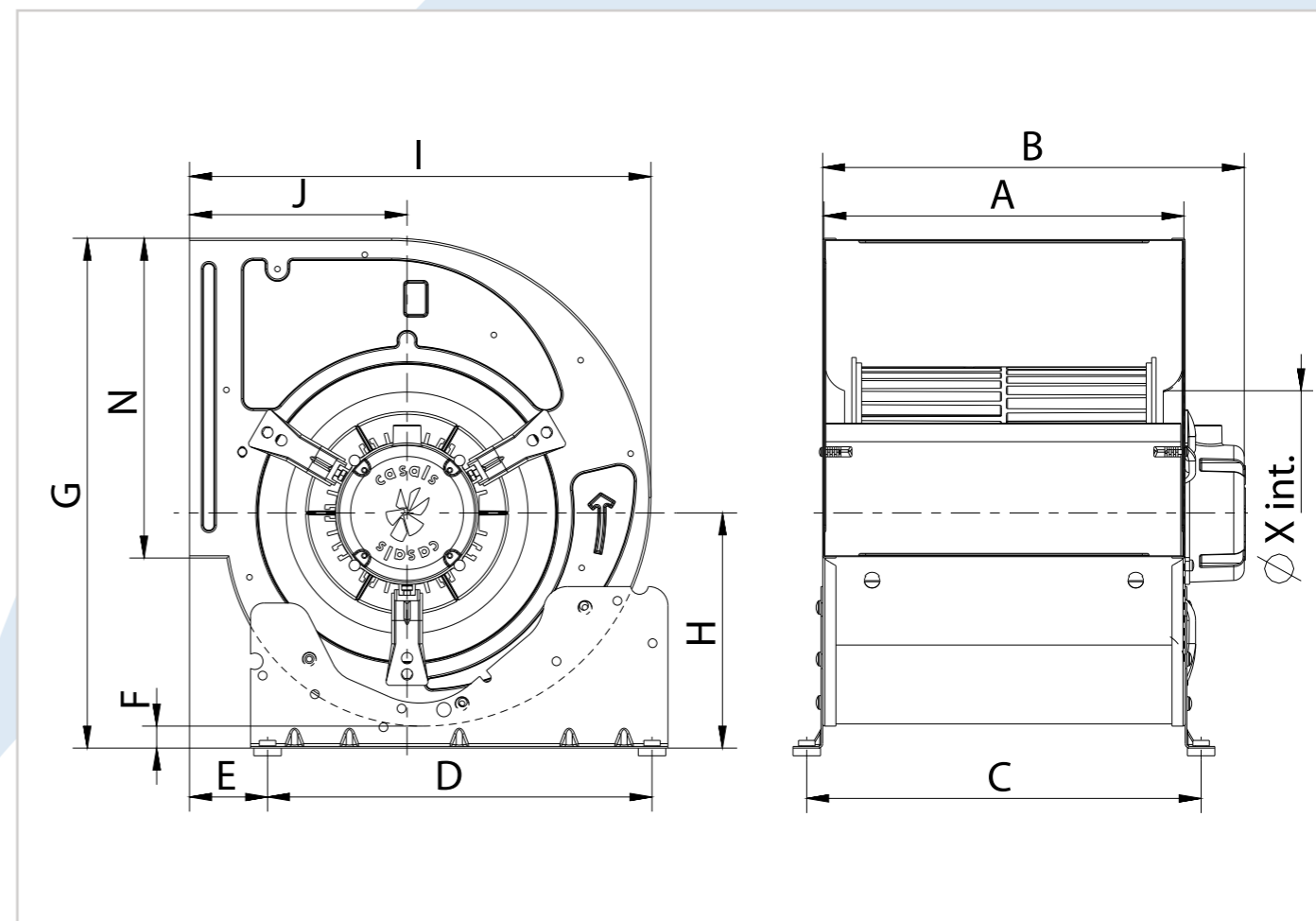
Power	RPM	Capacitor	I Max (230V)	Size	Approx Weight	Efficiency (%)	FP
0.35kW	1375	18µF 400V	2.7A	STC80	6.4kg	71.8%	0.98

#### ERP Data

Fan Datasheet		
Fan Type	Centrifugal fan radial or forward blades	
Installation Category	A: Outlet and Inlet Free Discharge	
Efficiency Category	Static	
The Fan has to be installed with VF	No	
Motor Power (kW)	0.35	
	Fan Values	ERP Requirements 2015
Max. Efficiency (%)	35.49	35.41
Efficiency Grade (N)	44.08	44
Pabs (kW)	0.438	
Flow (m³/h)	1790.28	
Static Pressure (Pa)	305.88	
Speed (m/s)	1375	
Specific Ratio	1.00	



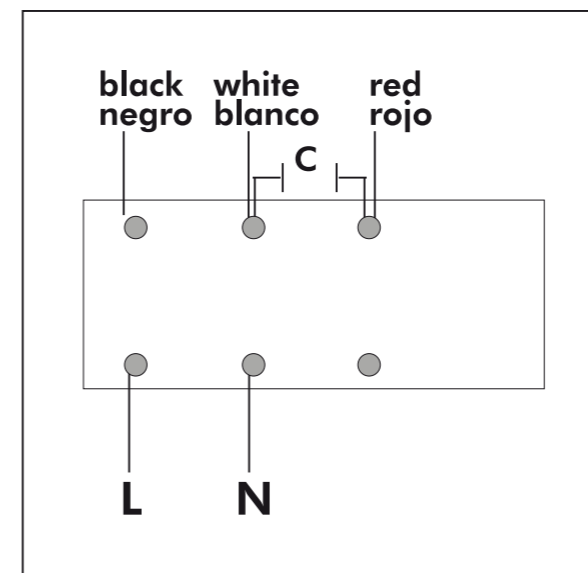
### BD-9/9-M6-0.13kW Dimensions



#### Dimensions

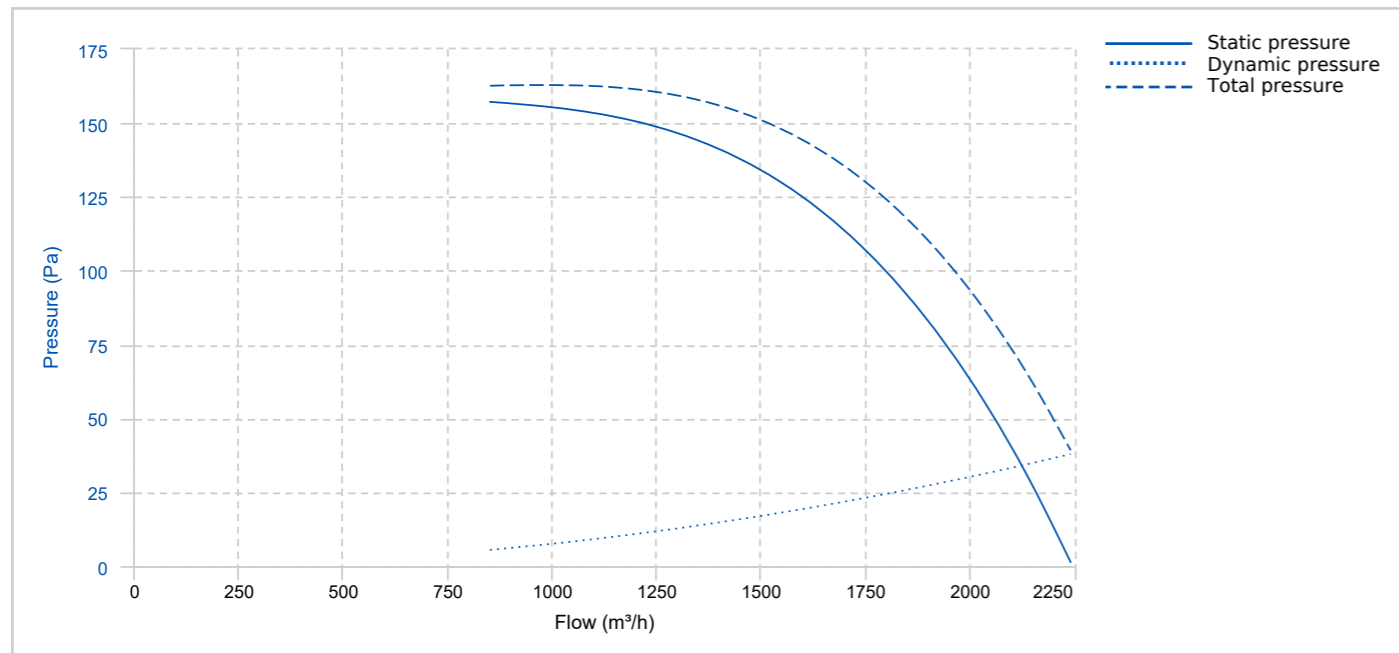
A	B	C	D	E	F	G	H	I	J	N	X
301	352	330	245	70	19	407	191	376	184	260	202

#### Wiring Diagram





### BD-9/9-M6-0.13kW Performance Curve



#### Technical Data: Fan

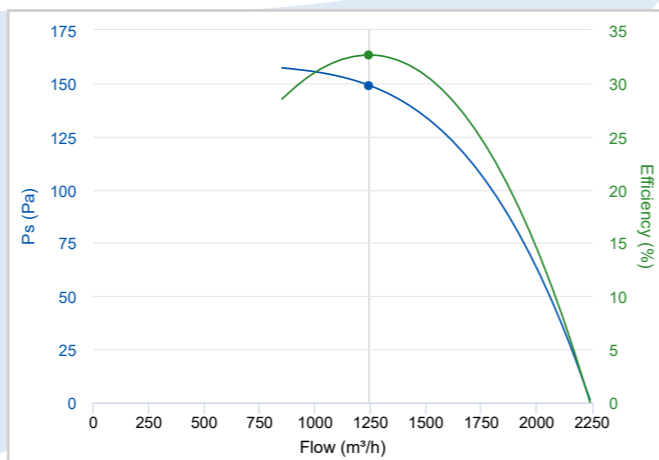
RPM	Approx Weight	Max Flow
940	15kg	2250m³/h

#### Technical Data: Motor

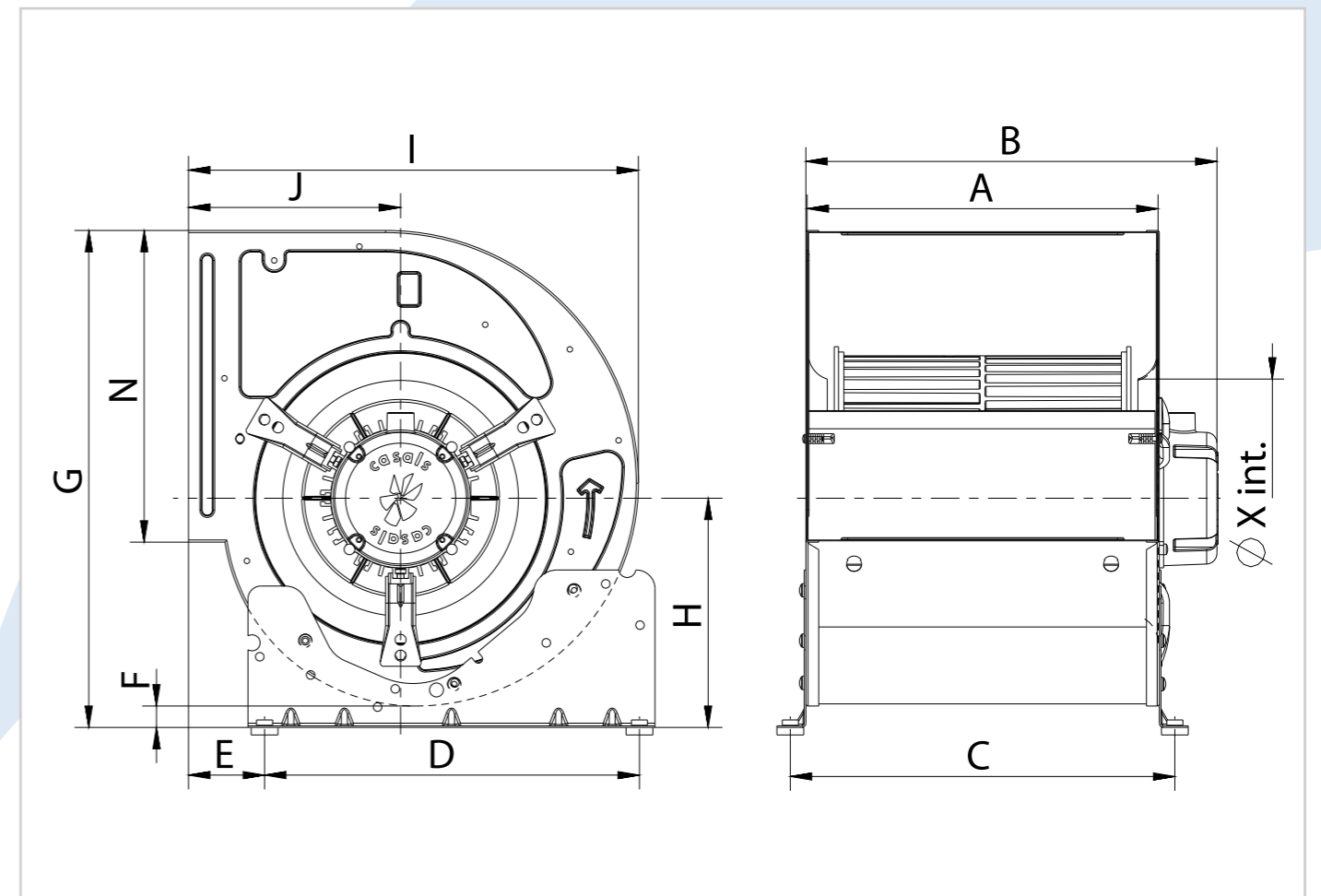
Power	RPM	Capacitor	I Max (230V)	Size	Approx Weight	Efficiency (%)	FP
0.13kW	940	6µF 400V	1.3A	STC80	4.7kg	66.8%	0.99

#### ERP Data

Fan Datasheet		
Fan Type	Centrifugal fan radial or forward blades	
Installation Category	A: Outlet and Inlet Free Discharge	
Efficiency Category	Static	
The Fan has to be installed with VF	No	
Motor Power (kW)	0.13	
	Fan Values	ERP Requirements 2015
Max. Efficiency (%)	32.64	32.6
Efficiency Grade (N)	44.03	44
Pabs (kW)	0.157	
Flow (m³/h)	1243.12	
Static Pressure (Pa)	149.05	
Speed (m/s)	940	
Specific Ratio	1.00	



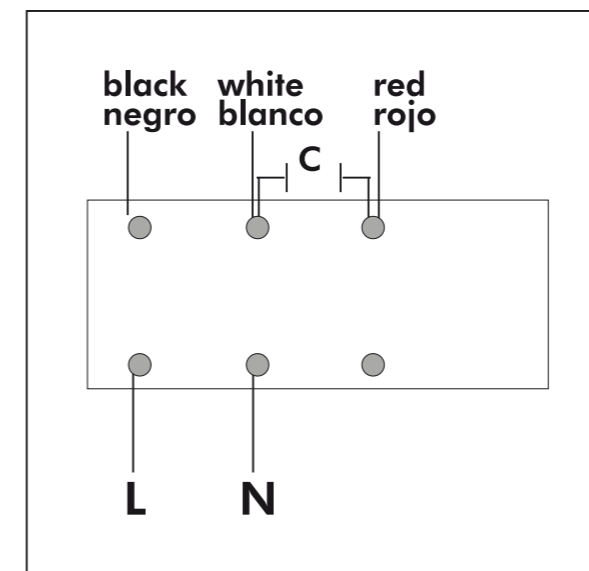
### BD-10/8-M4-0.59kW Dimensions



#### Dimensions

A	B	C	D	E	F	G	H	I	J	N	X
265	339	294	350	70.5	20	464	214	420	198	291	220

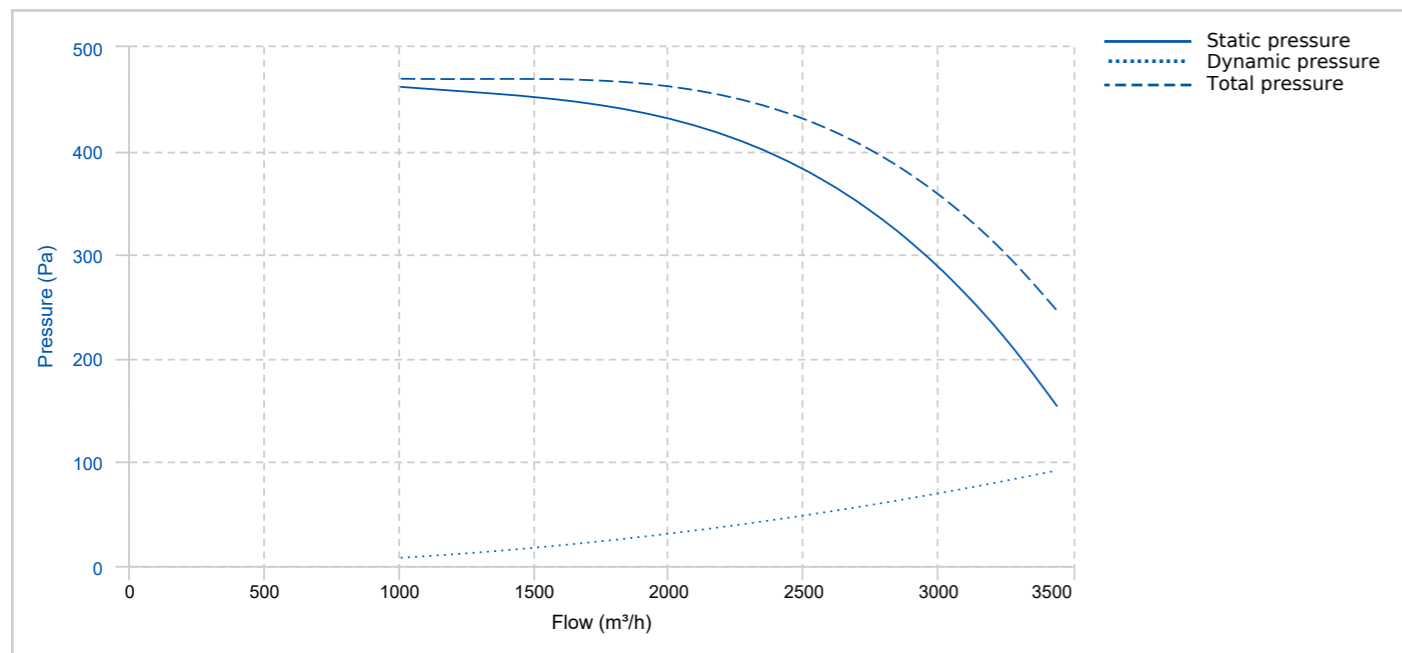
#### Wiring Diagram



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### BD-10/8-M4-0.59kW Performance Curve



#### Technical Data: Fan

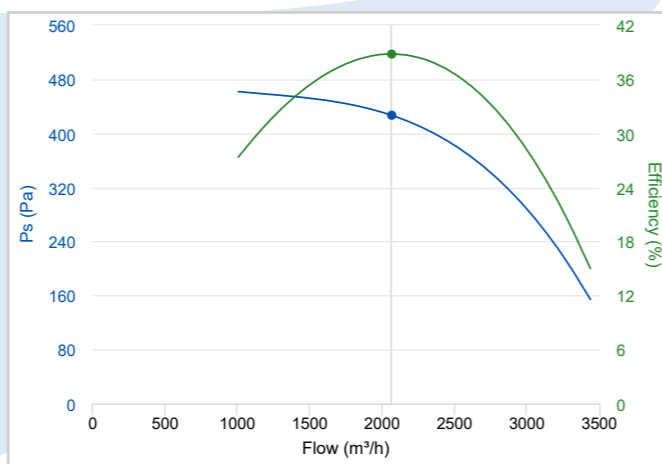
RPM	Approx Weight	Max Flow
1340	22kg	3440m³/h

#### Technical Data: Motor

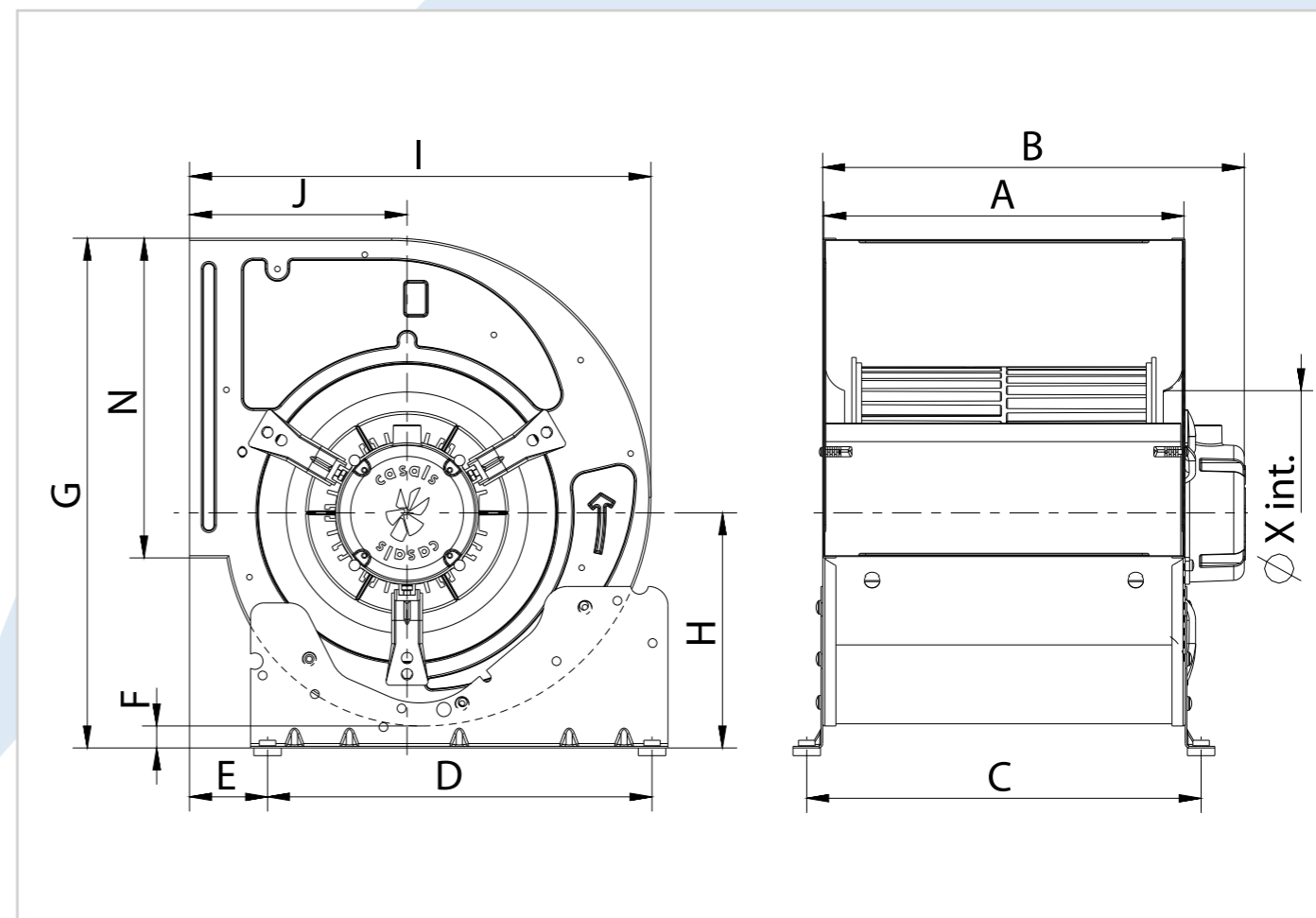
Power	RPM	Capacitor	I Max (230V)	Size	Approx Weight	Efficiency (%)	FP
0.59kW	1340	28µF 400V	4.5A	STC80	7.7kg	68%	0.96

#### ERP Data

Fan Datasheet		
Fan Type	Centrifugal fan radial or forward blades	
Installation Category	A: Outlet and Inlet Free Discharge	
Efficiency Category	Static	
The Fan has to be installed with VF	No	
Motor Power (kW)	0.59	
	Fan Values	ERP Requirements 2015
Max. Efficiency (%)	38.8	36.45
Efficiency Grade (N)	46.35	44
Pabs (kW)	0.64	
Flow (m³/h)	2064.92	
Static Pressure (Pa)	426.79	
Speed (m/s)	1340	
Specific Ratio	1.00	



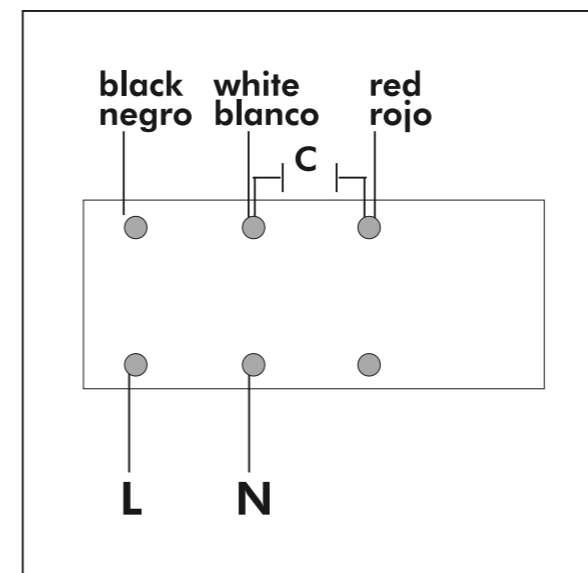
### BD-10/8-M6-0.21kW Dimensions



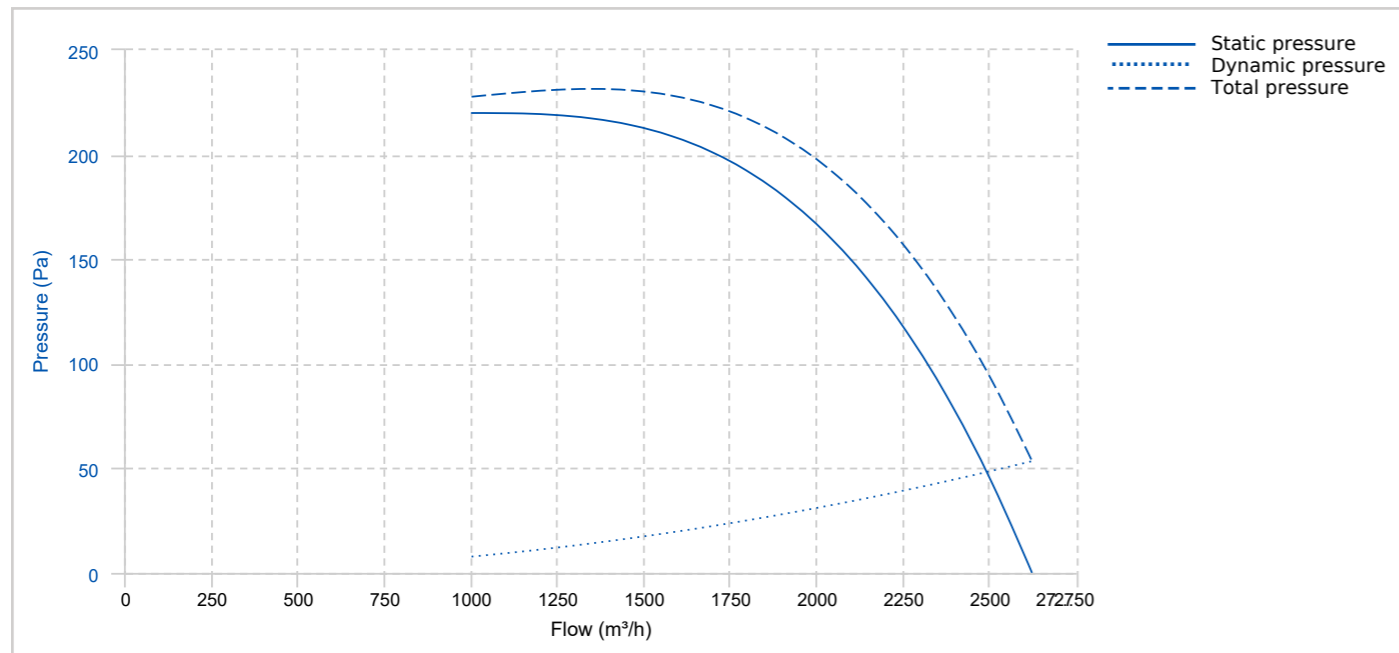
#### Dimensions

A	B	C	D	E	F	G	H	I	J	N	X
265	333	294	350	70.5	20	464	214	420	198	291	220

#### Wiring Diagram



### BD-10/8-M6-0.21kW Performance Curve



### Technical Data: Fan

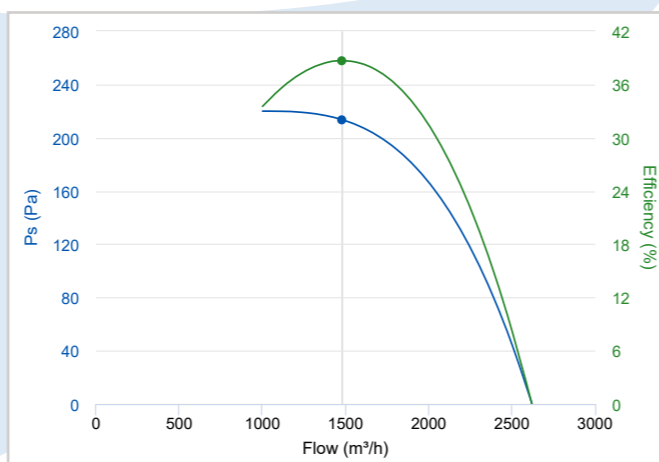
RPM	Approx Weight	Max Flow
945	17kg	2630m³/h

### Technical Data: Motor

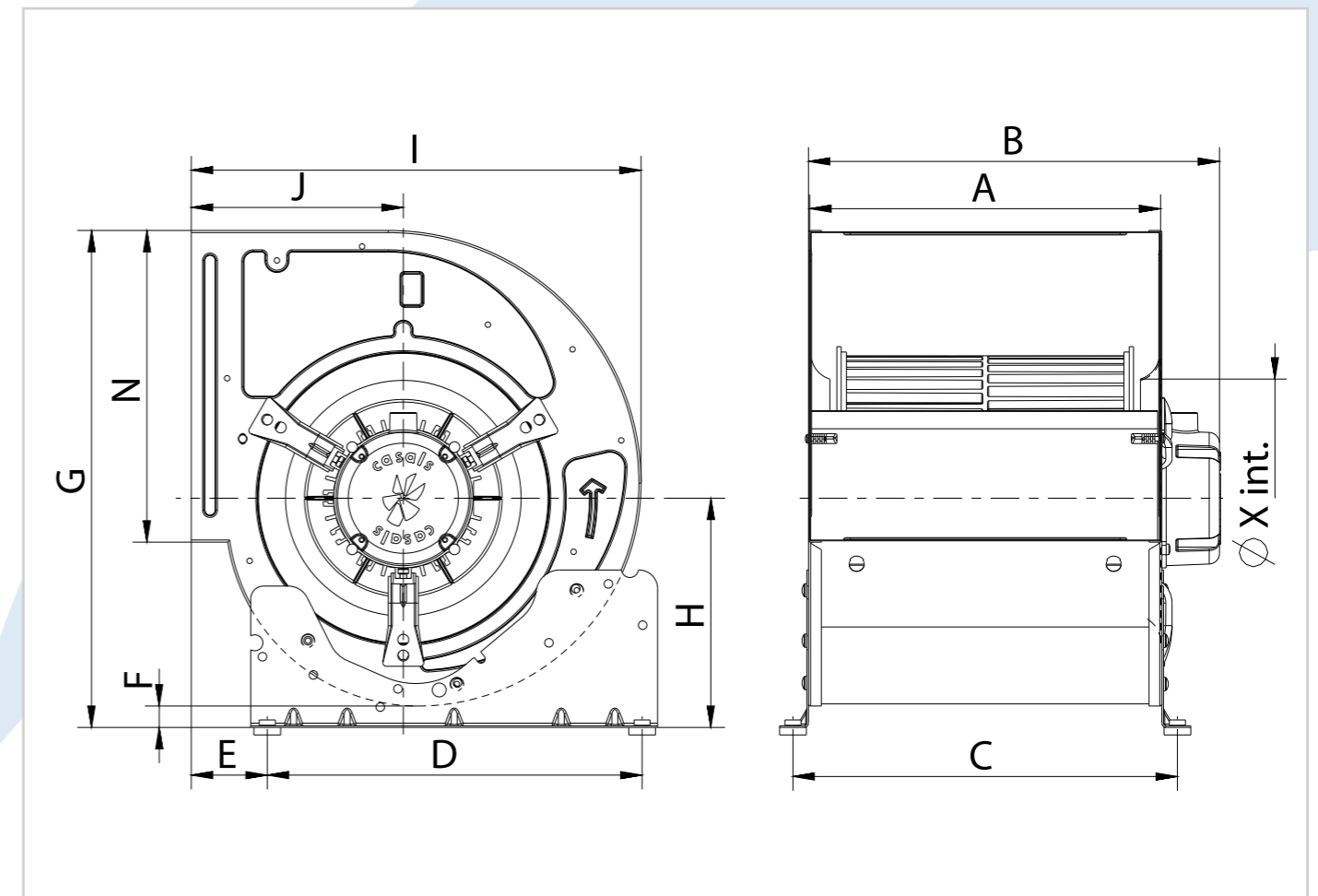
Power	RPM	Capacitor	I Max (230V)	Size	Approx Weight	Efficiency (%)	FP
0.21kW	945	9µF 400V	2.1A	STC80	5kg	68%	0.99

### ERP Data

Fan Datasheet		
Fan Type	Centrifugal fan radial or forward blades	
Installation Category	A: Outlet and Inlet Free Discharge	
Efficiency Category	Static	
The Fan has to be installed with VF	No	
Motor Power (kW)	0.21	
	Fan Values	ERP Requirements 2015
Max. Efficiency (%)	38.67	33.56
Efficiency Grade (N)	49.11	44
Pabs (kW)	0.223	
Flow (m³/h)	1481.15	
Static Pressure (Pa)	213.49	
Speed (m/s)	945	
Specific Ratio	1.00	



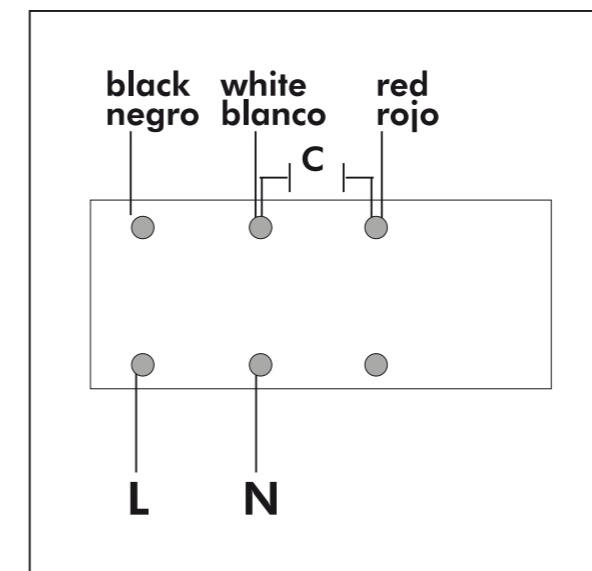
### BD-10/10-M4-0.59kW Dimensions



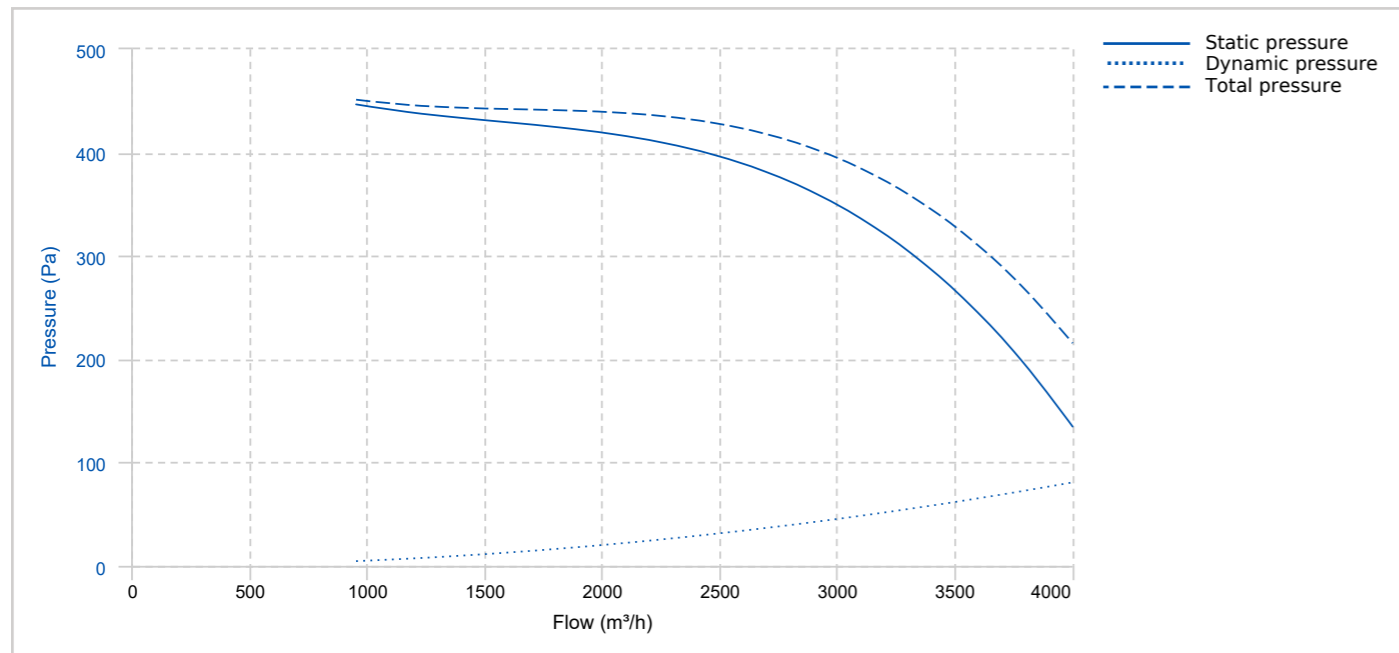
### Dimensions

A	B	C	D	E	F	G	H	I	J	N	X
329	384	359	350	70.5	20	464	214	420	198	291	220

### Wiring Diagram



## BD-10/10-M4-0.59kW Performance Curve



### Technical Data: Fan

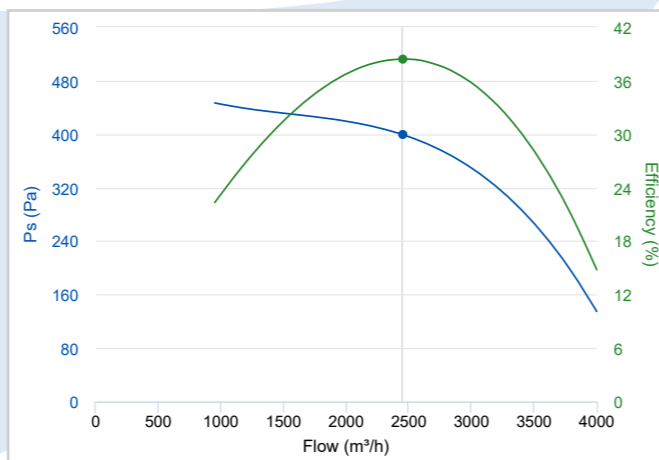
RPM	Approx Weight	Max Flow
1340	22kg	4010m³/h

### Technical Data: Motor

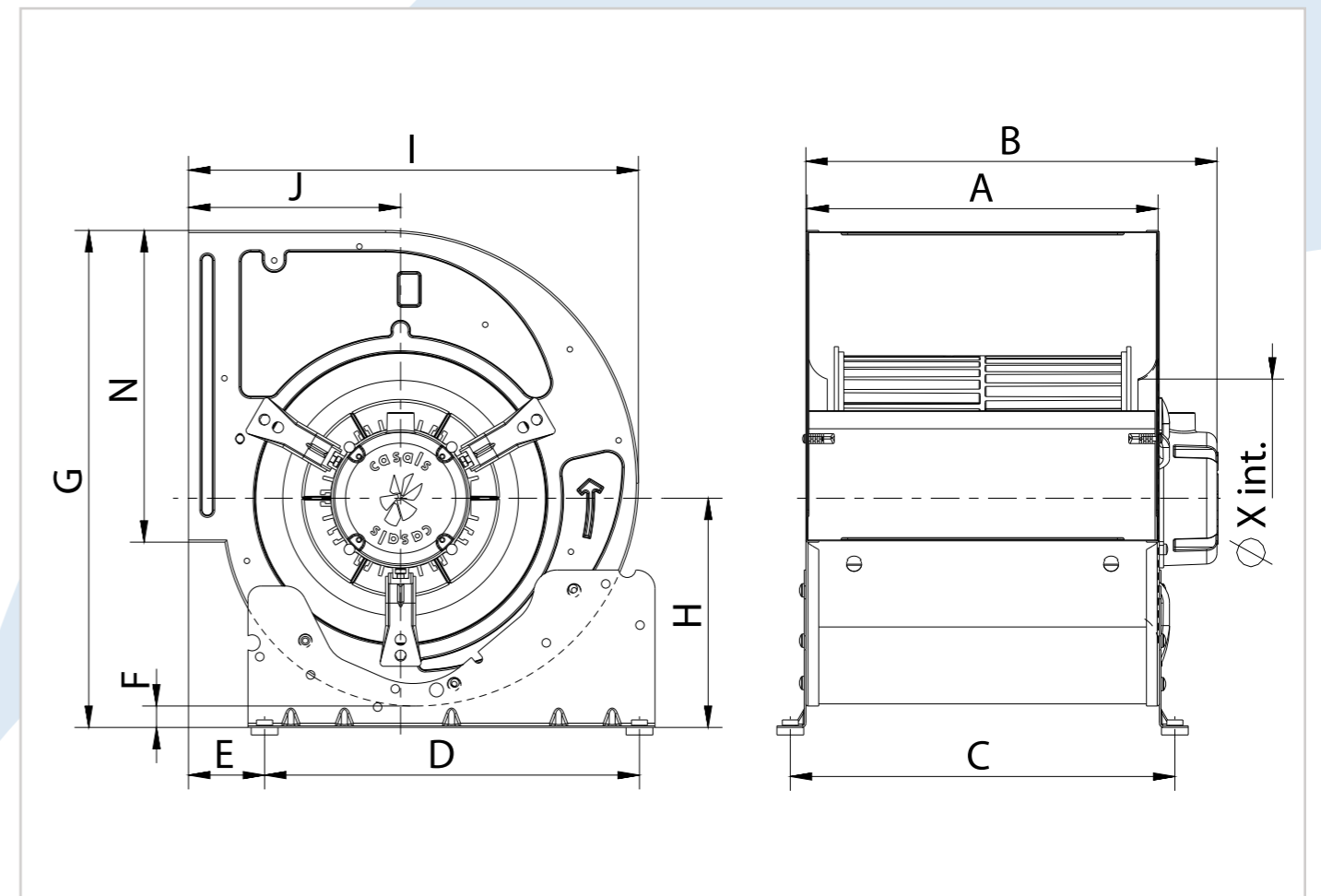
Power	RPM	Capacitor	I Max (230V)	Size	Approx Weight	Efficiency (%)	FP
0.59kW	1340	28µF 400V	4.5A	STC80	7.7kg	68%	0.96

### ERP Data

Fan Datasheet		
Fan Type	Centrifugal fan radial or forward blades	
Installation Category	A: Outlet and Inlet Free Discharge	
Efficiency Category	Static	
The Fan has to be installed with VF	No	
Motor Power (kW)	0.59	
	Fan Values	ERP Requirements 2015
Max. Efficiency (%)	38.41	36.8
Efficiency Grade (N)	45.62	44
Pabs (kW)	0.727	
Flow (m³/h)	2454.37	
Static Pressure (Pa)	399.11	
Speed (m/s)	1340	
Specific Ratio	1.00	



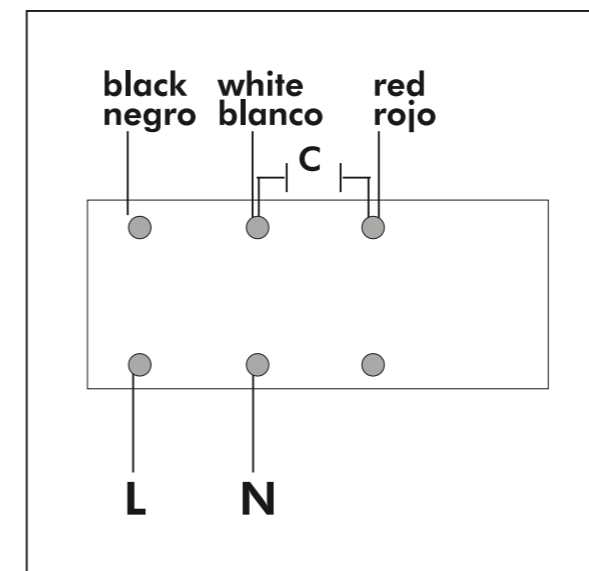
## BD-10/10-M6-0.21kW Dimensions



### Dimensions

A	B	C	D	E	F	G	H	I	J	N	X
329	384	359	350	70.5	20	464	214	420	198	291	220

### Wiring Diagram

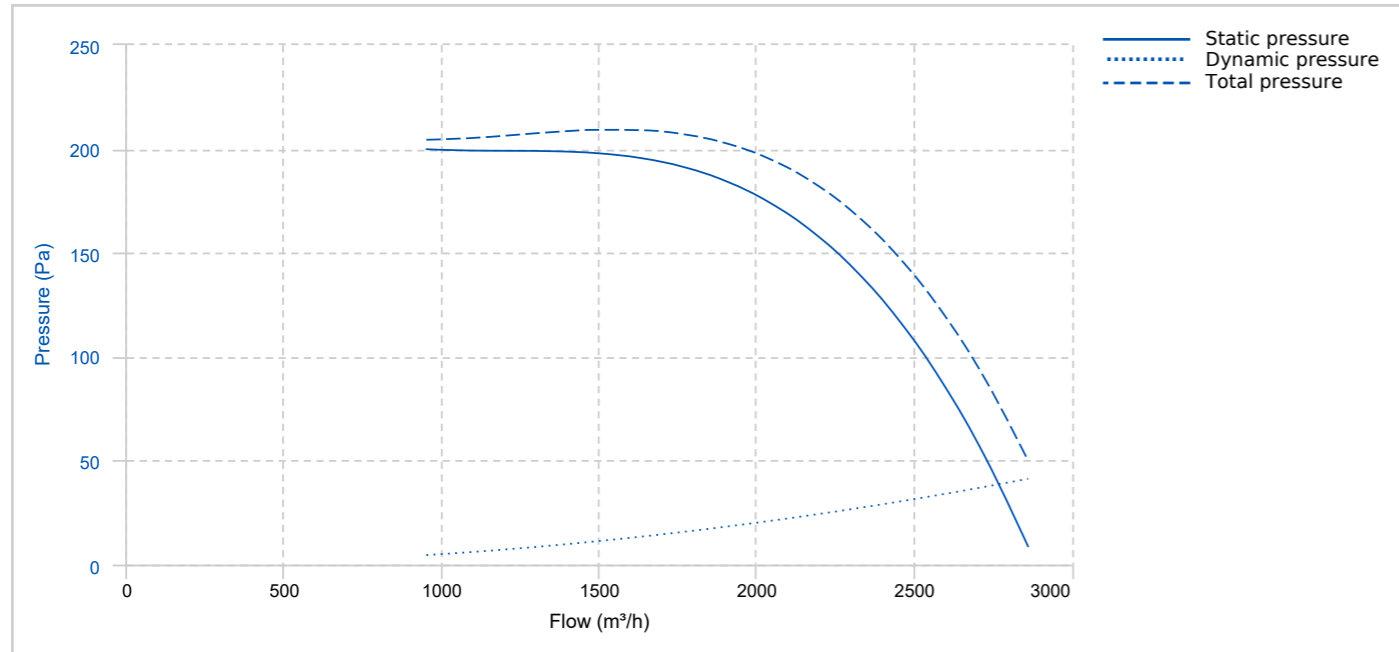


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### BD-10/10-M6-0.21kW Dimensions



#### Technical Data: Fan

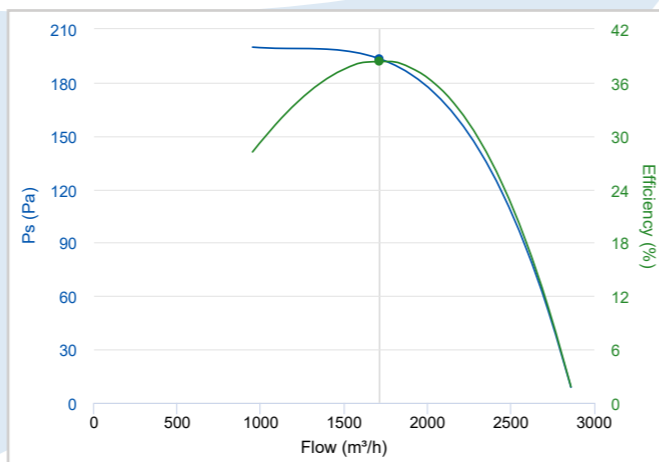
RPM	Approx Weight	Max Flow
945	15.5kg	2870m³/h

#### Technical Data: Motor

Power	RPM	Capacitor	I Max (230V)	Size	Approx Weight	Efficiency (%)	FP
0.21kW	945	9µF 400V	2.1A	STC80	5kg	68%	0.99

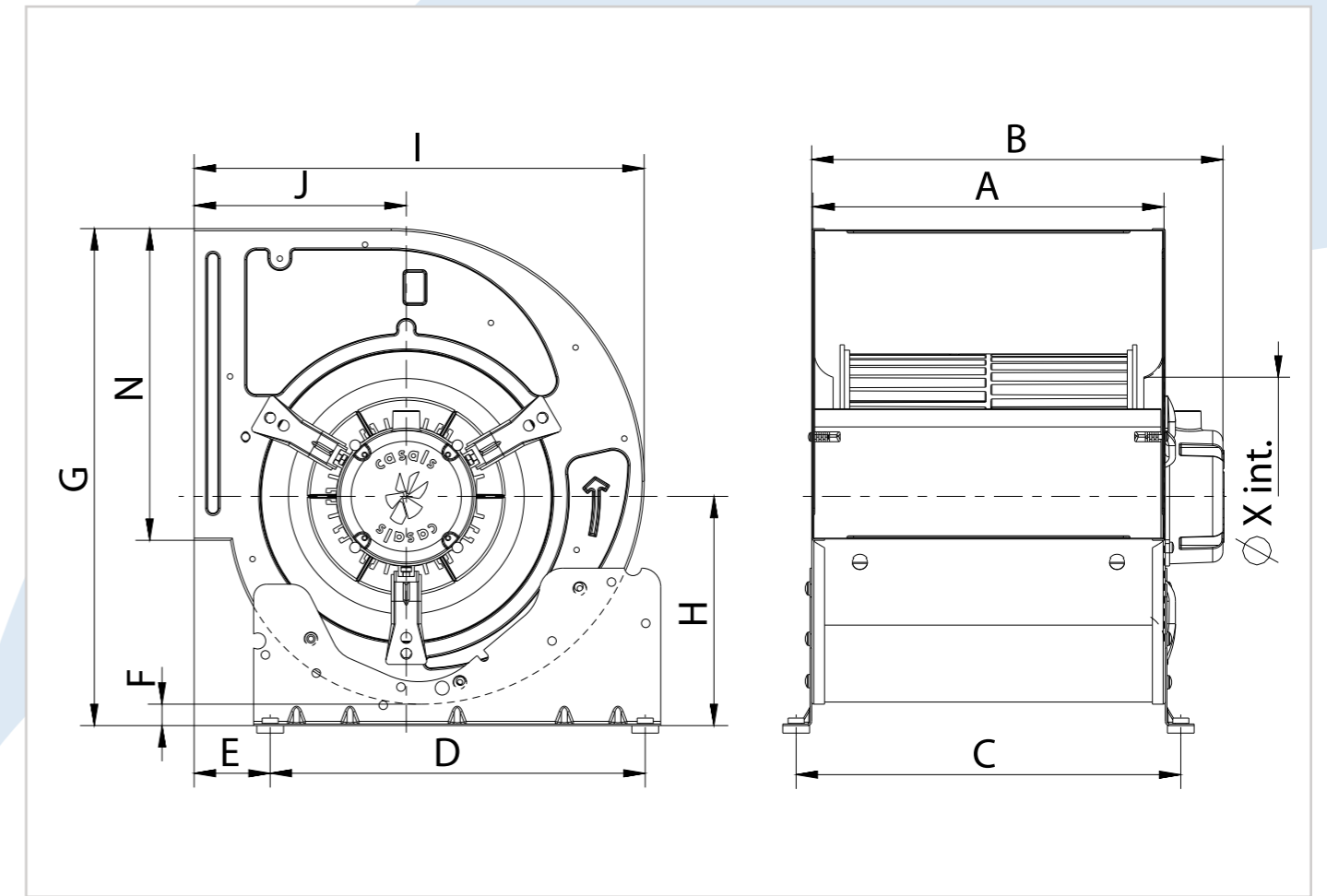
#### ERP Data

Fan Datasheet		
Fan Type	Centrifugal fan radial or forward blades	
Installation Category	A: Outlet and Inlet Free Discharge	
Efficiency Category	Static	
The Fan has to be installed with VF	No	
Motor Power (kW)	0.21	
	Fan Values	ERP Requirements 2015
Max. Efficiency (%)	38.43	33.68
Efficiency Grade (N)	48.75	44
Pabs (kW)	0.233	
Flow (m³/h)	1713.03	
Static Pressure (Pa)	193.37	
Speed (m/s)	945	
Specific Ratio	1.00	



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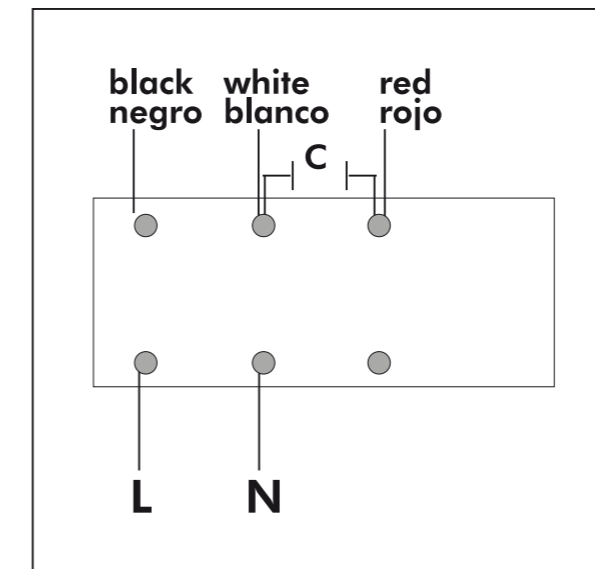
### BD-12/9-M6-0.76kW Dimensions



#### Dimensions

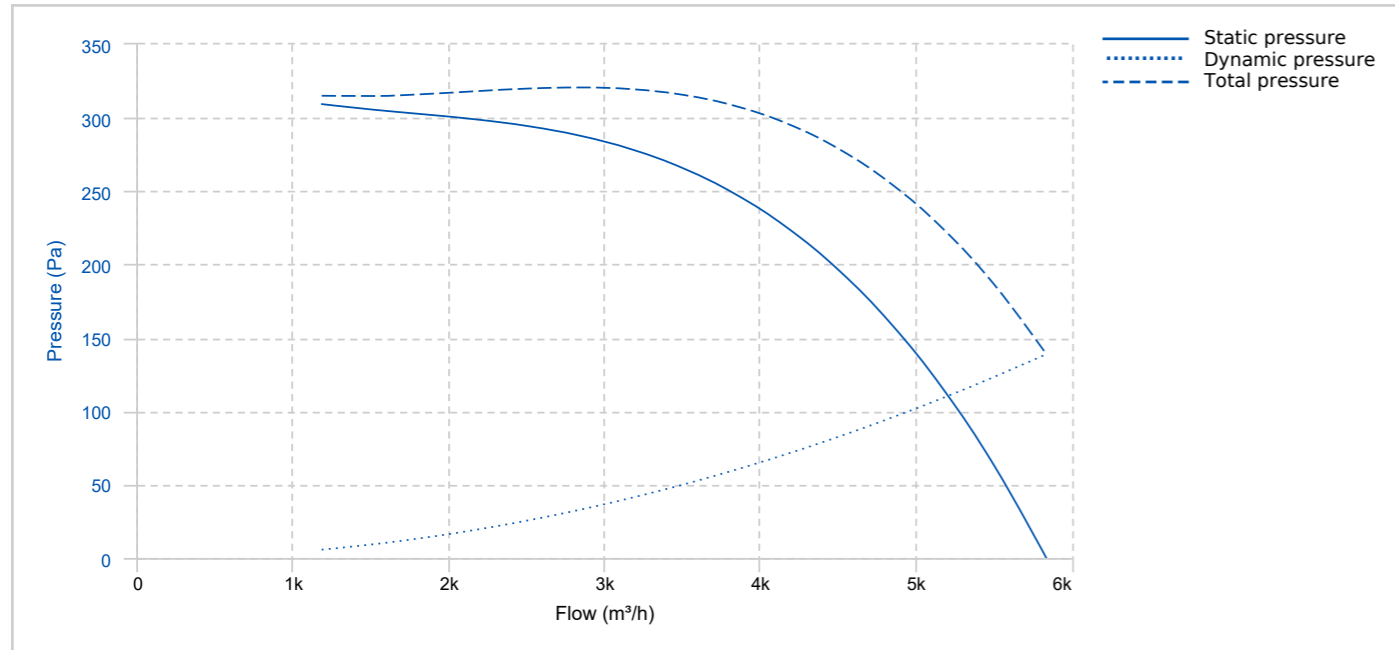
A	B	C	D	E	F	G	H	I	J	N	X
310	380	339	350	77	17	536	244	490	230	343.5	260

#### Wiring Diagram



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## BD-12/9-M6-0.76kW Dimensions



### Technical Data: Fan

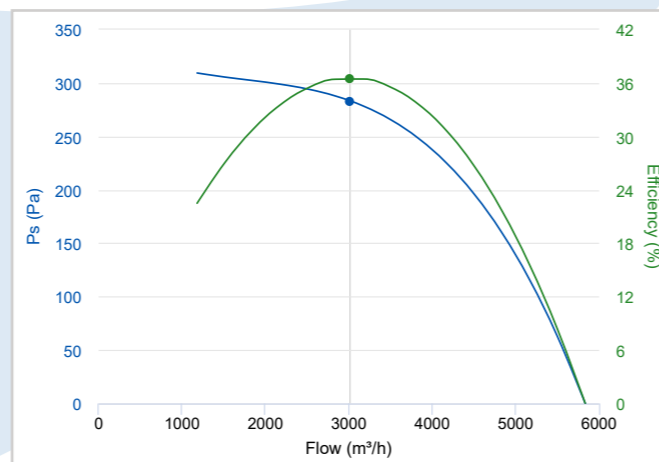
RPM	Approx Weight	Max Flow
950	21kg	5840m³/h

### Technical Data: Motor

Power	RPM	Capacitor	I Max (230V)	Size	Approx Weight	Efficiency (%)	FP
0.76kW	950	30µF 400V	6.7A	STC90	11.15kg	70%	0.96

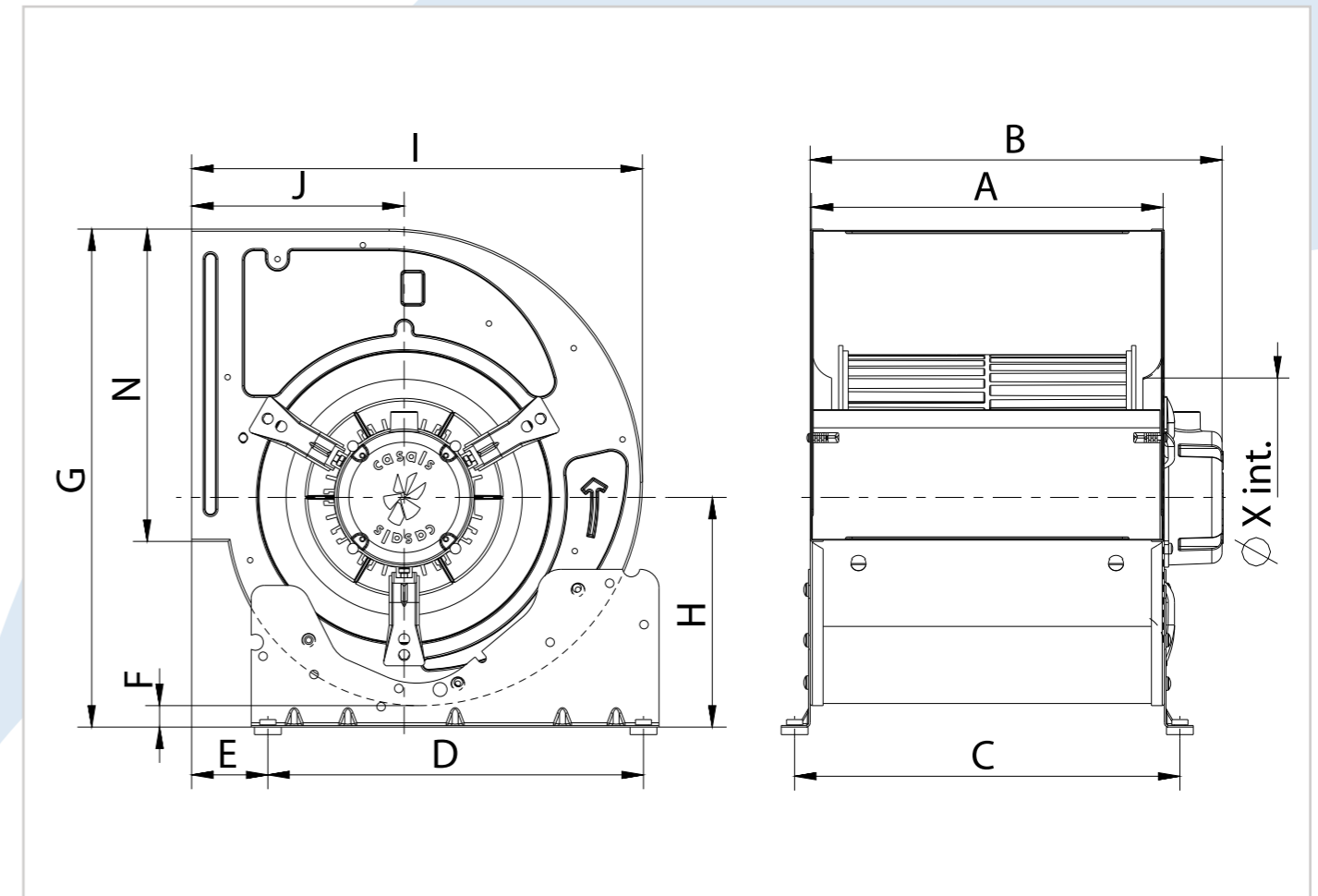
### ERP Data

Fan Datasheet		
Fan Type	Centrifugal fan radial or forward blades	
Installation Category	A: Outlet and Inlet Free Discharge	
Efficiency Category	Static	
The Fan has to be installed with VF	No	
Motor Power (kW)	0.76	
	Fan Values	ERP Requirements 2015
Max. Efficiency (%)	36.56	36.53
Efficiency Grade (N)	44.03	44
Pabs (kW)	0.659	
Flow (m³/h)	3017.28	
Static Pressure (Pa)	283.33	
Speed (m/s)	950	
Specific Ratio	1.00	



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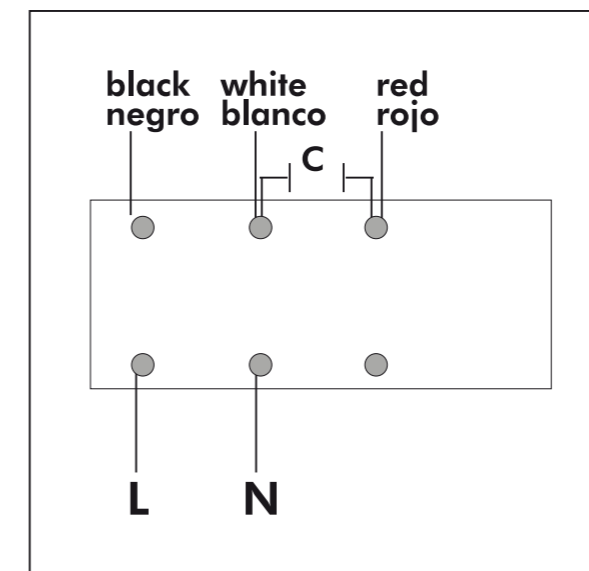
## BD-12/9-T6-1.1kW - 3 Phase Dimensions



### Dimensions

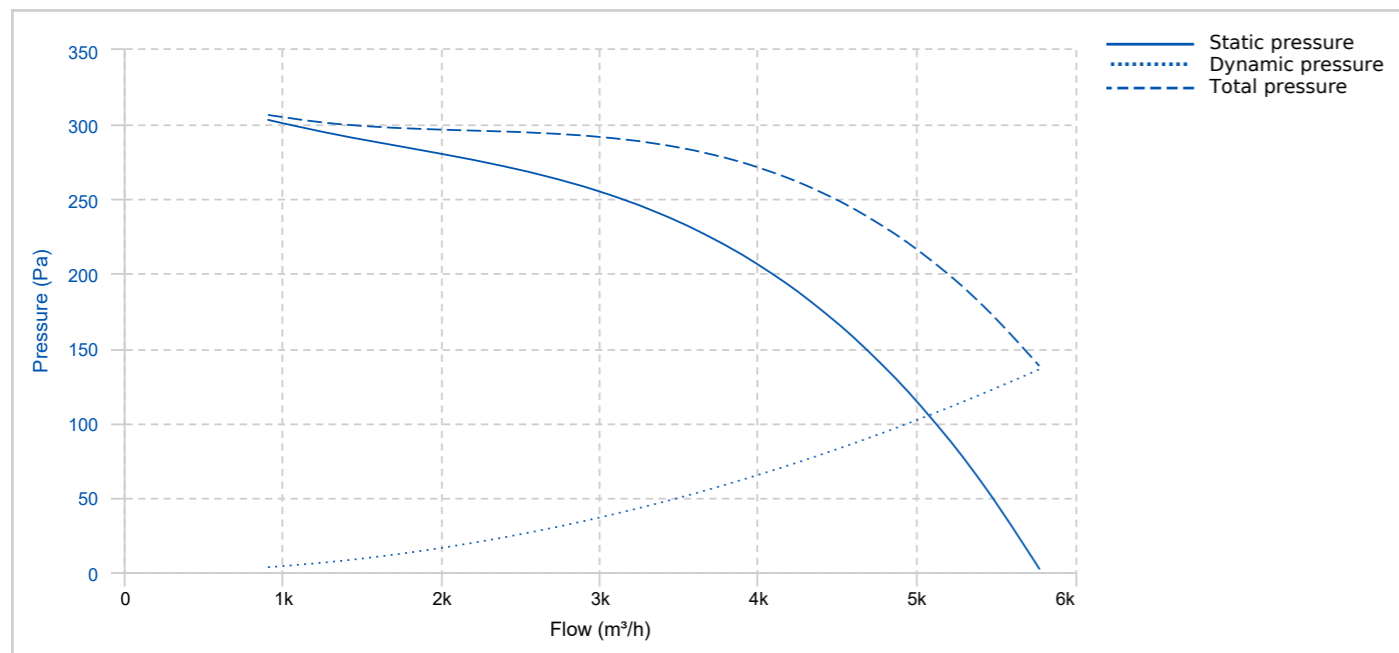
A	B	C	D	E	F	G	H	I	J	N	X
310	380	339	350	77	17	536	244	490	230	343.5	260

### Wiring Diagram



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## BD-12/9-T6-1.1kW - 3 Phase Dimensions



### Technical Data: Fan

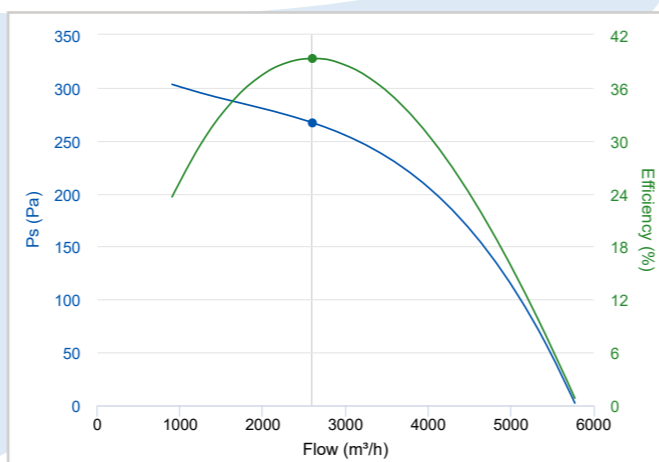
RPM	Approx Weight	Max Flow
945	26kg	5780m³/h

### Technical Data: Motor

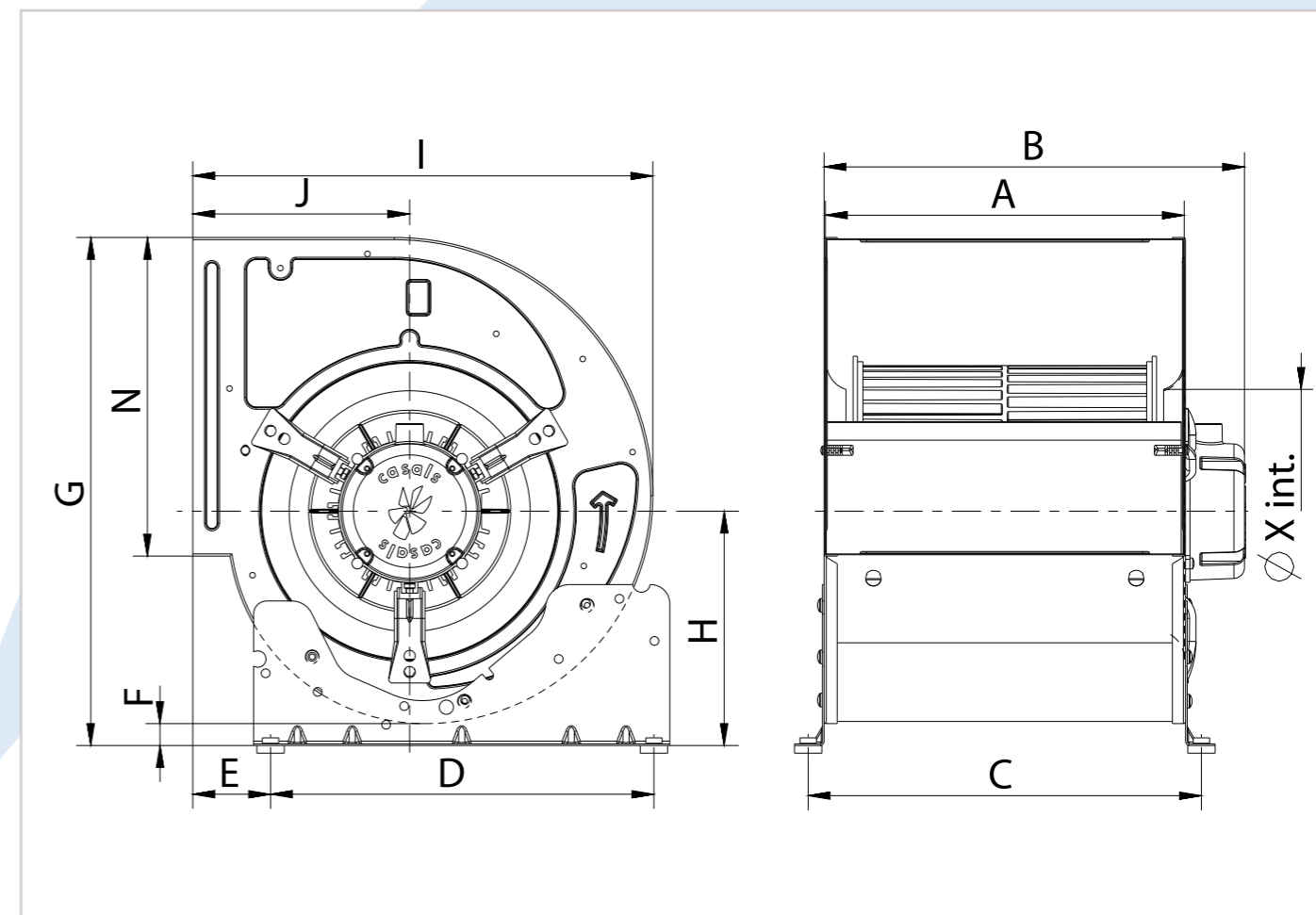
Power	RPM	I Max (230V)	I Max (400V)	Size	Approx Weight	Efficiency (%)	FP
1.1kW	945	6.54A	3.78A	STC90	10.6kg	78.09999999999994%	0.71

### ERP Data

Fan Datasheet		
Fan Type	Centrifugal fan radial or forward blades	
Installation Category	A: Outlet and Inlet Free Discharge	
Efficiency Category	Static	
The Fan has to be installed with VF	No	
Motor Power (kW)	1.1	
	Fan Values	ERP Requirements 2015
Max. Efficiency (%)	39.31	35.79
Efficiency Grade (N)	47.52	44
Pabs (kW)	0.504	
Flow (m³/h)	2597.4	
Static Pressure (Pa)	267.04	
Speed (m/s)	945	
Specific Ratio	1.00	



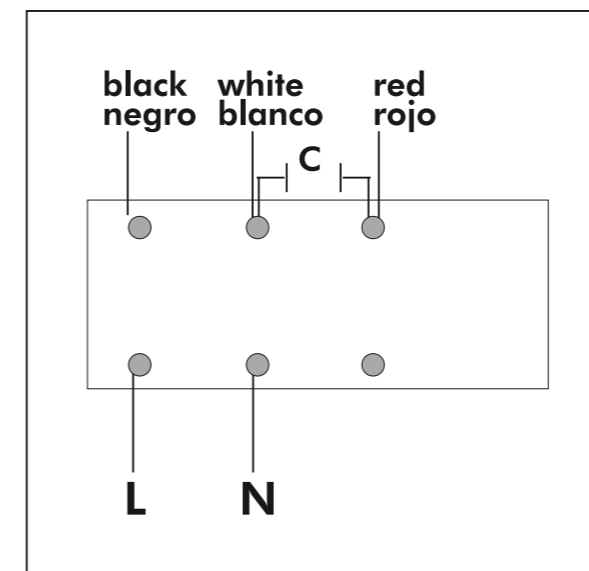
## BD-12/12-M6-0.76kW Dimensions



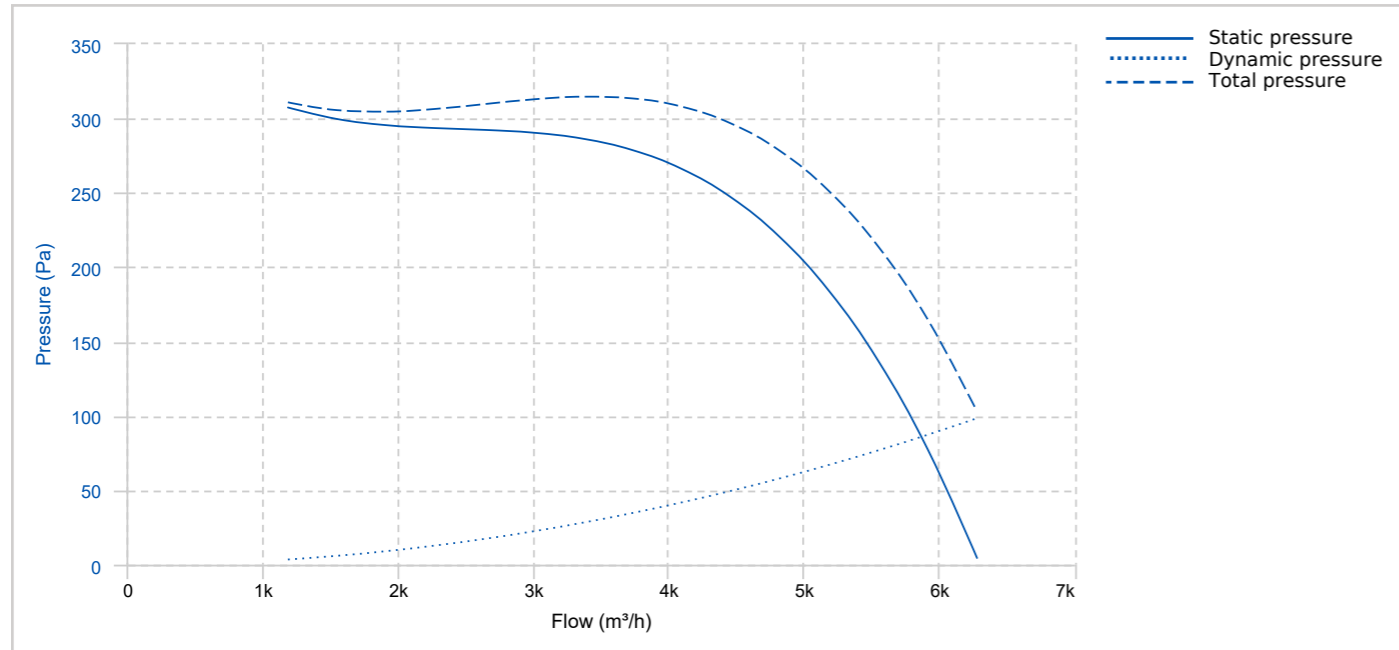
### Dimensions

A	B	C	D	E	F	G	H	I	J	N	X
396	437	425	350	77	17	536	244	490	230	343.5	260

### Wiring Diagram



## BD-12/12-M6-0.76kW Dimensions



### Technical Data: Fan

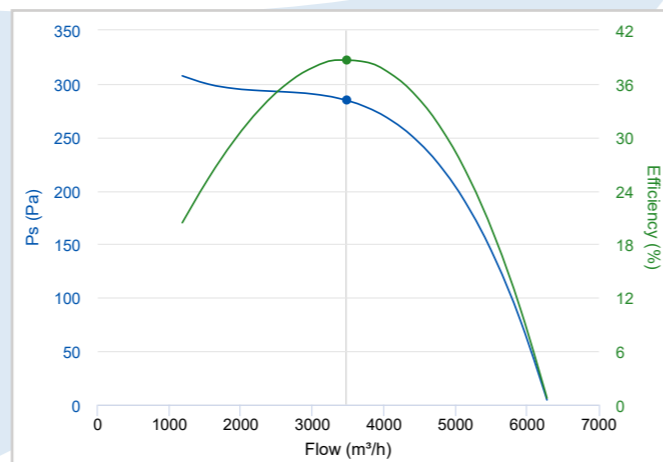
RPM	Approx Weight	Max Flow
950	27kg	6280m³/h

### Technical Data: Motor

Power	RPM	Capacitor	I Max (230V)	Size	Approx Weight	Efficiency (%)	FP
0.76kW	950	30µF 400V	6.7A	STC90	11.15kg	70%	0.96

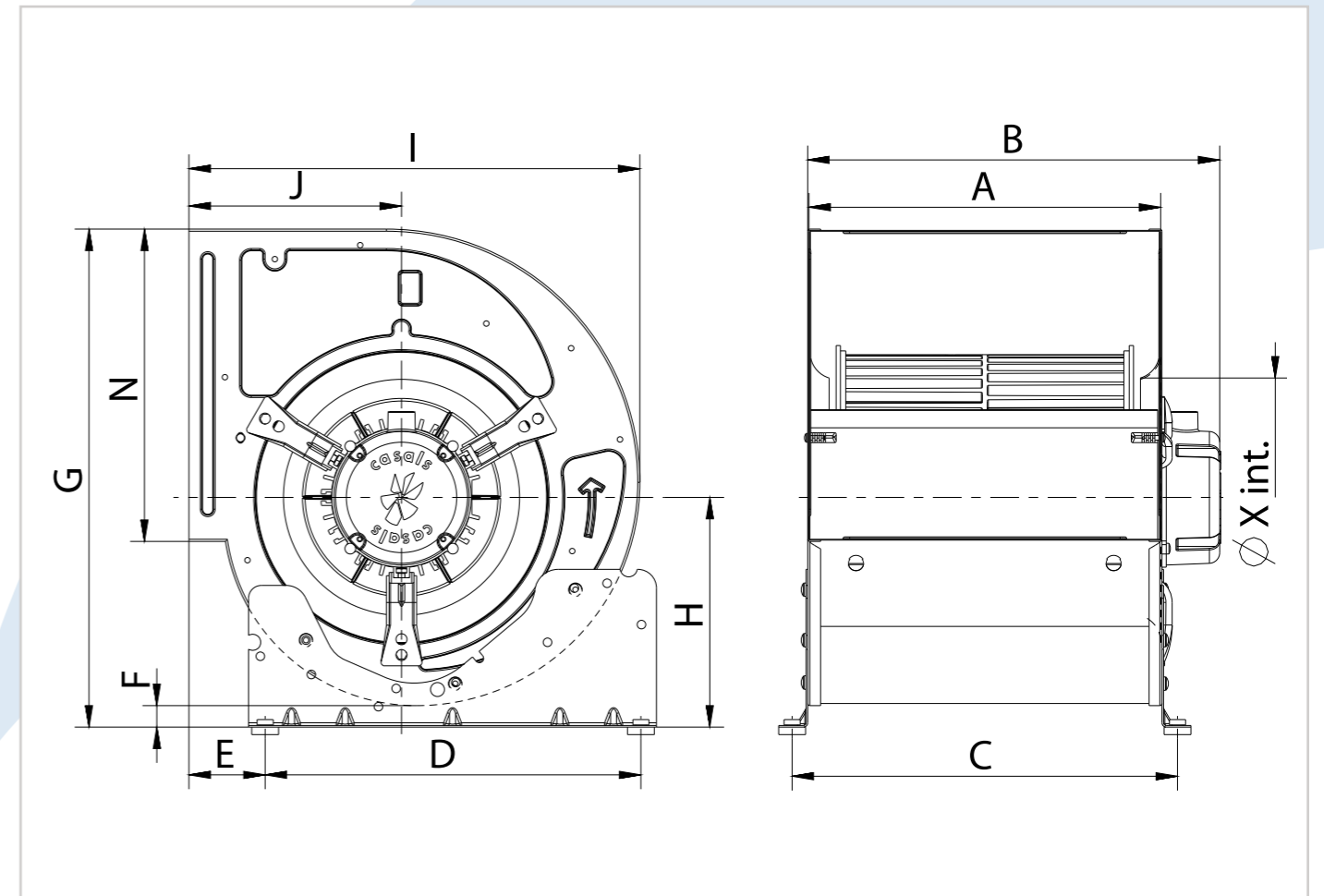
### ERP Data

Fan Datasheet		
Fan Type	Centrifugal fan radial or forward blades	
Installation Category	A: Outlet and Inlet Free Discharge	
Efficiency Category	Static	
The Fan has to be installed with VF	No	
Motor Power (kW)	0.76	
	Fan Values	ERP Requirements 2015
Max. Efficiency (%)	38.72	36.69
Efficiency Grade (N)	46.03	44
Pabs (kW)	0.698	
Flow (m³/h)	3479.52	
Static Pressure (Pa)	284.56	
Speed (m/s)	950	
Specific Ratio	1.00	



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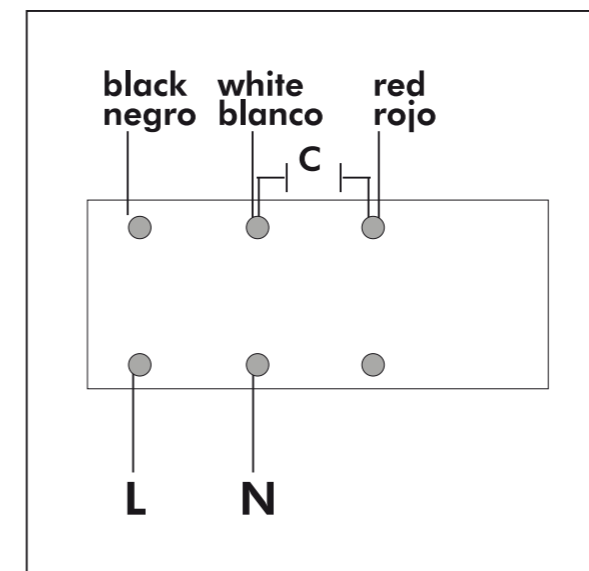
## BD-12/12-T6-1.1kW - 3 Phase Dimensions



### Dimensions

A	B	C	D	E	F	G	H	I	J	N	X
396	437	425	350	77	17	536	244	490	230	343.5	260

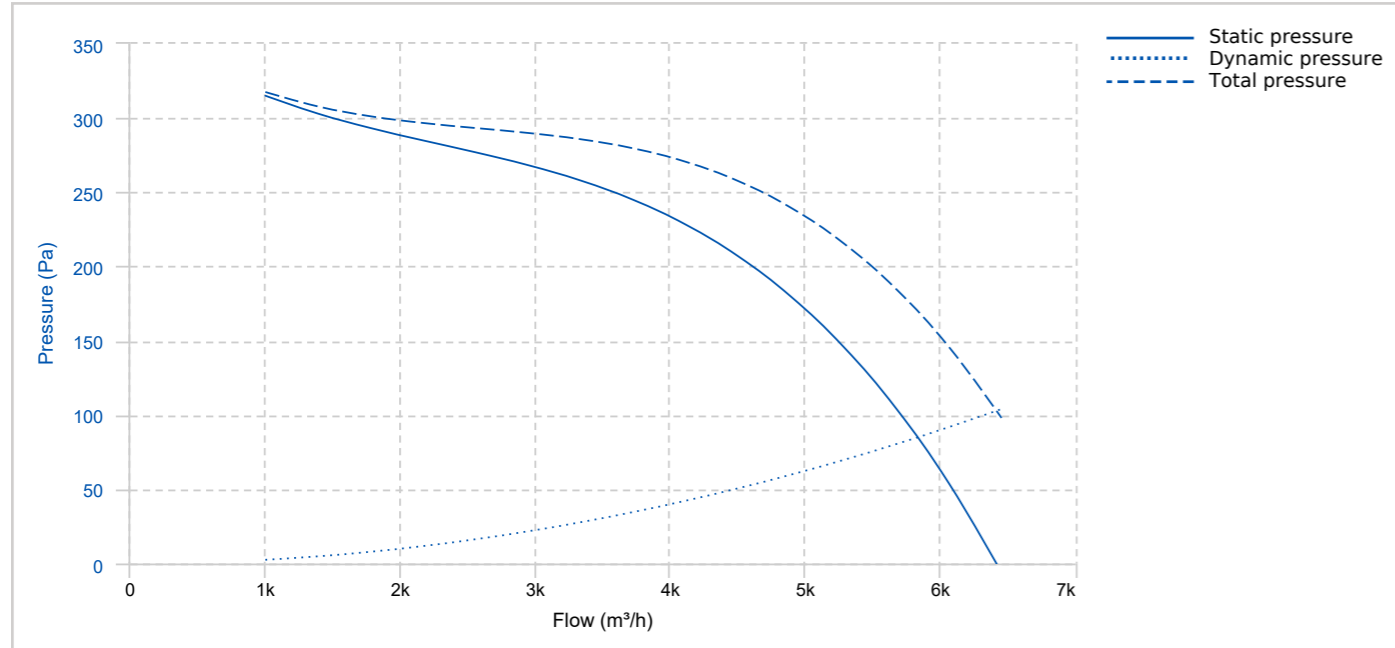
### Wiring Diagram



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## BD-12/12-T6-1.1kW - 3 Phase Dimensions



### Technical Data: Fan

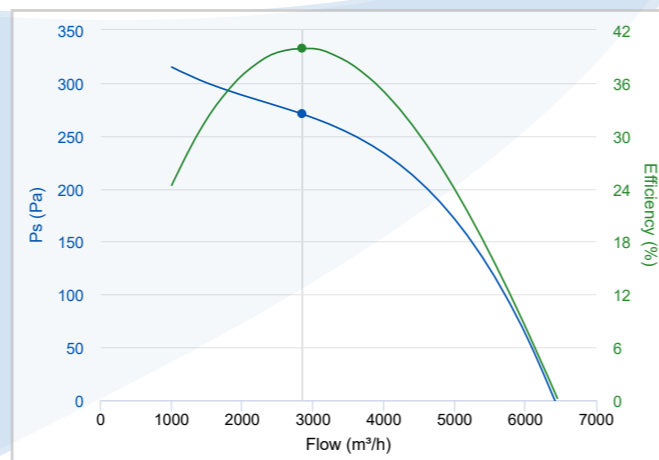
RPM	Approx Weight	Max Flow
945	27kg	6450m³/h

### Technical Data: Motor

Power	RPM	I Max (230V)	I Max (400V)	Size	Approx Weight	Efficiency (%)	FP
1.1kW	945	6.54A	3.78A	STC90	10.6kg	78.09999999999994%	0.71

### ERP Data

Fan Datasheet		
Fan Type	Centrifugal fan radial or forward blades	
Installation Category	A: Outlet and Inlet Free Discharge	
Efficiency Category	Static	
The Fan has to be installed with VF	No	
Motor Power (kW)	1.1	
	Fan Values	ERP Requirements 2015
Max. Efficiency (%)	39.95	36.09
Efficiency Grade (N)	47.86	44
Pabs (kW)	0.562	
Flow (m³/h)	2847.69	
Static Pressure (Pa)	270.65	
Speed (m/s)	945	
Specific Ratio	1.00	



## Contact Us

Whatever your issue, concern or question, contact our industrial team using the below contact details. Alternatively, visit our website and open a live chat to start discussions.

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**sales@axair-fans.co.uk**

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