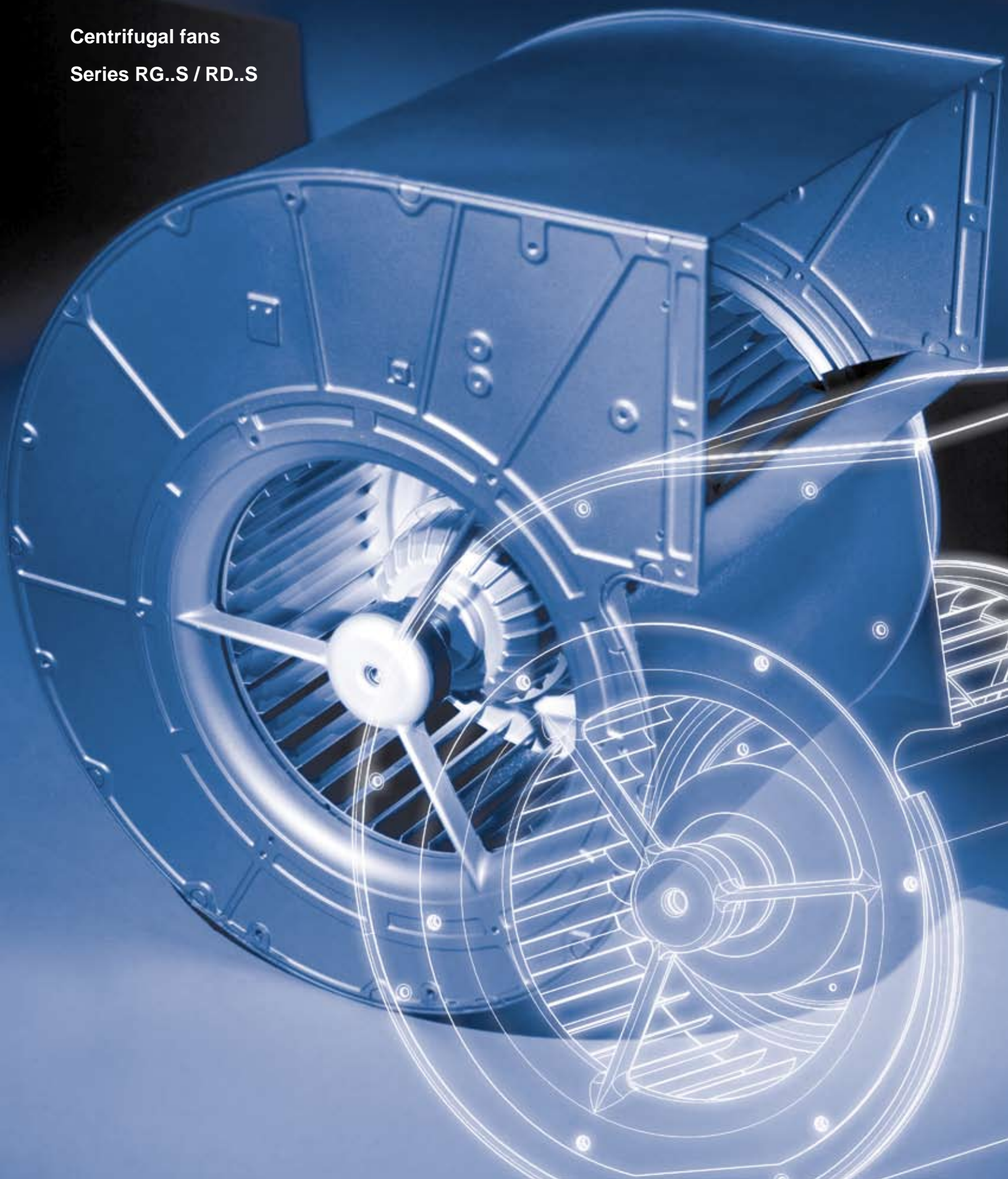


# Technical Data

Centrifugal fans

Series RG..S / RD..S



# Centrifugal fans

## Design RG..S/RD..S

### Scope of delivery

#### Standard version

##### Voltage

- 1~ 115 V  $\pm$  10%
- 1~ 230 V  $\pm$  10%
- 3~ single-speed 460 V  $\pm$  10% Y

##### Frequency

60 Hz

##### Temperature insulation class

THCL F

##### Motor IP class

IP54 / IP10 see technical description/ fan drive

##### Motor protection

Thermal contacts

##### Electrical connection

RG..S

Cable on side with 105 cm cable length

RD..S

Cable on side with 100 cm cable length

For detailed information, please see corresponding dimensioned drawing

##### Scroll design

Design RG..S

- sheet steel with and without flange

Design RD..S

- aluminium with and without flange
- sheet steel with and without flange

##### Painting

Motor in RAL 7032

Scroll housing and impeller unpainted

##### Fan operation temperature

Applicable between -20°C (-4°F) and  $t_r$   
(see corresponding fan data)

##### Accessories

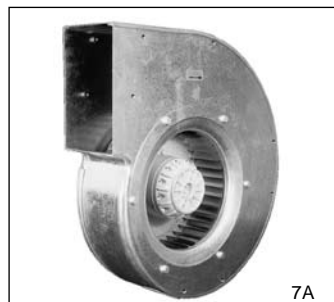
See rubric accessories

##### Requested order data

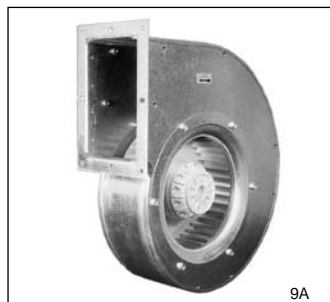
Article no., type, installation position

##### On request, for an extra charge

- Special voltages
- 50 Hz
- Capacitor for 1~ motors
- Special motor IP classes



RG..S without flange



RG..S with flange



RD..S without flange



RD..S with flange

# RG28S-4DK.4I.5L

article no.

without flange

460V 112 910

with flange

on request



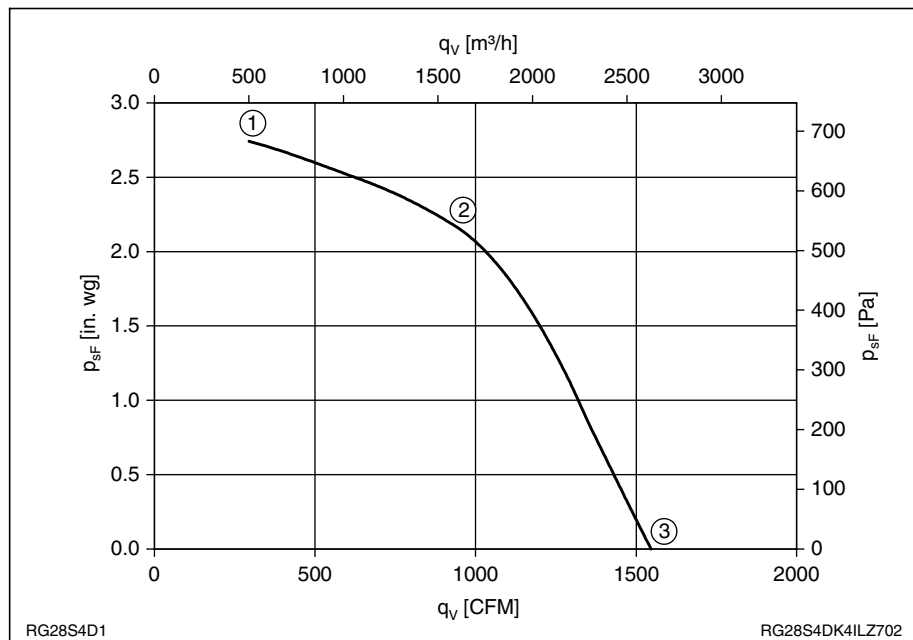
## Performance data

3~ 460V ±10% Y 60Hz IP54

Connection diagram 106XB

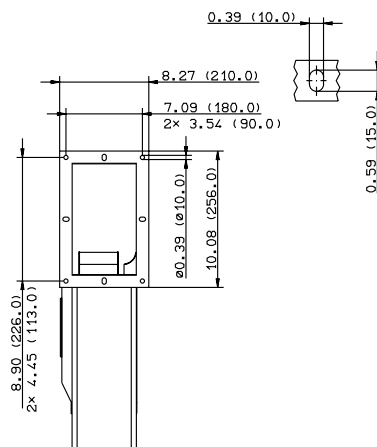
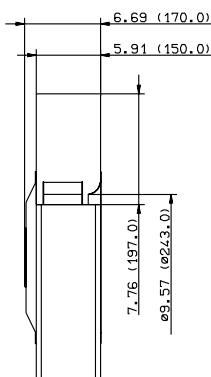
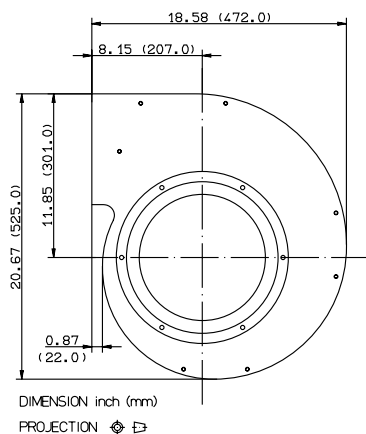
$P_1$	1.2	kW
$I$	1.85	A
$n$	1370	rpm
$I_A$	4.3	A
$\Delta I$	0	%
$t_R$	40/104	°C/°F
$m$	16/35	kg/lbs.

## Characteristic data



	U	I	P <sub>1</sub>	n	L <sub>WA</sub>
	V	A	W	rpm	dB
①		0.97	320	1700	
②	460	1.25	680	1570	82
③		1.85	1200	1370	86

$$p_{d2} = 5.7 \cdot 10^{-5} \cdot q_v^2$$



L-KL-1803/2- INCH

# RG28S-4EK.4I.5L

article no.

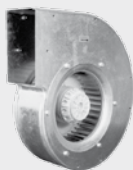
without flange

230V 112 911

115V 112 912

with flange

on request



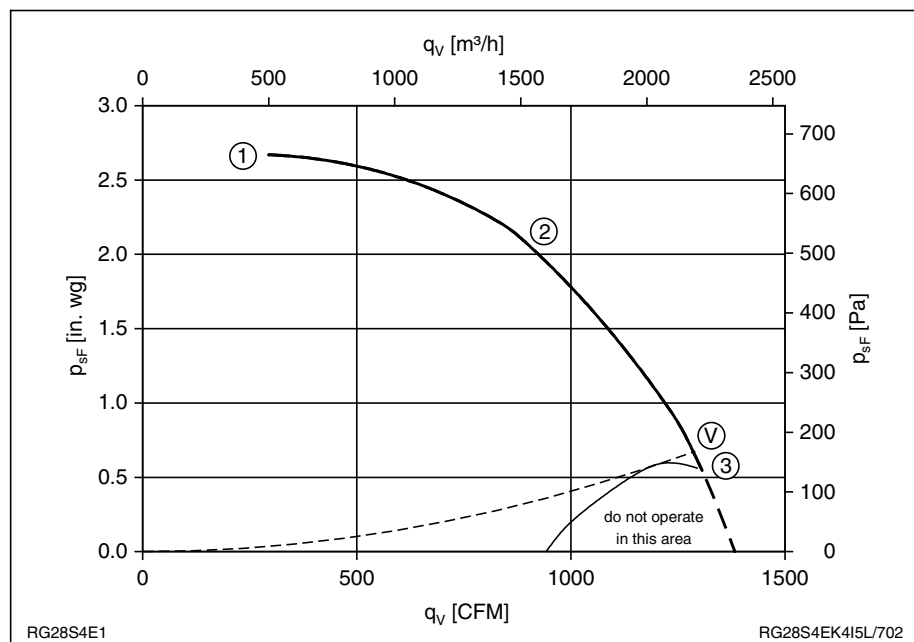
## Performance data

1~ 230V ±10% 60Hz IP54

Connection diagram 118XB

$P_1$	1.05	kW
$I$	4.6	A
$n$	1250	rpm
$I_A$	6.5	A
$\Delta I$	-	%
$C_{400V}$	14	$\mu F$
$t_R$	40/104	$^{\circ}C/^{\circ}F$
$p_{sF(min)}$ ③	0.6	in. wg
$m$	16/35	kg/lbs.

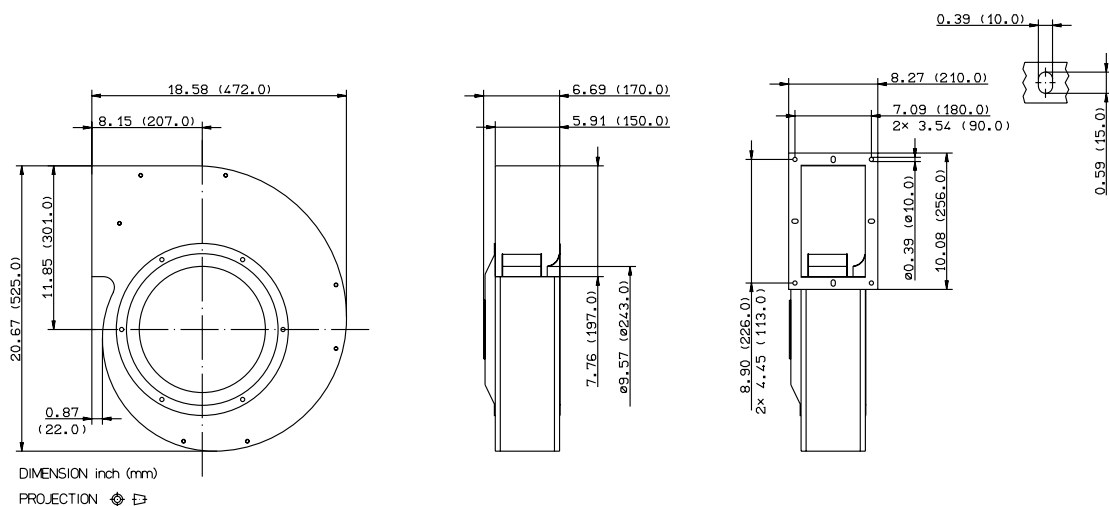
## Characteristic data



U	I	P <sub>1</sub>	n	L <sub>WA</sub>
V	A	W	rpm	dB
①	2.3	520	1690	
②	230	3.5	820	81
③	4.6	1050	1250	83

$$p_{d2} = 5.7 \cdot 10^{-5} \cdot q_v^2$$

	$P_1$ kW	$I$ A	$n$ rpm	$\Delta I$ %	$p_{sF (min)}$ in. wg
⑤	1.0	4.3	1080	10	0.7



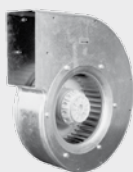
# RG31S-4DK.6F.3L

article no.  
without flange

460V 112 913

with flange

on request



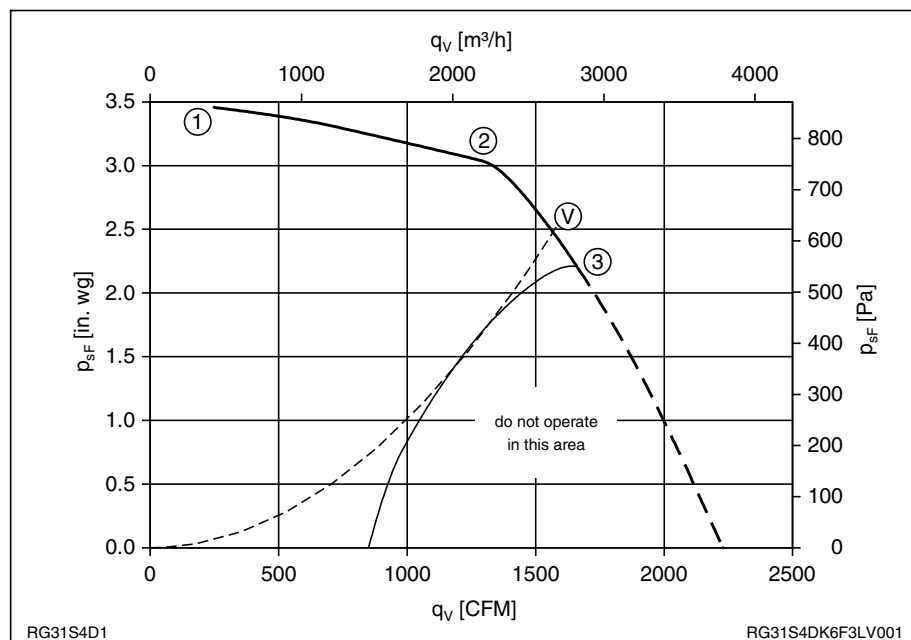
## Performance data

3~ 460V ±10% Y 60Hz IP54

Connection diagram 106XB

P <sub>1</sub>	1.9	kW
I	2.9	A
n	1560	rpm
I <sub>A</sub>	7.9	A
ΔI	-	%
t <sub>R</sub>	40/104	°C/°F
p <sub>sF(min)</sub> ③	2.2	in. wg
m	25/55	kg/lbs.

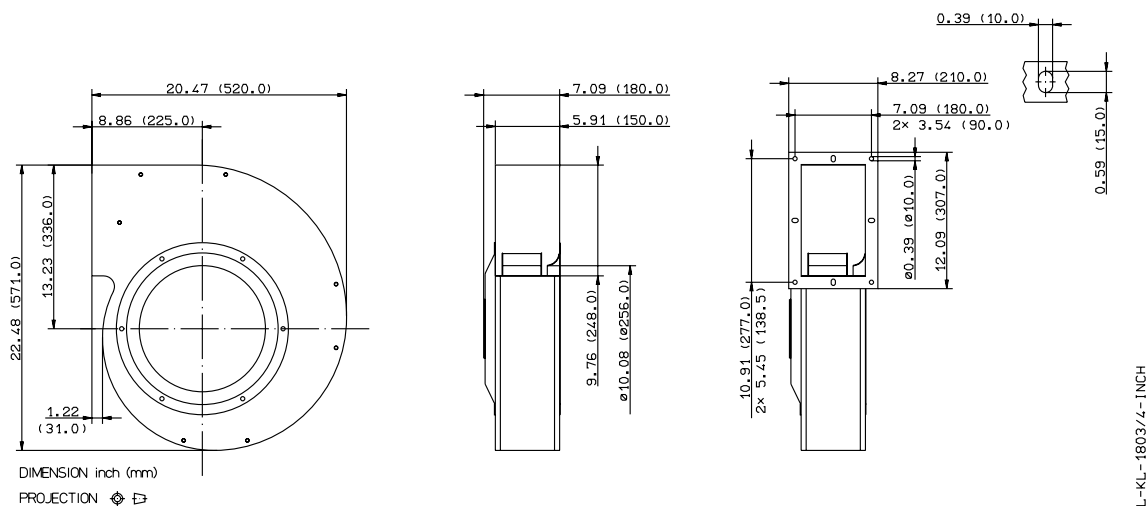
## Characteristic data



U	I	P <sub>1</sub>	n	L <sub>WA</sub>
V	A	W	rpm	dB
①	1.35	580	1750	
②	460	2.3	1400	87
③	2.9	1850	1560	86

$$p_{d2} = 3.7 \cdot 10^{-5} \cdot q_v^2$$

	P <sub>1</sub> kW	I A	n rpm	ΔI %	p <sub>sF (min)</sub> in. wg
⑤	1.6	2.6	1590	15	2.6



# RG31S-4EK.6F.3L

article no.

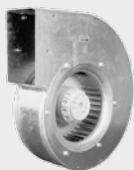
without flange

230V 112 914

115V 112 915

with flange

on request



## Performance data

1~ 230V ±10% 60Hz IP54

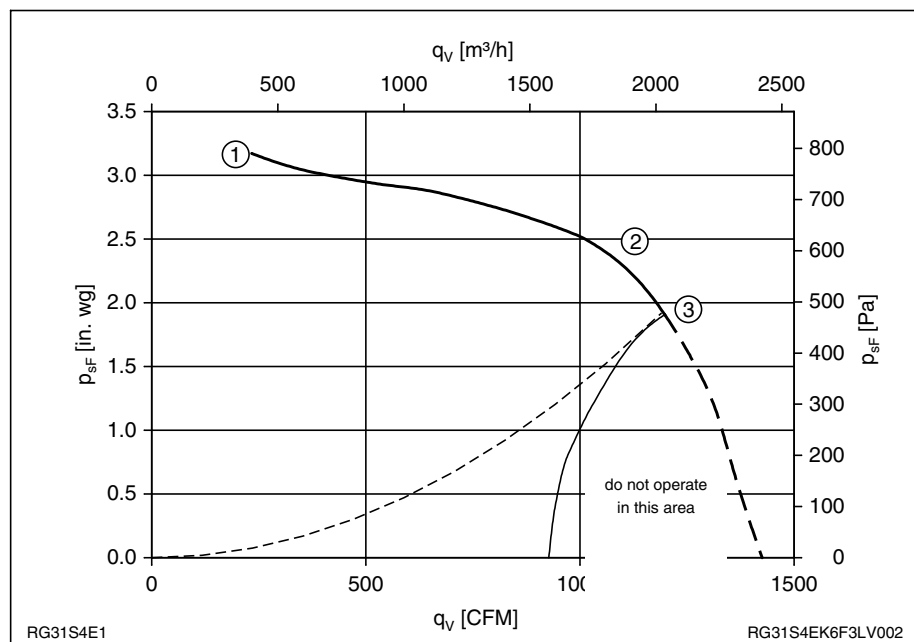
Connection diagram 230V 118XB

115V 104XB\*

$P_1$	1.25	kW
$I$	5.5	A
$n$	1360	rpm
$I_A$	7.4	A
$\Delta I$	0	%
$C_{400V}$	20	$\mu F$
$t_R$	40/104	$^{\circ}C/^{\circ}F$
$p_{sF(min)}$ ③	1.9	in. wg
$m$	25/55	kg/lbs.

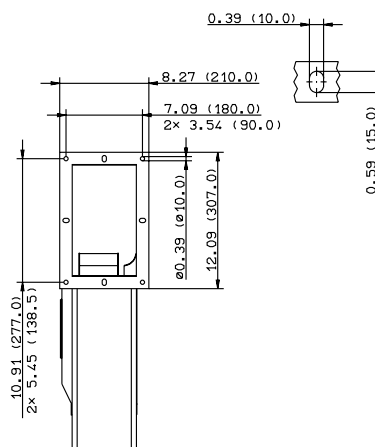
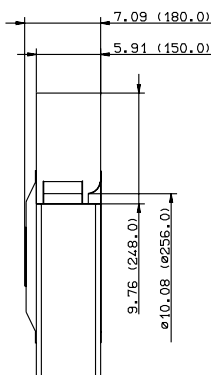
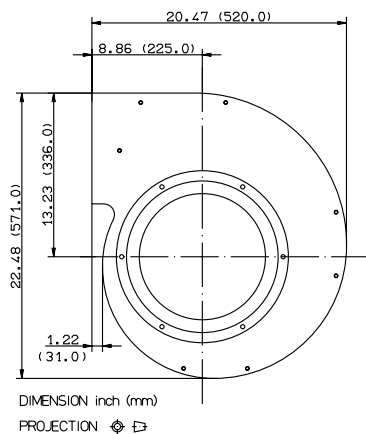
\*Thermal contact (TB) must not be connected in series with the winding.

## Characteristic data



U	I	P <sub>1</sub>	n	L <sub>WA</sub>
V	A	W	rpm	dB
①	3.9	860	1690	
②	5.1	1150	1480	85
③	5.5	1250	1360	85

$$p_{d2} = 3.7 \cdot 10^{-5} \cdot q_v^2$$



L-KL-1803/4-INCH



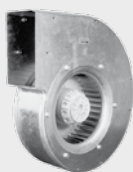
# RG35S-4DK.6N.2L

article no.  
without flange

460V 112 916

with flange

on request



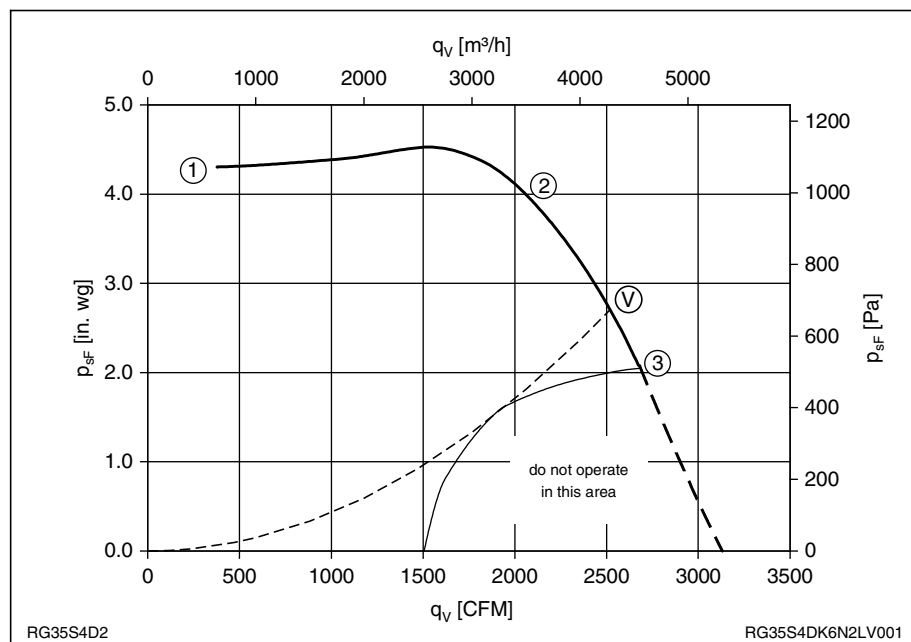
## Performance data

3~ 460V ±10% Y 60Hz IP54

Connection diagram 106XB

P <sub>1</sub>	3.7	kW
I	5.4	A
n	1570	rpm
I <sub>A</sub>	22	A
ΔI	-	%
t <sub>R</sub>	40/104	°C/°F
p <sub>sF(min)</sub> ③	2.0	in. wg
m	35/77	kg/lbs.

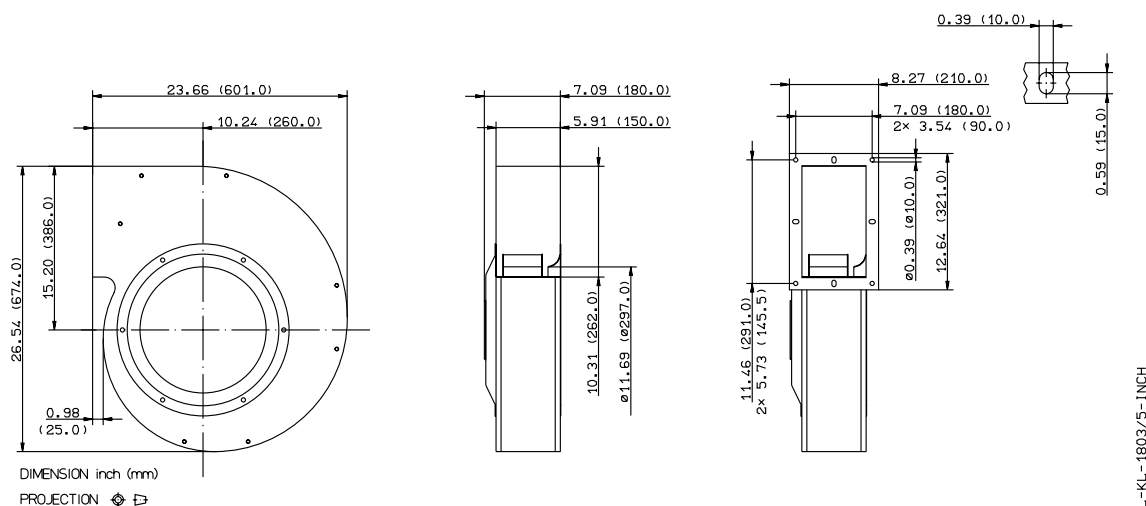
## Characteristic data



U	I	P <sub>1</sub>	n	L <sub>WA</sub>
V	A	W	rpm	dB
①	2.2	720	1760	
②	460	3.7	2300	1660 89
③	5.4	3700	1570	93

$$p_{d2} = 3.1 \cdot 10^{-5} \cdot q_v^2$$

	P <sub>1</sub> kW	I A	n rpm	ΔI %	p <sub>sF (min)</sub> in. wg
⑤	3500	5.1	1580	10	2.7



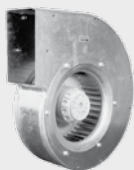
# RG35S-4EK.6N.2L

article no.  
without flange

230V 112 917

with flange

on request



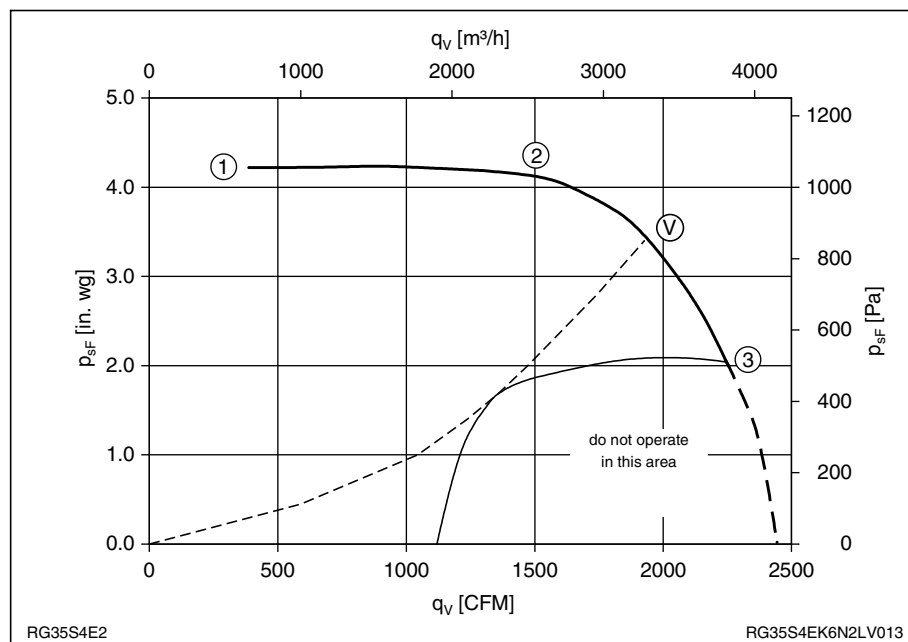
## Performance data

1~ 230V ±10% 60Hz IP10

Connection diagram 104XB

$P_1$	3.3	kW
$I$	14.5	A
$n$	1430	rpm
$I_A$	29	A
$\Delta I$	-	%
$C_{400V}$	35	μF
$t_R$	40/104	°C/°F
$p_{sF(min)}$ ③	2.0	in. wg
$m$	35/77	kg/lbs.

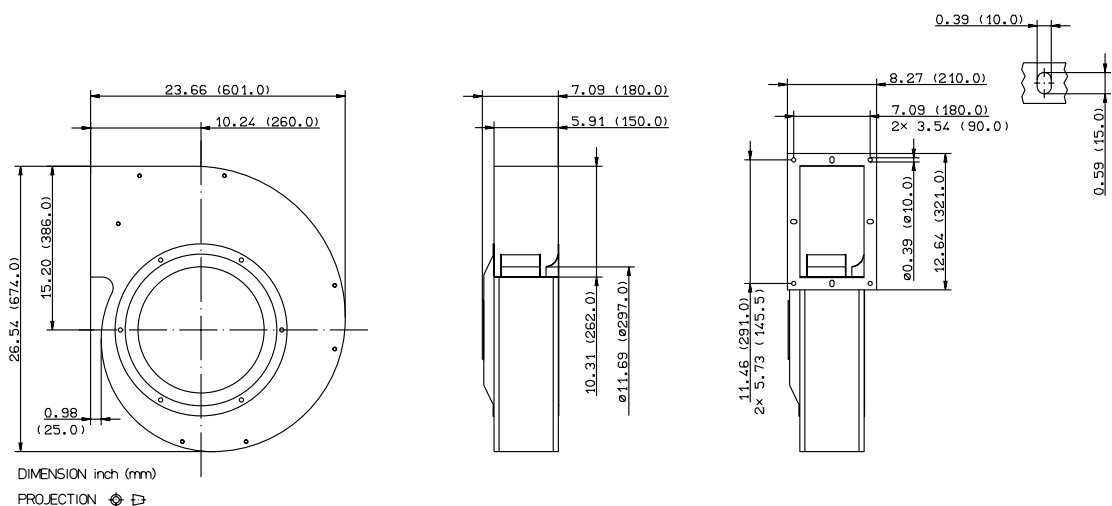
## Characteristic data



U	I	P <sub>1</sub>	n	L <sub>WA</sub>
V	A	W	rpm	dB
①	4.2	940	1750	
②	230	8.2	1870	91
③	14.5	3300	1430	92

$$p_{d2} = 3.1 \cdot 10^{-5} \cdot q_v^2$$

	$P_1$ kW	$I$ A	$n$ rpm	$\Delta I$ %	$p_{sF (min)}$ in. wg
①	2.6	11.5	1580	25	3.4







# RD20S-4EW.4I.2L

article no.

without flange

230V 112 865

115V 112 866

with flange

on request



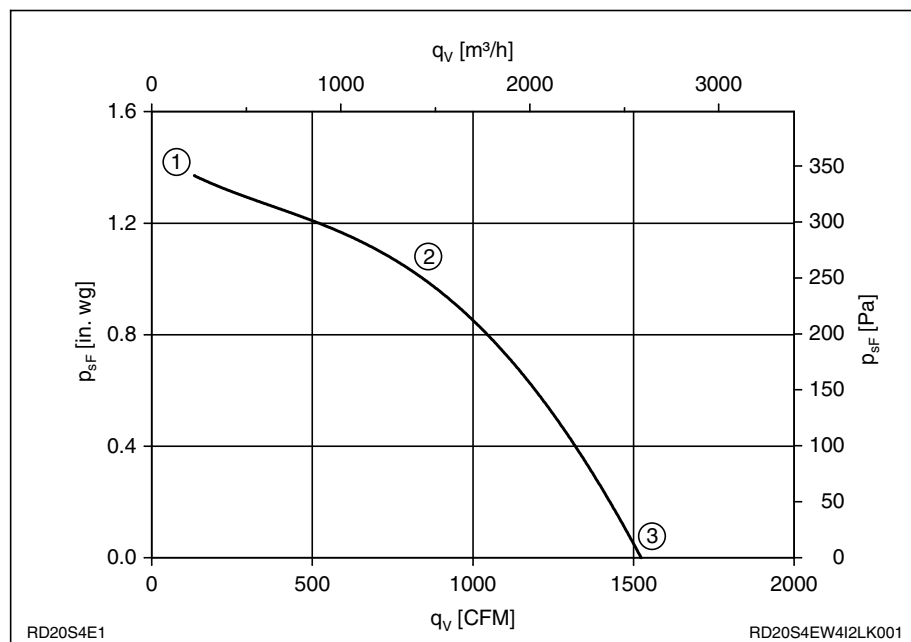
## Performance data

1~ 230V ±10% 60Hz IP54

Connection diagram 118XB

$P_1$	0.70	kW
$I$	3.0	A
$n$	1260	rpm
$I_A$	5.6	A
$\Delta I$	0	%
$C_{400V}$	10	$\mu F$
$t_R$	40/104	$^{\circ}C/^{\circ}F$
$m$	16/35	kg/lbs.

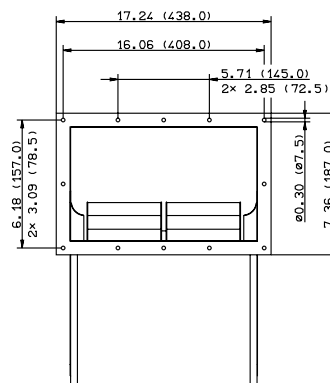
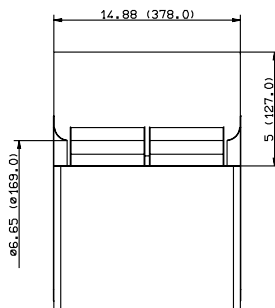
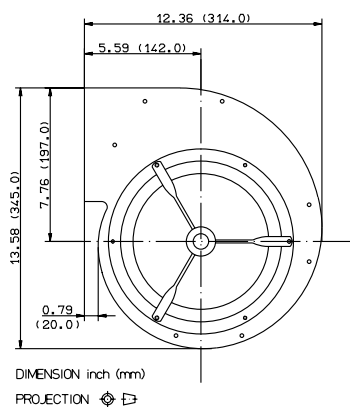
## Characteristic data



	U	I	$P_1$	$n$	$L_{WA}$
	V	A	W	rpm	dB
①		2.4	510	1620	
②	230	2.6	590	1520	72
③		3.0	700	1260	77

$$p_{d2} = 2.2 \cdot 10^{-5} \cdot q_v^2$$

## Scroll made in aluminium



L-KL-1831/1-INCH

# RD25S-4DW.4I.AL

article no.

without flange

460V 112 867

with flange

on request



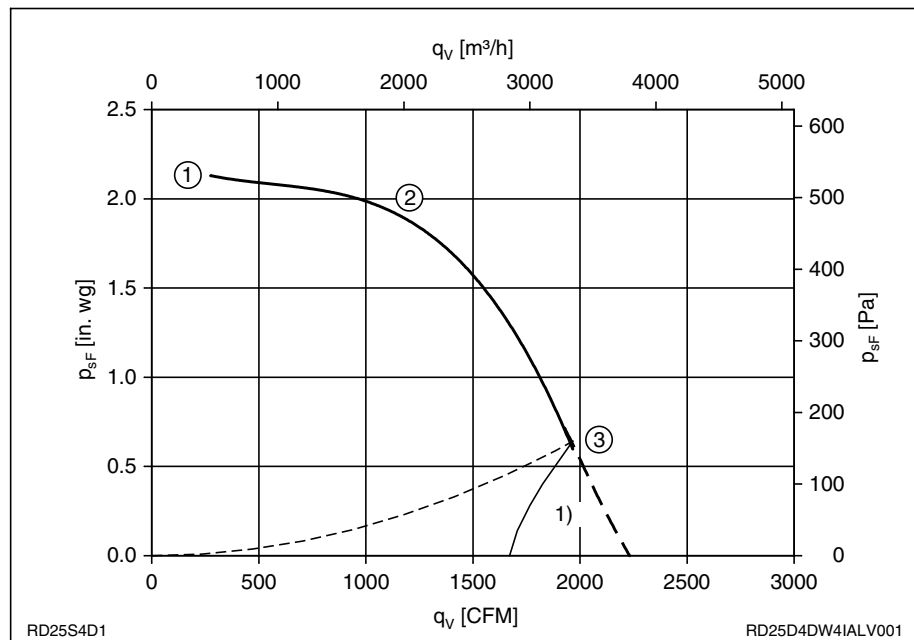
## Performance data

3~ 460V ±10% Y 60Hz IP54

Connection diagram 106XB

$P_1$	1.2	kW
$I$	1.8	A
$n$	1410	rpm
$I_A$	4.7	A
$\Delta I$	0	%
$t_R$	40/104	°C/°F
$p_{sF(min)}$ ③	0.6	in. wg
$m$	16/35	kg/lbs.

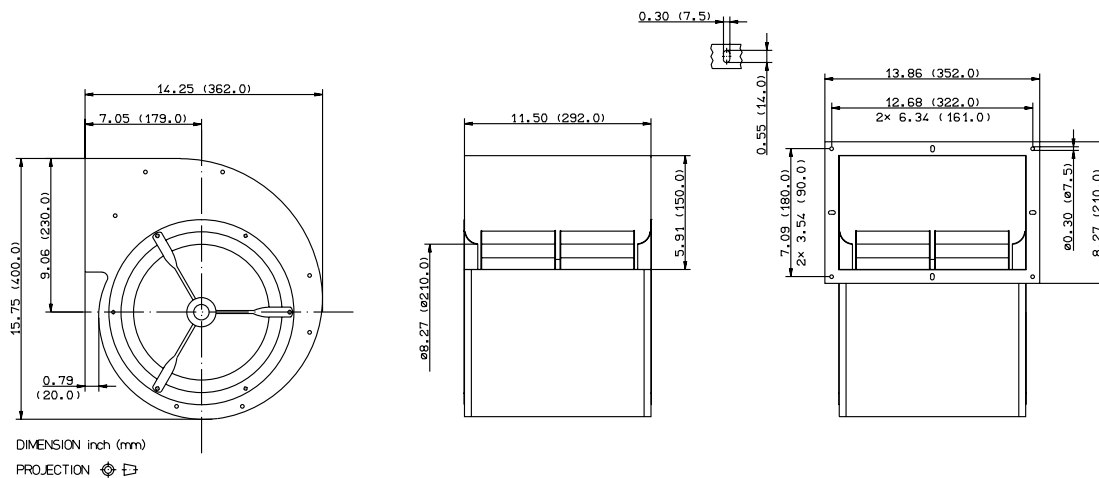
## Characteristic data



	U	I	P <sub>1</sub>	n	L <sub>WA</sub>
	V	A	W	rpm	dB
①		1.0	320	1730	
②	460	1.3	680	1610	80
③		1.8	1200	1410	87

1) do not operate in this area

$$p_{d2} = 2.5 \cdot 10^{-5} \cdot q_v^2$$



# RD25S-4EW.4I.AL

article no.

without flange

230V 112 868

115V 112 869

with flange

on request



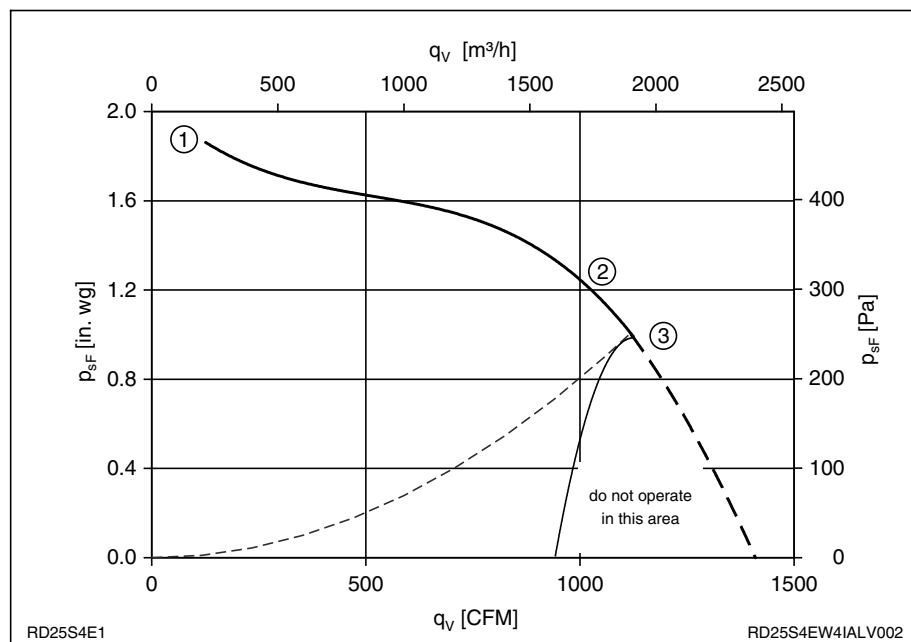
## Performance data

1~ 230V ±10% 60Hz IP54

Connection diagram 118XB

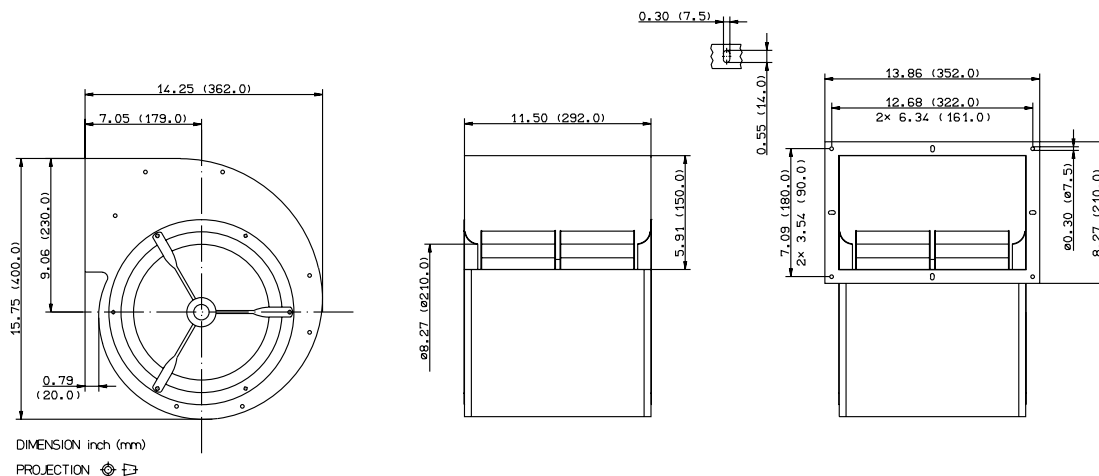
$P_1$	0.71	kW
$I$	3.1	A
$n$	1190	rpm
$I_A$	3.6	A
$\Delta I$	0	%
$C_{400V}$	10	$\mu F$
$t_R$	40/104	$^{\circ}C/^{\circ}F$
$p_{sF(min)}$ ③	0.9	in. wg
$m$	16/35	kg/lbs.

## Characteristic data



	U	I	$P_1$	n	$L_{WA}$
	V	A	W	rpm	dB
①		2.2	490	1600	
②	230	3.0	680	1290	75
③		3.1	710	1190	82

$$p_{d2} = 2.5 \cdot 10^{-5} \cdot q_v^2$$



L-KL-1805/1-INCH

# RD25S-4DW.4N.2L

article no.

without flange

460V 112 870

with flange

on request



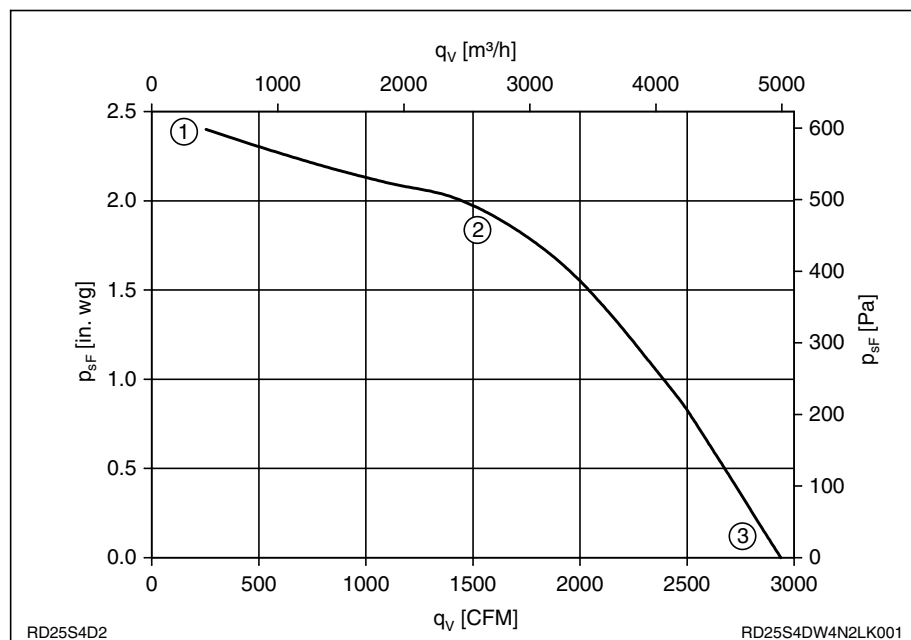
## Performance data

3~460V ±10% Y 60Hz IP54

Connection diagram 106XB

$P_1$	1.75	kW
$I$	2.7	A
$n$	1360	rpm
$I_A$	7.2	A
$\Delta I$	0	%
$t_R$	40/104	°C/°F
$m$	19/42	kg/lbs.

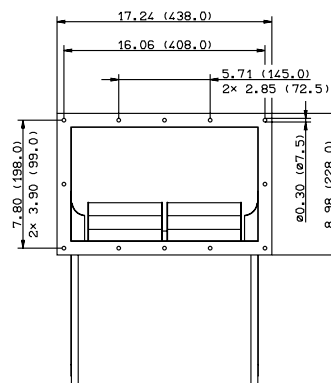
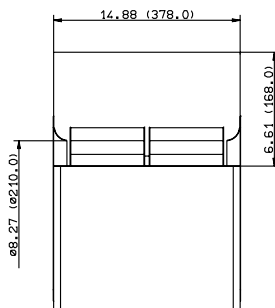
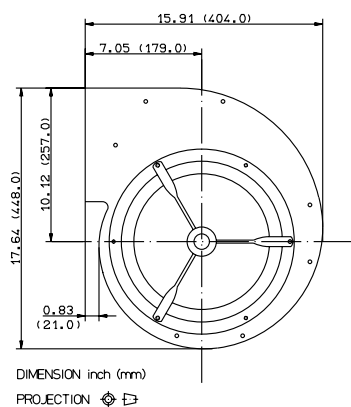
## Characteristic data



	U	I	P <sub>1</sub>	n	L <sub>WA</sub>
	V	A	W	rpm	dB
①		1.25	440	1690	
②	460	1.85	1100	1570	81
③		2.7	1750	1360	85

$$p_{d2} = 1.3 \cdot 10^{-5} \cdot q_v^2$$

## Scroll made in aluminium



L-KL-1831/2-INCH

# RD25S-4EW.4R.2L

article no.

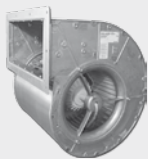
without flange

with flange

230V 112 871

on request

115V 112 872



## Performance data

1~ 230V ±10% 60Hz IP54

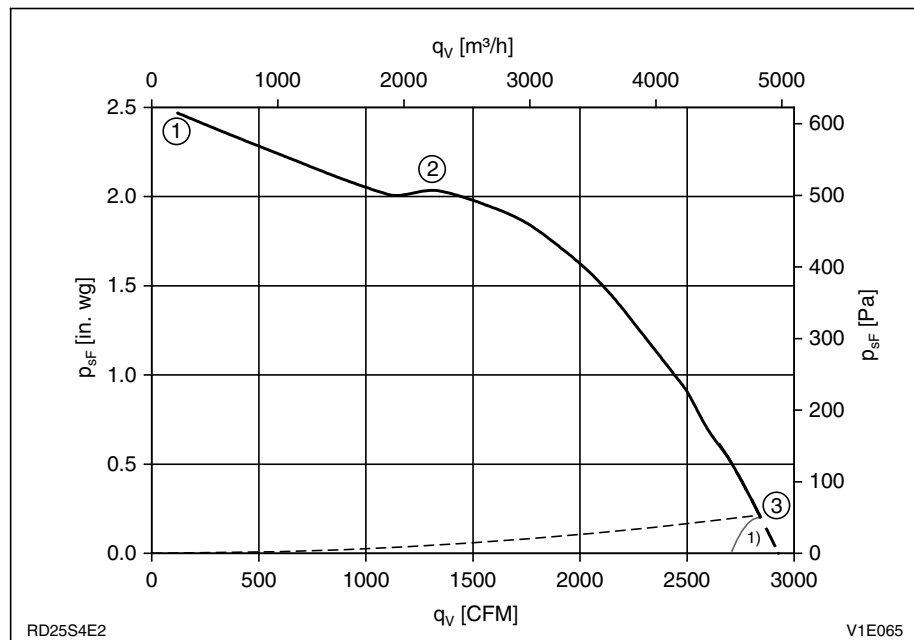
Connection diagram 230V 118XB

115V 104XB\*

$P_1$	1.8	kW
$I$	7.6	A
$n$	1330	rpm
$I_A$	11.5	A
$\Delta I$	0	%
$C_{400V}$	20	$\mu F$
$t_R$	40/104	$^{\circ}C/^{\circ}F$
$p_{sF(min)}$ ③	0.2	in. wg
$m$	23/51	kg/lbs.

\*Thermal contact (TB) must not be connected in series with the winding.

## Characteristic data

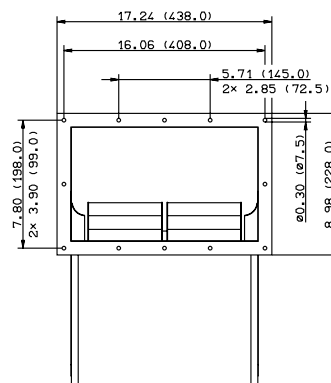
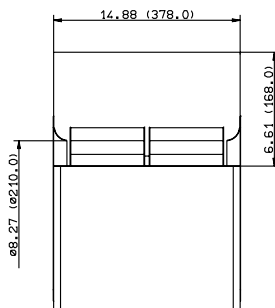
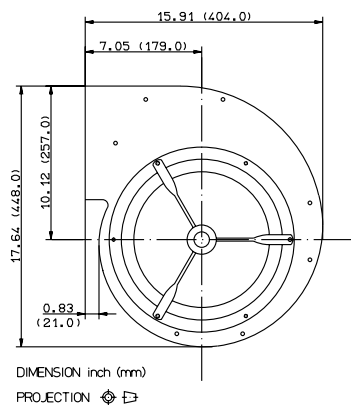


U	I	P <sub>1</sub>	n	L <sub>WA</sub>
V	A	W	rpm	dB
①	3.2	730	1690	
②	230	5.9	1450	80
③	7.6	1800	1330	83

1) do not operate in this area

$$p_{d2} = 1.3 \cdot 10^{-5} \cdot q_v^2$$

## Scroll made in aluminium



L-KL-1831/2-1NCH

# RD28S-4DW.4R.2L

article no.

without flange

460V 112 873

with flange

on request



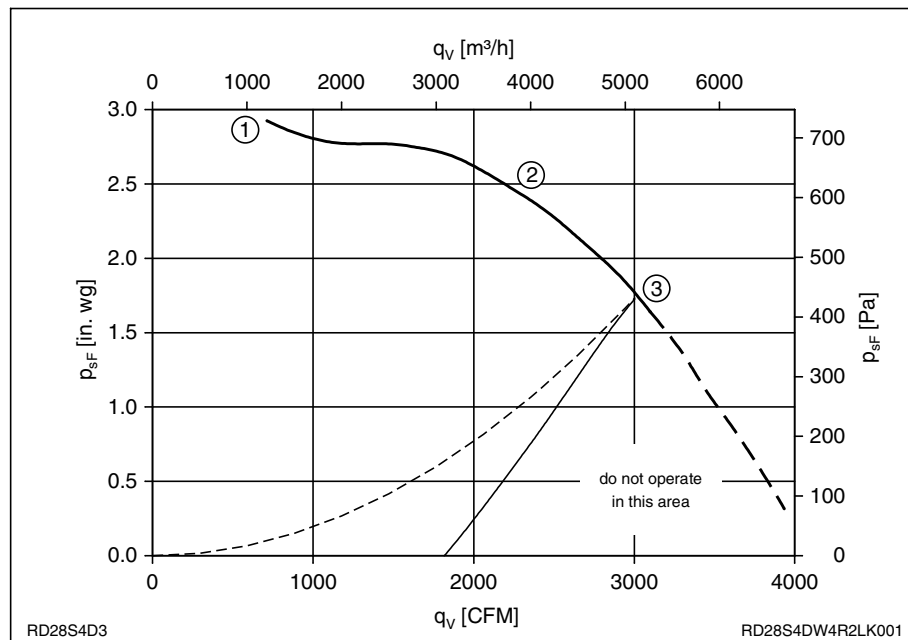
## Performance data

3~ 460V ±10% Y 60Hz IP54

Connection diagram 106XB

$P_1$	2.2	kW
$I$	3.3	A
$n$	1420	rpm
$I_A$	11	A
$\Delta I$	0	%
$t_R$	40/104	°C/°F
$p_{sF(min)}$ ③	1.6	in. wg
$m$	24/53	kg/lbs.

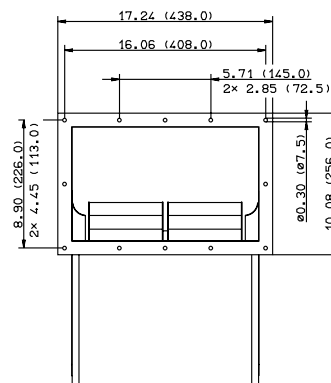
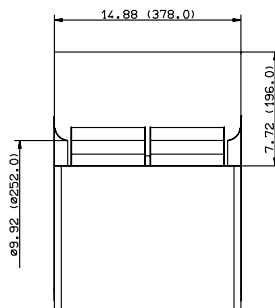
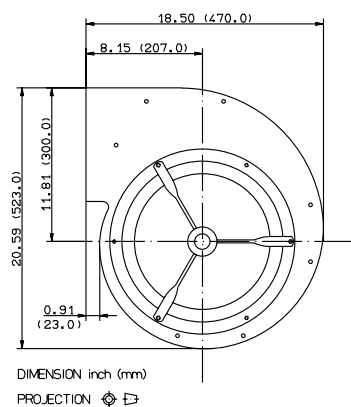
## Characteristic data



	U	I	$P_1$	n	$L_{WA}$
	V	A	W	rpm	dB
①		1.75	740	1730	
②	460	2.9	1850	1500	84
③		3.3	2200	1420	85

$$p_{d2} = 9.2 \cdot 10^{-6} \cdot q_v^2$$

## Scroll made in aluminium



L-KL-1831/3-1 INCH



# RD28S-4EW.4R.2L

article no.

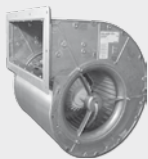
without flange

with flange

230V 112 874

on request

115V 112 875



## Performance data

1~ 230V ±10% 60Hz IP10

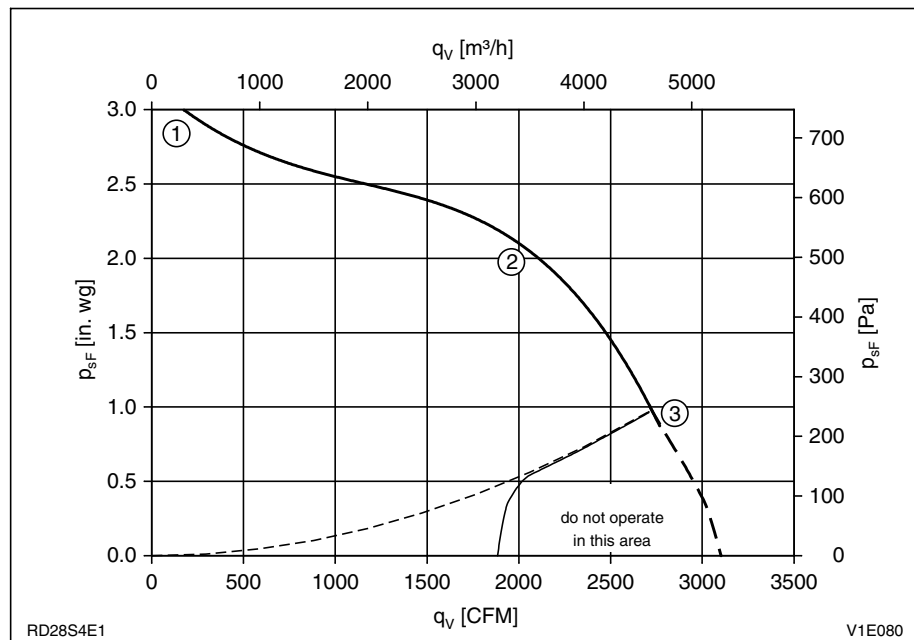
Connection diagram 230V 118XB

115V 104XB\*

$P_1$	2.1	kW
$I$	8.8	A
$n$	1150	rpm
$I_A$	12.5	A
$\Delta I$	0	%
$C_{400V}$	20	$\mu F$
$t_R$	40/104	$^{\circ}C/^{\circ}F$
$p_{sF(min)}$ ③	1.0	in. wg
$m$	24/53	kg/lbs.

\*Thermal contact (TB) must not be connected in series with the winding.

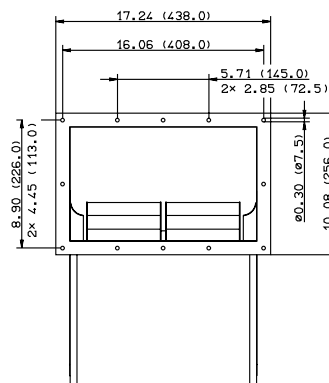
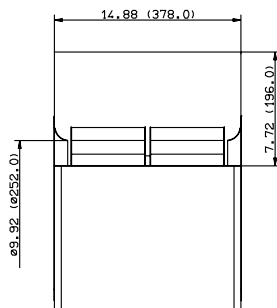
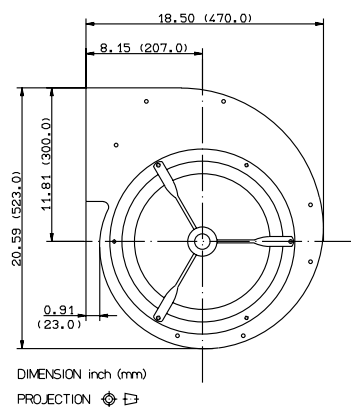
## Characteristic data



U	I	$P_1$	n	$L_{WA}$
V	A	W	rpm	dB
①	3.8	900	1640	
②	230	6.5	1550	81
③	8.8	2100	1150	83

$$p_{d2} = 9.2 \cdot 10^{-6} \cdot q_v^2$$

## Scroll made in aluminium



L-KL-1831/3-1 INCH

# RD28S-4DW.4R.AL

article no.

without flange

460V 112 876

with flange

on request



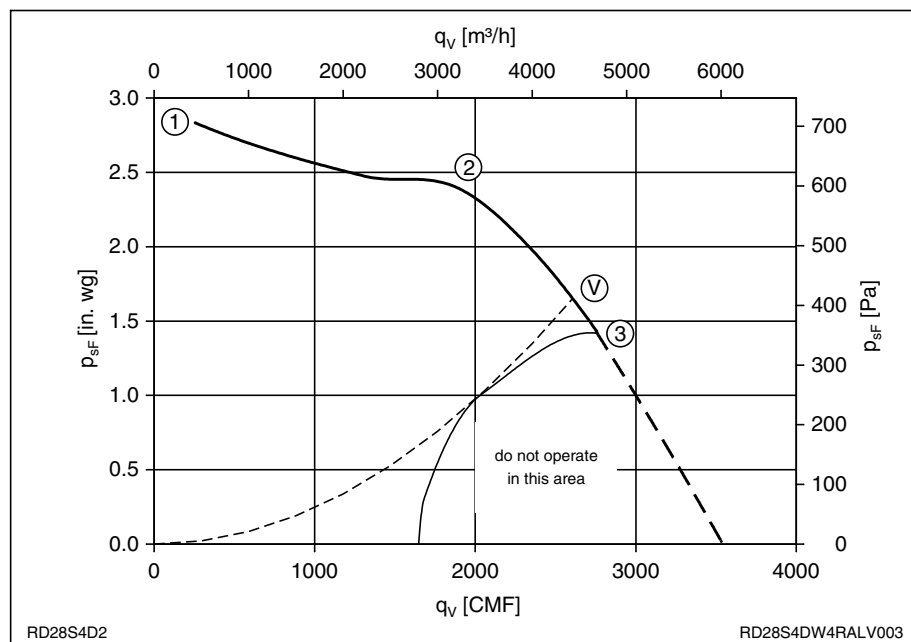
## Performance data

3~ 460V ±10% Y 60Hz IP54

Connection diagram 106XB

$P_1$	2.3	kW
$I$	3.4	A
$n$	1420	rpm
$I_A$	9.7	A
$\Delta I$	5	%
$t_R$	40/104	°C/°F
$p_{sF(min)}$ ③	1.4	in. wg
$m$	25/55	kg/lbs.

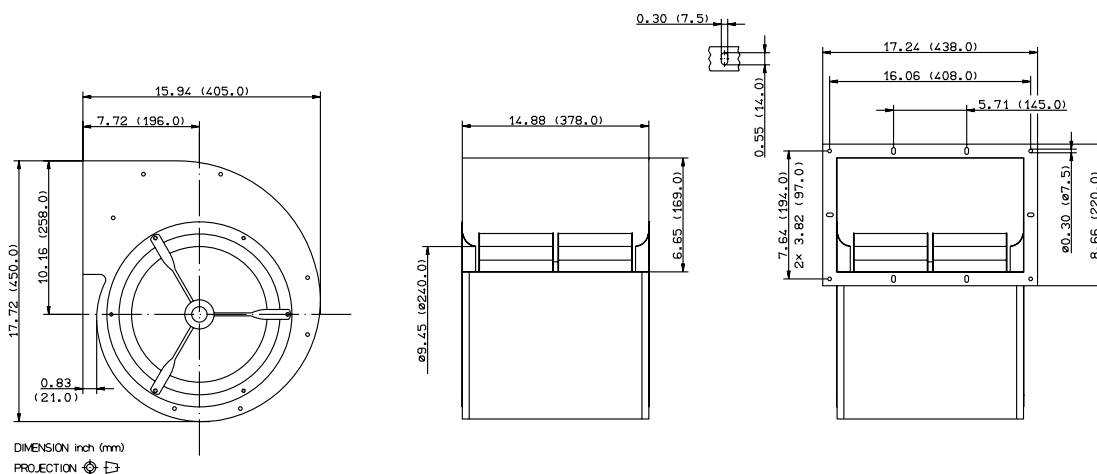
## Characteristic data



U	I	P <sub>1</sub>	n	L <sub>WA</sub>
V	A	W	rpm	dB
①	1.55	660	1710	
②	460	2.8	1900	83
③	3.4	2300	1420	83

$$p_{d2} = 1.15 \cdot 10^{-5} \cdot q_v^2$$

	$P_1$ kW	$I$ A	$n$ rpm	$\Delta I$ %	$p_{sF (min)}$ in. wg
①	2.2	3.2	1450	5	1.6



L-KL-1838/2- INCH

# RD28S-4EW.4R.AL

article no.

without flange

with flange

230V 112 877

on request

115V 112 878



## Performance data

1~ 230V ±10% 60Hz IP10

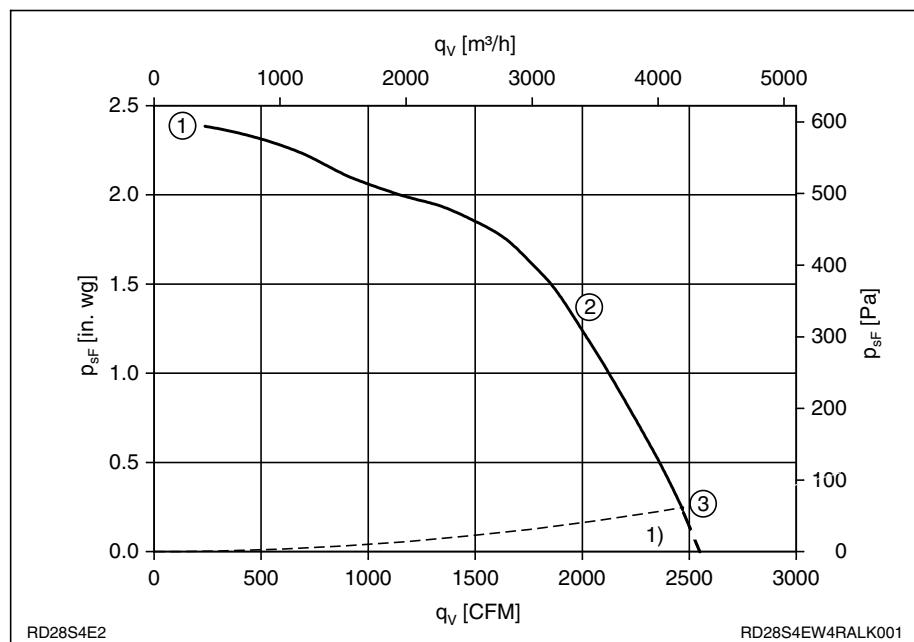
Connection diagram 230V 118XB

115V 104XB\*

$P_1$	1.9	kW
$I$	8.3	A
$n$	1000	rpm
$I_A$	10.5	A
$\Delta I$	0	%
$C_{400V}$	25	$\mu F$
$t_R$	40/104	$^{\circ}C/^{\circ}F$
$p_{sF(min)}$ ③	0.2	in. wg
$m$	25/55	kg/lbs.

\*Thermal contact (TB) must not be connected in series with the winding.

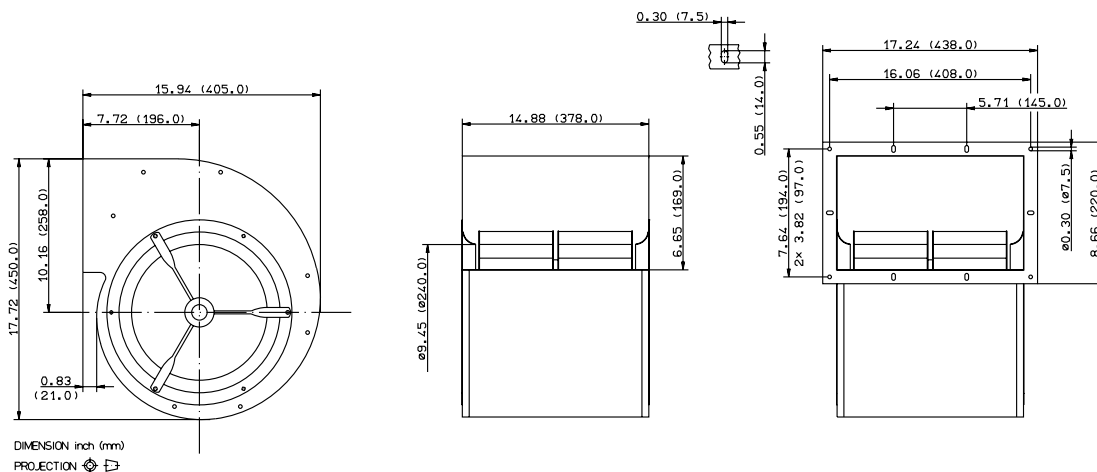
## Characteristic data



U	I	P <sub>1</sub>	n	L <sub>WA</sub>
V	A	W	rpm	dB
①	5.8	1250	1580	
②	230	7.2	1650	78
③	8.3	1900	1000	81

1) do not operate in this area

$$p_{d2} = 1.15 \cdot 10^{-5} \cdot q_v^2$$



# RD31S-4DW.6Q.2L

article no.

without flange

460V 112 879

with flange

on request



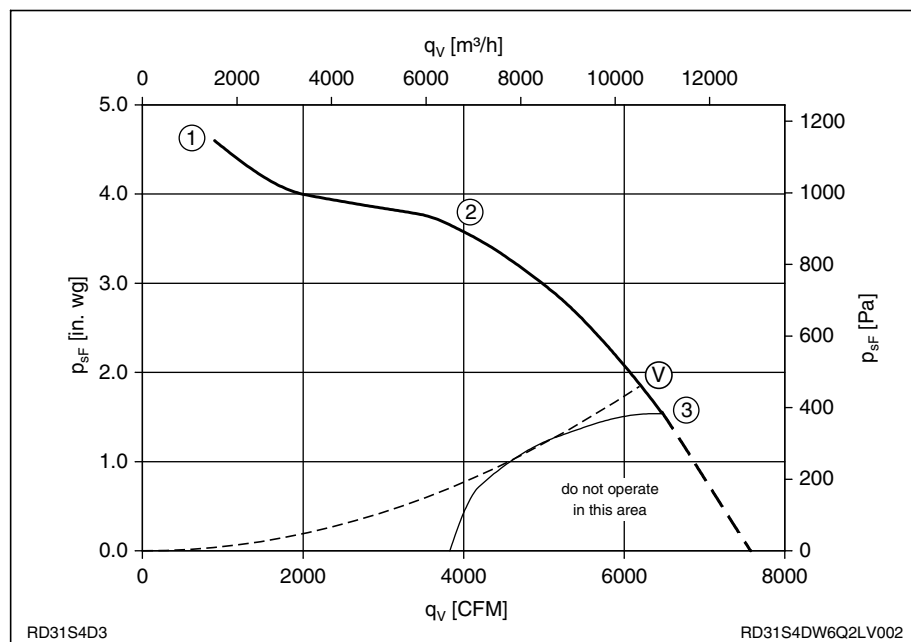
## Performance data

3~ 460V ±10% Y 60Hz IP10

Connection diagram 106XB

$P_1$	7.1	kW
$I$	10	A
$n$	1510	rpm
$I_A$	40	A
$\Delta I$	-	%
$t_R$	40/104	°C/°F
$p_{sF(min)}$ ③	1.53	in. wg
$m$	43/95	kg/lbs.

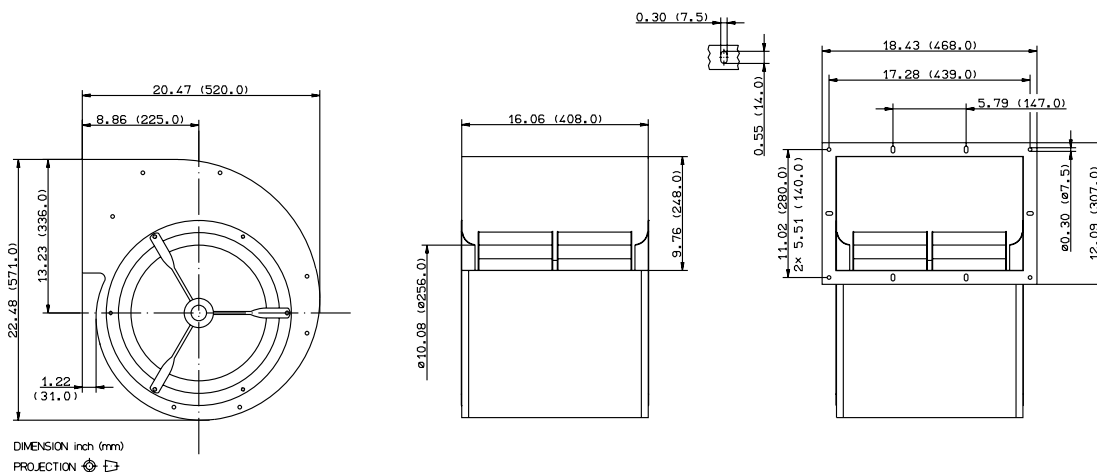
## Characteristic data



U	I	$P_1$	n	$L_{WA}$
V	A	W	rpm	dB
①	3.7	1550	1760	
②	460	6.1	4000	1660 91
③	10	7100	1510	96

$$p_{d2} = 4,5 \cdot 10^{-6} \cdot q_v^2$$

	$P_1$ kW	$I$ A	$n$ rpm	$\Delta I$ %	$p_{sF (min)}$ in. wg
⑤	6.6	9.4	1530	5	460



L-KL-1838/5-INCH

# RD31S-4DW.6T.AL

article no.  
without flange

460V 112 880

with flange

on request



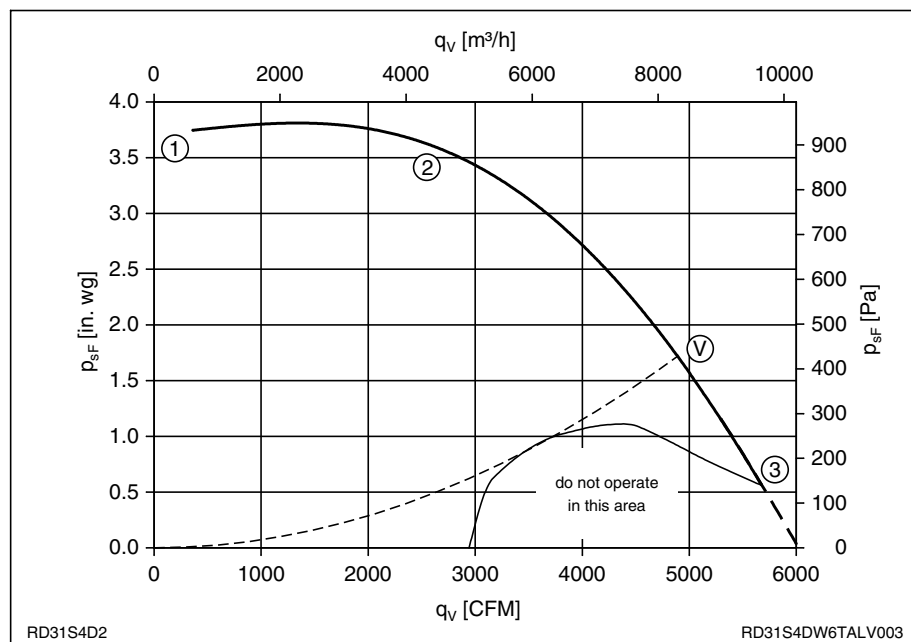
## Performance data

3~ 460V ±10% Y 60Hz IP54

Connection diagram 106XB

P <sub>1</sub>	5.9	kW
I	8.8	A
n	1610	rpm
I <sub>A</sub>	42	A
ΔI	-	%
t <sub>R</sub>	40/104	°C/°F
p <sub>sF(min)</sub> ③	0.6	in. wg
m	48/106	kg/lbs.

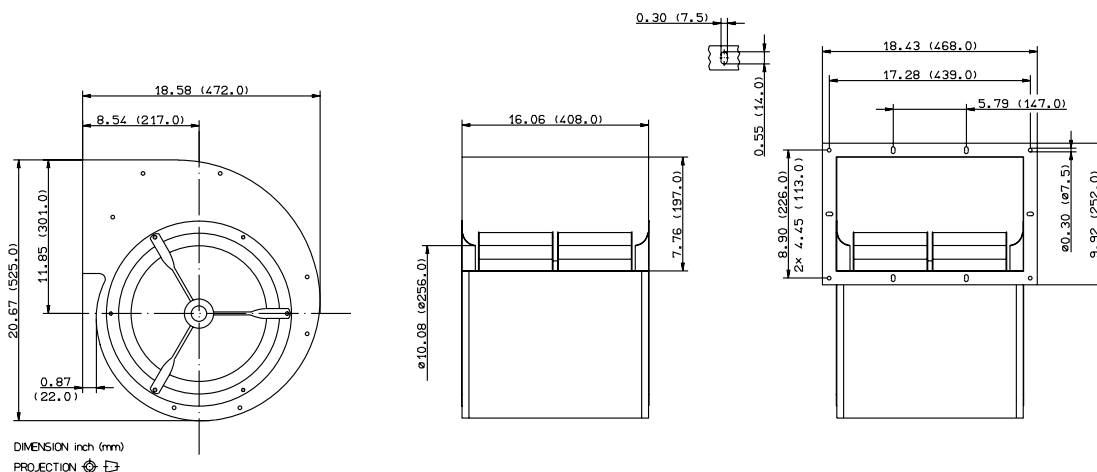
## Characteristic data



U	I	P <sub>1</sub>	n	L <sub>WA</sub>
V	A	W	rpm	dB
①	3.9	970	1780	
②	460	5.2	2700	91
③	8.8	5900	1610	97

$$p_{d2} = 8.1 \cdot 10^{-6} \cdot q_v^2$$

	P <sub>1</sub> kW	I A	n rpm	ΔI %	p <sub>sF (min)</sub> in. wg
①	4.8	7.5	1650	20	1.7



# RD35S-4DW.6T.BL

article no.

without flange

460V 112 881

with flange

on request



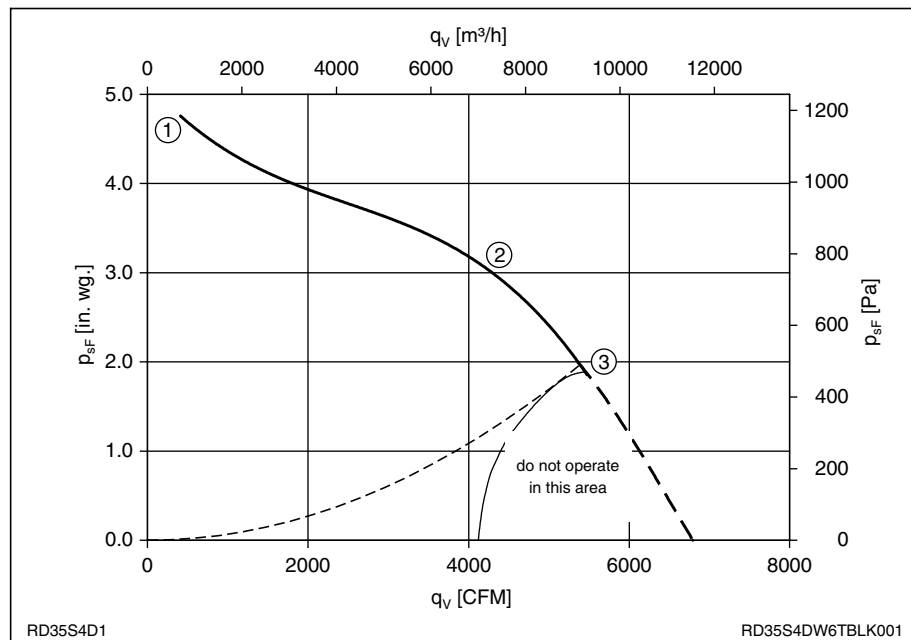
## Performance data

3~ 460V ±10% Δ 60Hz IP10

Connection diagram 106XB

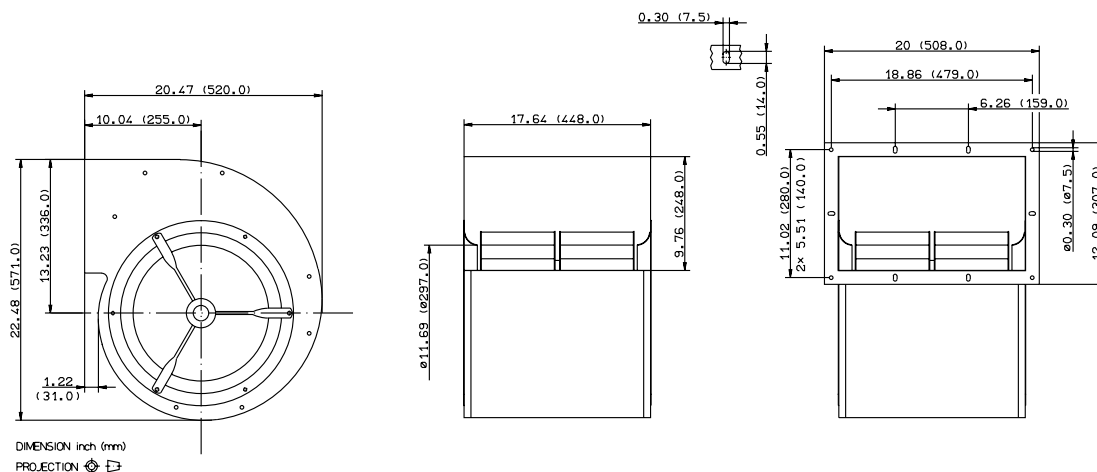
P <sub>1</sub>	5.9	kW
I	8.2	A
n	1220	rpm
I <sub>A</sub>	18	A
ΔI	0	%
t <sub>R</sub>	40/104	°C/°F
p <sub>sF(min)</sub> ③	1.9	in. wg
m	52/114	kg/lbs.

## Characteristic data



U	I	P <sub>1</sub>	n	L <sub>WA</sub>
V	A	W	rpm	dB
①	2.2	1300	1700	
②	460	5.9	4300	1420 88
③	8.2	5900	1220	91

$$p_{d2} = 3.7 \cdot 10^{-6} \cdot q_v^2$$



# RD40S-4DW.7W.AL

article no.  
without flange

460V 112 882

with flange

on request



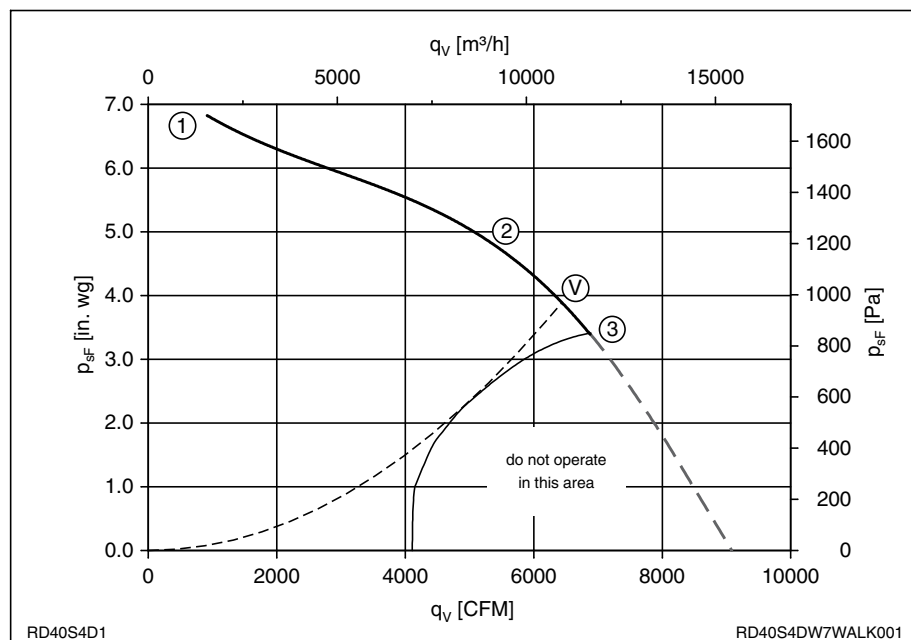
## Performance data

3~ 460V ±10% Δ 60Hz IP54

Connection diagram 106XB

P <sub>1</sub>	9.8	kW
I	13.5	A
n	1480	rpm
I <sub>A</sub>	49	A
Δ I	-	%
t <sub>R</sub>	40/104	°C/°F
p <sub>sF(min)</sub> ③	3.4	in. wg
m	82/180	kg/lbs.

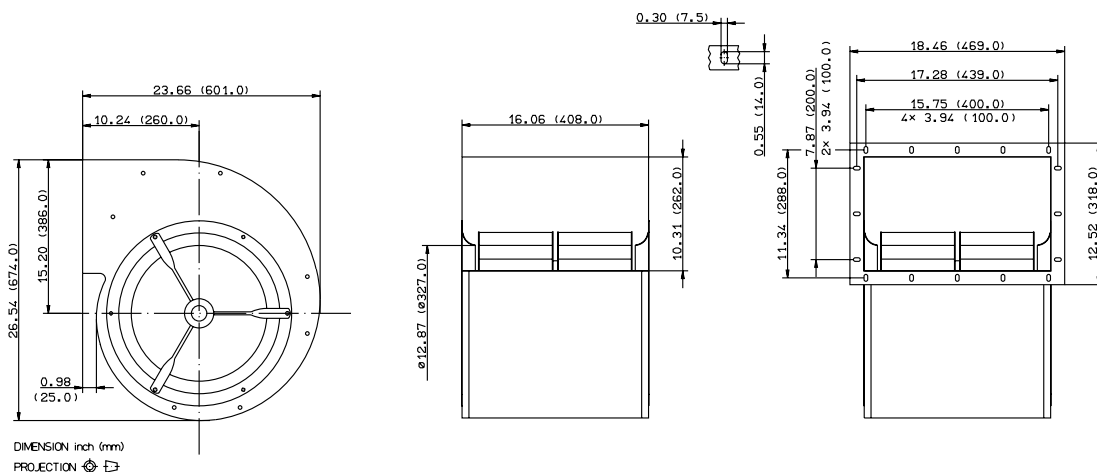
## Characteristic data



U	I	P <sub>1</sub>	n	L <sub>WA</sub>
V	A	W	rpm	dB
①	5.4	3000	1710	
②	460	10	7000	1580 95
③	13.5	9800	1480	96

$$p_{d2} = 4.0 \cdot 10^{-6} \cdot q_v^2$$

	P <sub>1</sub> kW	I A	n rpm	Δ I %	p <sub>sF (min)</sub> in. wg
①	9.1	12.5	1460	10	3.9



L-KL-1839/3- INCH