



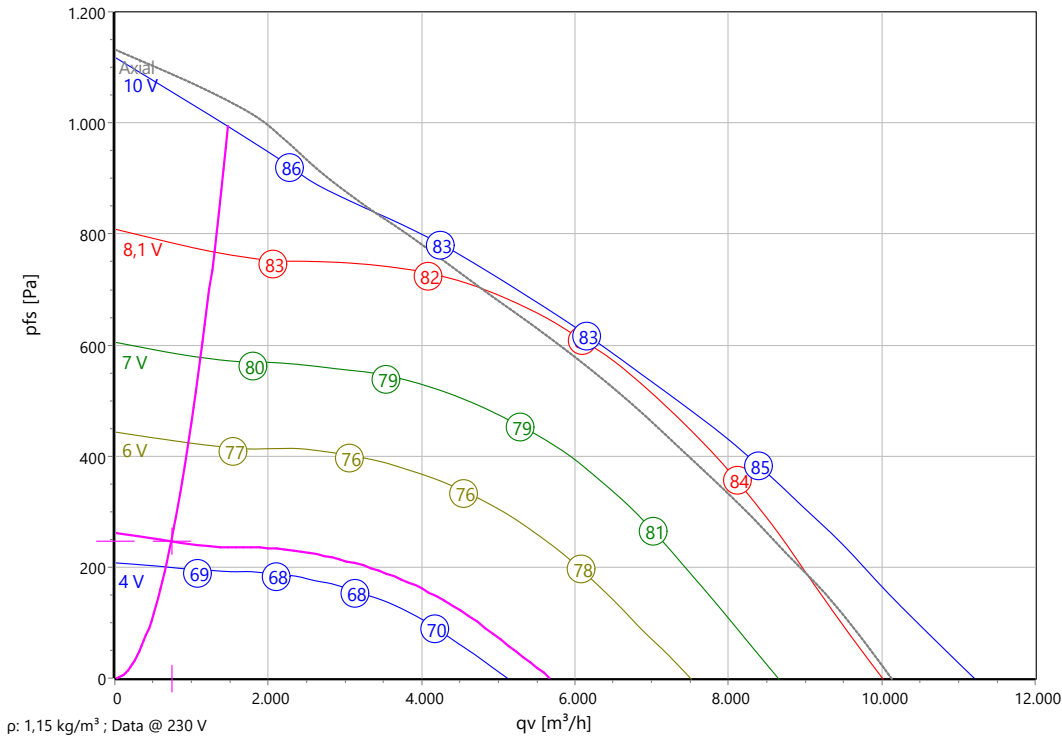
Type: **UNOR 80-500-G.6FF Gen3**

Open-loop control, 0-10 Volt

Part no.: F15-50019



**Curve:**



**ErP-Data:**

(EU) Nr. 1253/2014	(Lot6)
q <sub>v</sub>	7199 m <sup>3</sup> /h
p <sub>fs</sub>	847 Pa
η <sub>fs</sub>	63,4 %
P <sub>ed</sub>	2,69 kW
n	1800 r/min
N	57
v	2,16 m/s
η <sub>fs</sub> Lot11	61,8 %

**Operating Point:**

q <sub>v</sub>	735 m <sup>3</sup> /h
p <sub>fs</sub>	248 Pa
p <sub>fd</sub>	1 Pa
η <sub>ed,fs</sub>	26 %
η <sub>ed,tot</sub>	26 %
P <sub>ed</sub>	0,201 kW
I	0,76 A
n	862 r/min
L <sub>WA A,OUT</sub>	71 dB(A)
U <sub>c</sub>	4,5 V
v	0,221 m/s
SFP	987 Ws/m <sup>3</sup>
FEI	1,5
t <sub>R,OP</sub>	60 °C

**Intersections:**

Curve	q <sub>v</sub> [m <sup>3</sup> /h]	p <sub>fs</sub> [Pa]	P <sub>ed</sub> [kW]	I [A]	n <sub>N</sub> [r/min]	L <sub>WA A,OUT</sub> [dB(A)]
10 V	1471	994	1,306	3,46	1729	86
8,1 V	1293	768	0,905	2,44	1531	83
7 V	1122	579	0,591	1,63	1325	80
6 V	960	424	0,391	1,21	1137	77
4 V	659,3	200	0,144	0,61	780	69

**Nominal Data:**

U [V]	f [Hz]	Data @ [V]	P <sub>ed</sub> [kW]	I <sub>N</sub> [A]	n <sub>N</sub> [r/min]	t <sub>R</sub> [°C]	k <sub>10</sub> [m <sup>2</sup> /h]	Eff.-Rating	IP	m [kg]
3~200-240	50/60	230	1,68	4,45	1530	-25 .. +60	245	IE5	IP 54	82

**Sound Data:**

Frequency	Σ		125Hz	250Hz	500Hz	1kHz	2kHz	4kHz	8kHz	Distances	1 m	4 m
L <sub>wA(A,in)</sub> [dB(A)]	66	-	42	61	62	57	56	52	48	L <sub>pA(A,in)</sub> [dB(A)]	59	48
L <sub>wA(A,out)</sub> [dB(A)]	71	-	57	65	66	65	61	56	50	L <sub>pA(A,out)</sub> [dB(A)]	64	53
L <sub>wA(D,cas)</sub> [dB(A)]	57	-	49	56	43	32	25	20	13	L <sub>pA(D,cas)</sub> [dB(A)]	50	39

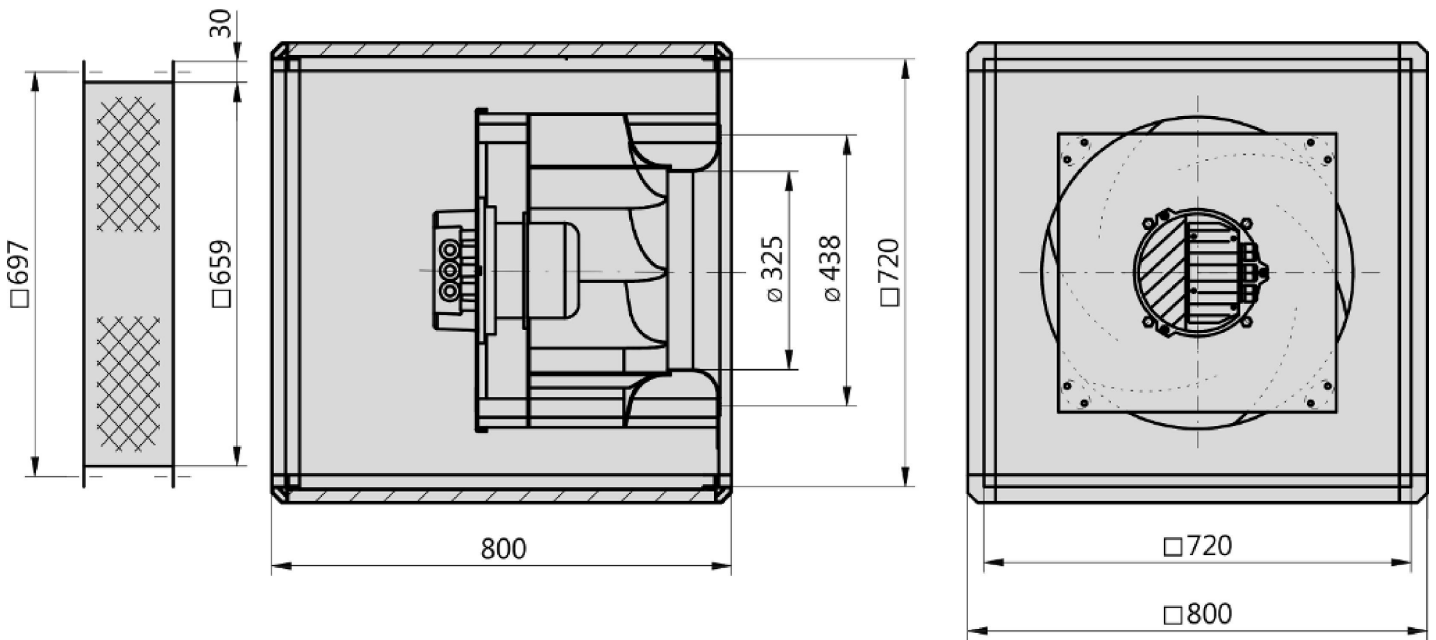
performance curve at radial air flow



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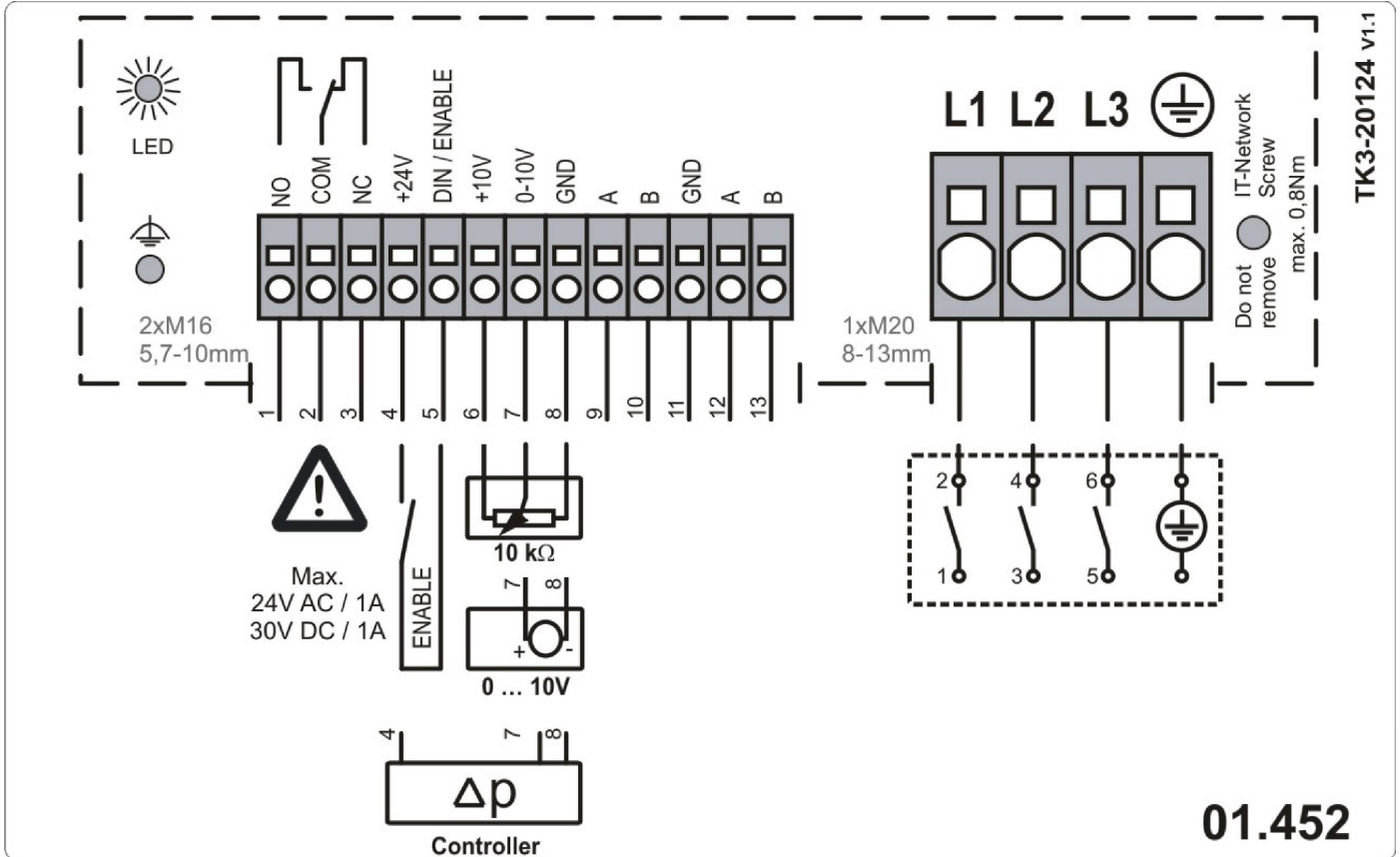




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### Unobox

Boxfan with flexible outlet

The housing supporting frames are double chamber aluminium profiles with corners made of plastic and double skinned galvanized steel panels insulated with non-inflammable, noise and temperature insulating fiberglass mats. One side of the casing is open as standard. Wall thickness 20mm,  $K=1,25 \text{ W/m}^2\text{K}$ . As standard, the casing is open opposite to the inlet side. The removable side panels ensure highest possible flexibility of the air flow direction at the installation site. Impeller of the E-series (Revolution) made of black, UV-stabilized and long glass fibre reinforced Polypropylene (PP) with 7 backward curved, profiled blades and narrow efficiency optimized circumferential diffusor. Sound and weight optimized. Corrosion resistant and compact design. Air Flow orientated behaviour. Energy saving EC external-rotor motor of the 3rd generation. Exceeds in accordance with IEC 60034 -30-2 minimum requirements for IE5 (Ultra Premium Efficiency). Maintenance free ball bearings, closed on both sides with long-term lubrication. Magnets without rare earth elements. Motor made of die casted aluminum. Protection Class IP54 and insulation class F. Electronic with integrated terminal box and environmental resistant cable glands (2x M16 and 1x M20). Status LED integrated. 100% speed controllable with integrated Motor Protection and Soft Start. ModBus RTU Interface integrated. Busconfiguration possible on site by customer. Potential-free Alarm Contact and integrated 24V Supply for accessories. Applicable in all common energy grids and IT-Network. Low noise commutation. Motorized Impeller statically and dynamically balanced according to DIN ISO 21940 -11 at least with quality level G6.3. Air volume control is possible over an 0 -10V Signal (accessory).

Fan complies with the guidelines required (Machinery -, EMC- and Low Voltage Directive) to comply with installation and conformity declaration as well as CE marking.

### Operating Point Data:

Airflow  
735 m<sup>3</sup>/h  
ext. Pressure  
248 Pa  
Input power  
0,201 kW  
Current  
0,76 A  
Speed  
862 r/min  
Sound power level  
71 Lw(A)  
Medium temperature  
60 °C

### Nominal Data:

Voltage  
3~200-240 V  
Frequency  
50/60 Hz  
Input power  
1,68 kW  
Current  
4,45 A  
Speed  
1530 r/min  
Medium temperature

60 °C  
Protection Mode  
IP 54  
Efficiency Class  
IE5  
K-Factor  
245  
Weight  
82 kg  
Dimensions  
800 mm / 800 mm / 800 mm

**Contact:**

Rosenberg Ventilatoren BV  
Elandlaan 8  
NL - 3734 CP Den Dolder  
<http://www.rosenberg.nl>

**Type:**

UNOR 80-500-G.6FF Gen3

**Article-No.:**

F15-50019