

KARTA KATALOGOWA

R3G280-AC66-30

Wentylator promieniowy EC, łopatki zakrzywione do tyłu, jednostronnie ssący

Producent: ebm-papst



Dane znamionowe

Napięcie znamionowe	48 V DC (36...57 V)
Prędkość obrotowa	2000 obr/min
Pobór mocy	135 W
Pobór prądu	2,85 A
Maks. wydajność	2230 m³/h
Maks. ciśnienie statyczne	469 Pa
Temperatura otoczenia	-25...+60 °C

Budowa

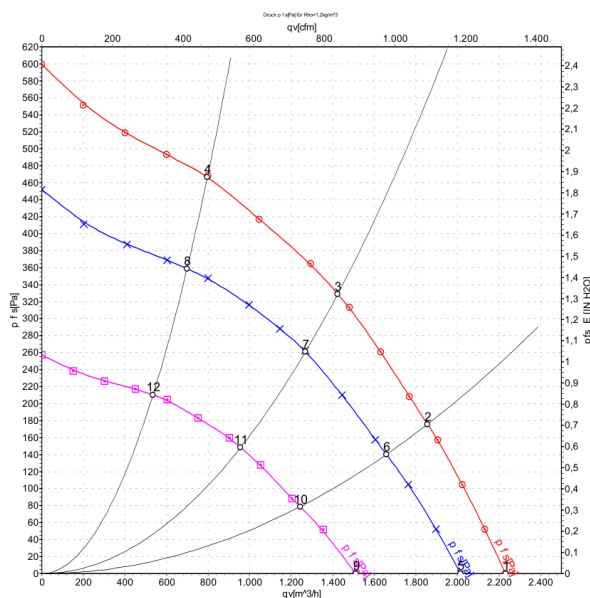
Średnica wirnika	280 mm
Materiał wirnika	stal ocynkowana
Liczba łopatek	11
Stopień ochrony	IP42
Klasa izolacji	B
Zabezpieczenie silnika	termik (TOP)
Masa	3,3 kg

Dane ErP (UE 327/2011)

Sprawność całkowita	53,1 %
Przepływ w pkt. optymalnym	1270 m³/h
Przyrost ciśnienia	250 Pa
Regulacja obrotów	tak (0–10 V / PWM)

Charakterystyka przepływowa

Curves: Air performance



Measurement: LU-72884-1
Measurement: LU-61034-1
Measurement: LU-72885-1

Air performance measured according to ISO 5801 installation category A. For detailed information on the measurement setup, contact ebm-papst. Intake sound level: Sound power level according to ISO 13347 / sound pressure level measured at 1 m distance from fan axis. The values given are valid under the specified measuring conditions and may vary due to conditions of installation. For deviations from the standard configuration, the parameters have to be checked on the installed unit.

Dane na podstawie karty producenta ebm-papst (oryginał na kolejnych stronach).

Wartości znamionowe dla punktu maksymalnego obciążenia; producent zastrzega możliwość zmian.

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R3G280-AC66-30

EC centrifugal fan

backward-curved, single-intake



Nominal data

Type	R3G280-AC66-30	
Motor	M3G084-CA	
Nominal voltage	VDC	48
Nominal voltage range	VDC	36 .. 57
Method of obtaining data		fa
Speed (rpm)	min ⁻¹	2000
Power consumption	W	135
Current draw	A	2.85
Min. ambient temperature	°C	-25
Max. ambient temperature	°C	60

ml = Max. load · me = Max. efficiency · fa = Free air · cs = Customer specification · ce = Customer equipment
Subject to change

Data according to Commission Regulation (EU) 327/2011

		Actual	Req. 2015			
01 Overall efficiency η_{es}	%	53.1	43.7	09 Power consumption P_e	kW	0.18
02 Measurement category		A		09 Air flow q_v	m³/h	1270
03 Efficiency category		Static		09 Pressure increase p_{fs}	Pa	250
04 Efficiency grade N		71.4	62	10 Speed (rpm) n	min ⁻¹	1925
05 Variable speed drive		Yes		11 Specific ratio*		1.00

Data obtained at optimum efficiency level.
The ErP data is determined using a motor-impeller combination in a standardized measurement setup.

* Specific ratio = $1 + p_b / 100\,000\text{ Pa}$ LU-61034



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Technical description

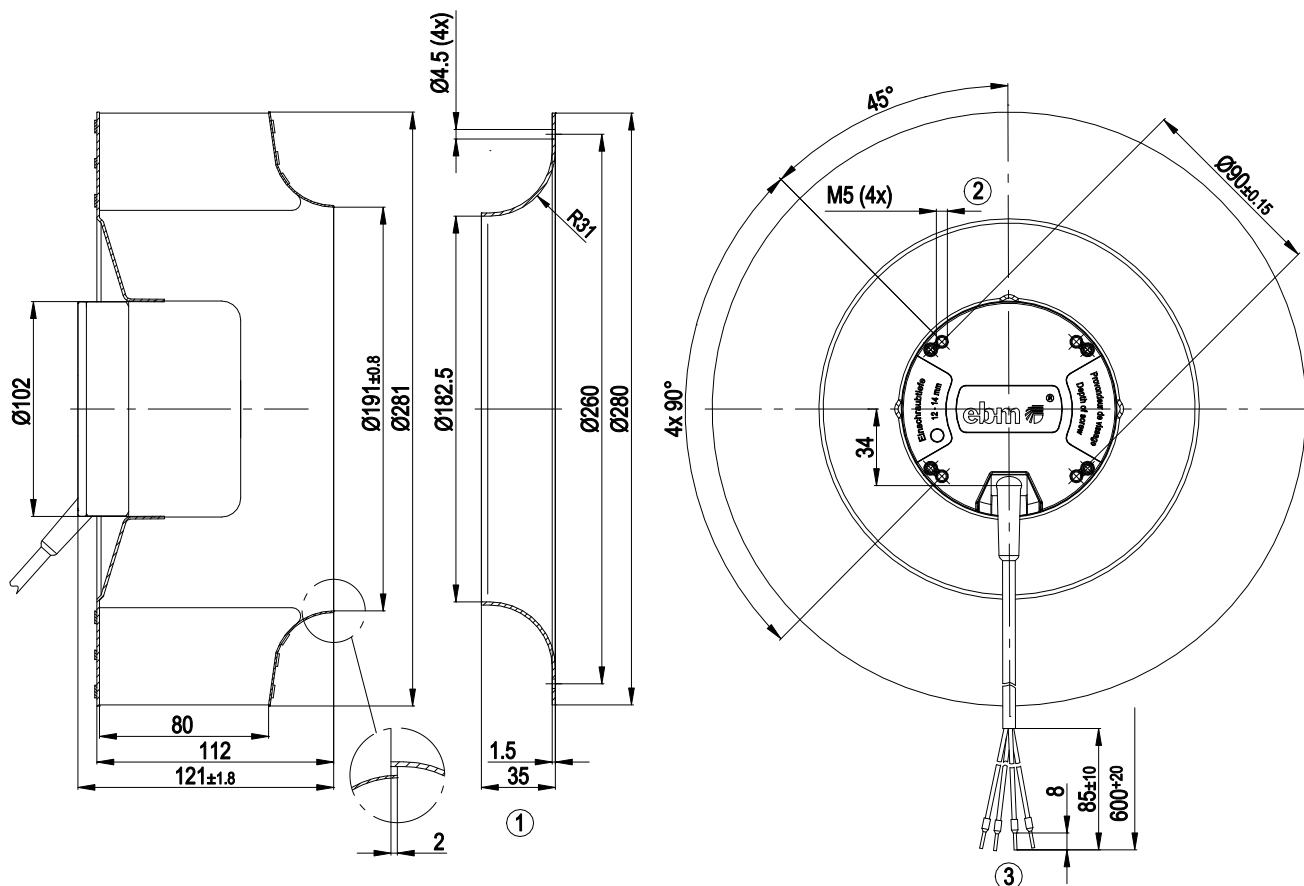
Weight	3.3 kg
Fan size	280 mm
Rotor surface	Painted black
Electronics housing material	Die-cast aluminum
Impeller material	Sheet steel, galvanized
Number of blades	11
Direction of rotation	Clockwise, viewed toward rotor
Degree of protection	IP42
Insulation class	"B"
Moisture (F) / Environmental (H) protection class	H1
Max. permitted ambient temp. for motor (transport/storage)	+80 °C
Min. permitted ambient temp. for motor (transport/storage)	-40 °C
Installation position	Any
Condensation drainage holes	None
Mode	S1
Motor bearing	Ball bearing
Technical features	- Tach output - Motor current limitation - Soft start - Control input 0-10 VDC / PWM - Control interface with SELV potential safely disconnected from supply - Thermal overload protection for motor
EMC immunity to interference	According to EN 61000-6-2 (industrial environment)
EMC interference emission	According to EN 55022 (Class B)
Motor protection	Thermal overload protector (TOP) internally connected
With cable	Variable
Conformity with standards	EN 60950-1; CE
Approval	CSA C22.2 No. 100; EAC; CCC; UL 1004-1

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Product drawing

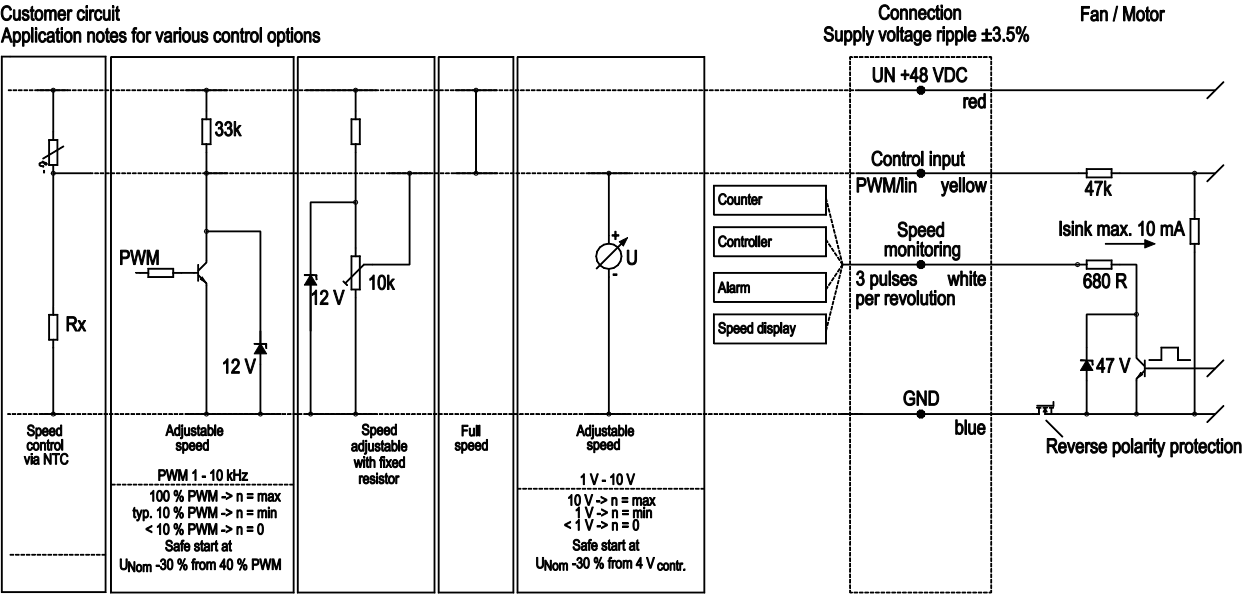


- | | |
|---|---|
| 1 | Accessory part: inlet ring 96360-2-4013 not included in scope of delivery |
| 2 | Clearance for screw 12-14 mm |
| 3 | Cable PVC AWG16, 4x crimped ferrules |

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Connection diagram

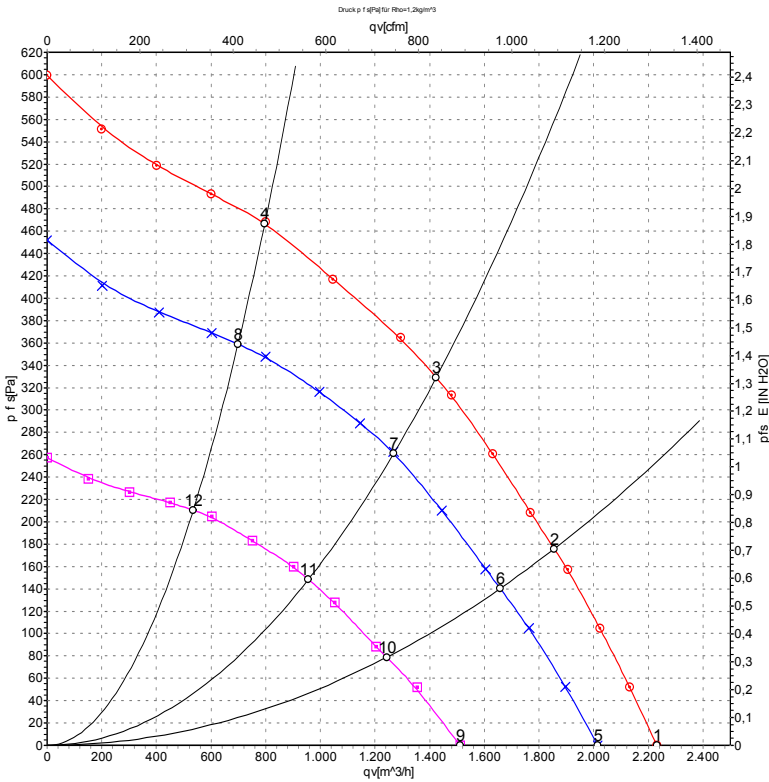


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Measured values

	U	n	P _{ed}	I	q _v	p _{fs}	q _v	p _{fs}
	V	min ⁻¹	W	A	m³/h	Pa	cfm	inH2O
1	57	2305	212	3.74	2230	0	1315	0.00
2	57	2245	257	4.55	1855	176	1090	0.71
3	57	2210	281	4.97	1425	329	840	1.32
4	57	2270	242	4.27	795	469	470	1.88
5	48	2000	135	2.85	2015	0	1185	0.00
6	48	1955	173	3.64	1660	140	975	0.56
7	48	1920	185	3.80	1270	260	745	1.04
8	48	1980	160	3.35	700	360	410	1.45
9	36	1550	65	1.81	1510	0	890	0.00
10	36	1520	80	2.23	1245	79	730	0.32
11	36	1505	87	2.45	955	149	565	0.60
12	36	1530	75	2.09	535	210	315	0.84

U = Power supply · n = Speed (rpm) · P_{ed} = Power consumption · I = Current draw · q_v = Air flow · p_{fs} = Pressure increase

