



www.fansco.com
sales@fansco.com

Nominal data

Type	R3G400-AD23-24	
Motor	M3G084-FA	
Nominal voltage	VDC	48
Nominal voltage range	VDC	36 .. 57
Method of obtaining data		fa
Speed (rpm)	min ⁻¹	1650
Power consumption	W	380
Current draw	A	8.0
Min. ambient temperature	°C	-25
Max. ambient temperature	°C	40

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}	%	59.8	48.2
02 Measurement category		A	
03 Efficiency category		Static	
04 Efficiency grade N		73.6	62
05 Variable speed drive		Yes	

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

09 Power consumption P_e	kW	0.49
09 Air flow q_v	m³/h	2420
09 Pressure increase p_{fs}	Pa	400
10 Speed (rpm) n	min ⁻¹	1605
11 Specific ratio*		1.00

* Specific ratio = $1 + p_{fs} / 100\,000\text{ Pa}$

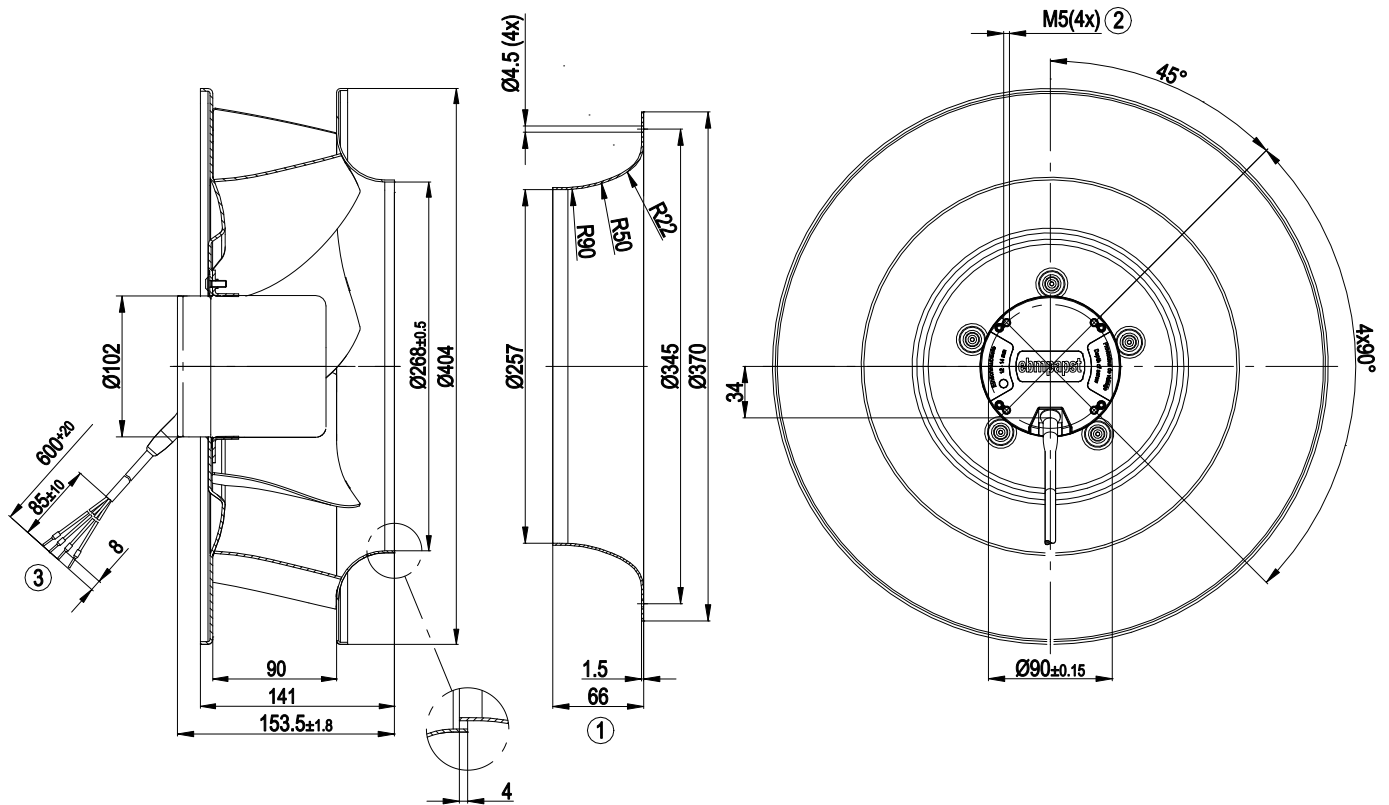
LU-114862



Technical description

Weight	5.2 kg
Fan size	400 mm
Rotor surface	Painted black
Electronics housing material	Die-cast aluminum
Impeller material	Sheet aluminum
Number of blades	6
Direction of rotation	Clockwise, viewed toward rotor
Degree of protection	IP20
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	Shaft horizontal or rotor on bottom; rotor on top on request
Cooling hole/opening	On rotor side
Mode	S1
Motor bearing	Ball bearing
Technical features	- Tach output - Power limiter - Motor current limitation - Soft start - Control input 0-10 VDC / PWM - 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	CE
Approval	CCC; UL 1004-1; CSA C22.2 No. 100

Product drawing

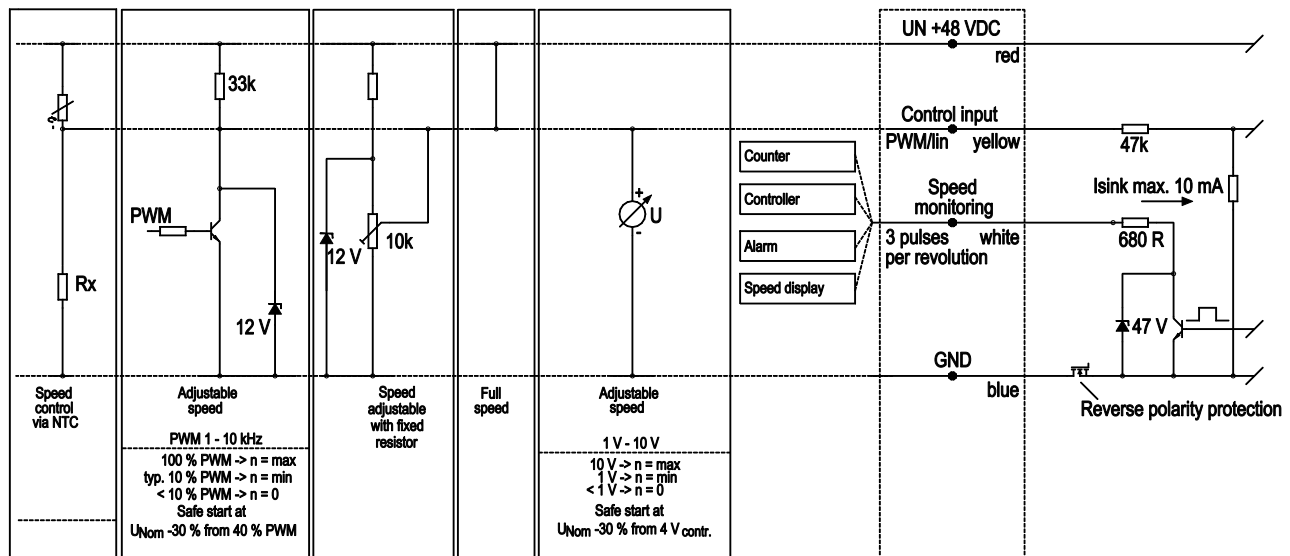


- | | |
|---|---|
| 1 | Accessory part: inlet ring 54476-2-4013 not included in scope of delivery |
| 2 | Max. clearance for screw 14 mm |
| 3 | Cable PVC AWG16, 4x crimped ferrules |

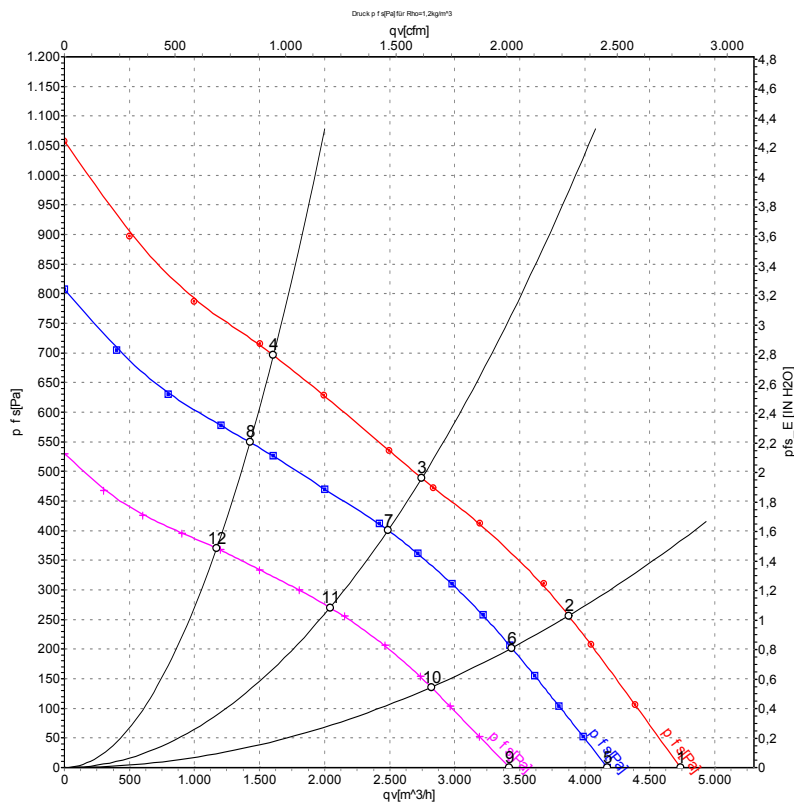
Connection diagram

Customer circuit

Application notes for various control options



Curves: Air performance



Measurement: LU-114865-1
Measurement: LU-114862-1
Measurement: LU-114868-1

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.

Measured values

	U	n	P _{ed}	I	q _v	p _{fs}	q _v	p _{fs}
	V	min ⁻¹	W	A	m³/h	Pa	cfm	inH ₂ O
1	57	1930	588	10.54	4735	0	2785	0.00
2	57	1850	673	12.15	3875	256	2280	1.03
3	57	1780	702	12.70	2745	488	1615	1.96
4	57	1845	671	12.10	1605	697	945	2.80
5	48	1650	380	8.00	4175	0	2455	0.00
6	48	1640	456	9.70	3440	200	2025	0.80
7	48	1605	497	10.59	2485	400	1465	1.61
8	48	1640	458	9.72	1425	550	840	2.21
9	36	1390	215	5.87	3420	0	2015	0.00
10	36	1350	251	6.87	2820	136	1660	0.55
11	36	1320	274	7.50	2040	270	1200	1.08
12	36	1345	252	6.88	1170	371	690	1.49

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