



element14

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[K3G280-AU06-B2](#)

EN

This Datasheet is presented by
the manufacturer



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Dieses Datenblatt wird vom
Hersteller bereitgestellt

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Cette fiche technique est
présentée par le fabricant

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EC centrifugal module - RadiPac

backward curved, single inlet
with support bracket



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Nominal data

Type	K3G280-AU06-B2	
Motor	M3G084-GF	
Phase		1~
Nominal voltage	VAC	230
Nominal voltage range	VAC	200 .. 277
Frequency	Hz	50/60
Type of data definition		ml
Speed	min ⁻¹	2800
Power input	W	715
Current draw	A	3.1
Min. ambient temperature	°C	-25
Max. ambient temperature	°C	40

ml = Max. load · me = Max. efficiency · fa = Running at free air · cs = Customer specs · cu = Customer unit
Subject to alterations

Data according to ErP directive

Installation category	A
Efficiency category	Static
Variable speed drive	Yes
Specific ratio*	1.01

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

		Actual	Request 2013	Request 2015
Overall efficiency η_{es}	%	58.7	46	50
Efficiency grade N		70.7	58	62
Power input P_{ed}	kW	0.72		
Air flow q_v	m ³ /h	2110		
Pressure increase p_{fs}	Pa	667		
Speed n	min ⁻¹	2770		

Data definition with optimum efficiency. LU-125805
The ErP data is determined using a motor-impeller combination in a standardised measurement configuration.



Technical features

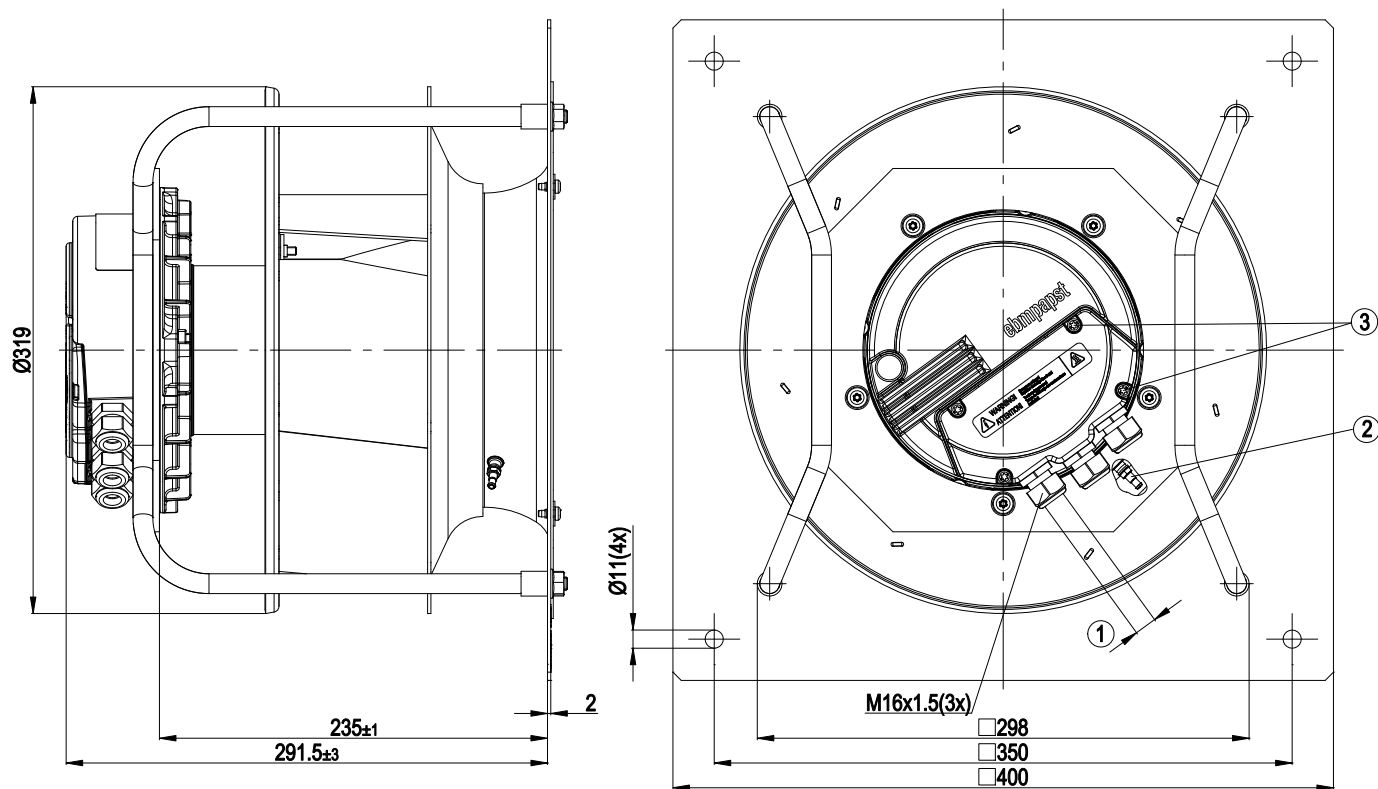
Mass	11.5 kg
Size	280 mm
Surface of rotor	Coated in black
Material of electronics housing	Die-cast aluminium
Material of impeller	Aluminium sheet
Material of mounting plate	Sheet steel, galvanised
Material of support bracket	Steel, coated in black
Material of inlet nozzle	Sheet steel, galvanised
Number of blades	7
Direction of rotation	Clockwise, seen on rotor
Type of protection	IP 54
Insulation class	"B"
Humidity class	F3-1
Max. permissible ambient motor temp. (transp./ storage)	+80 °C
Min. permissible ambient motor temp. (transp./storage)	-40 °C
Mounting position	Shaft horizontal or rotor on bottom; rotor on top on request
Condensate discharge holes	Rotor-side
Operation mode	S1
Motor bearing	Ball bearing
Technical features	- Output 10 VDC, max. 10 mA - Output 20 VDC, max. 50 mA - Output for slave 0-10 V - Input for sensor 0-10 V or 4-20 mA - Alarm relay - Motor current limit - PFC, active - RS485 MODBUS RTU - Soft start - Control input 0-10 VDC / PWM - Control interface with SELV potential safely disconnected from the mains - Over-temperature protected electronics / motor - Line undervoltage / phase failure detection
EMC interference immunity	Acc. to EN 61000-6-2 (industrial environment)
EMC harmonics	Acc. to EN 61000-3-2/3
EMC interference emission	Acc. to EN 55022 (Class B, household environment)
Touch current acc. IEC 60990 (measuring network Fig. 4, TN system)	<= 3.5 mA
Electrical leads	Via terminal box
Motor protection	Thermal overload protector (TOP) wired internally
Protection class	I (if protective earth is connected by customer)
Product conforming to standard	EN 61800-5-1; CE
Approval	CCC; EAC



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Product drawing

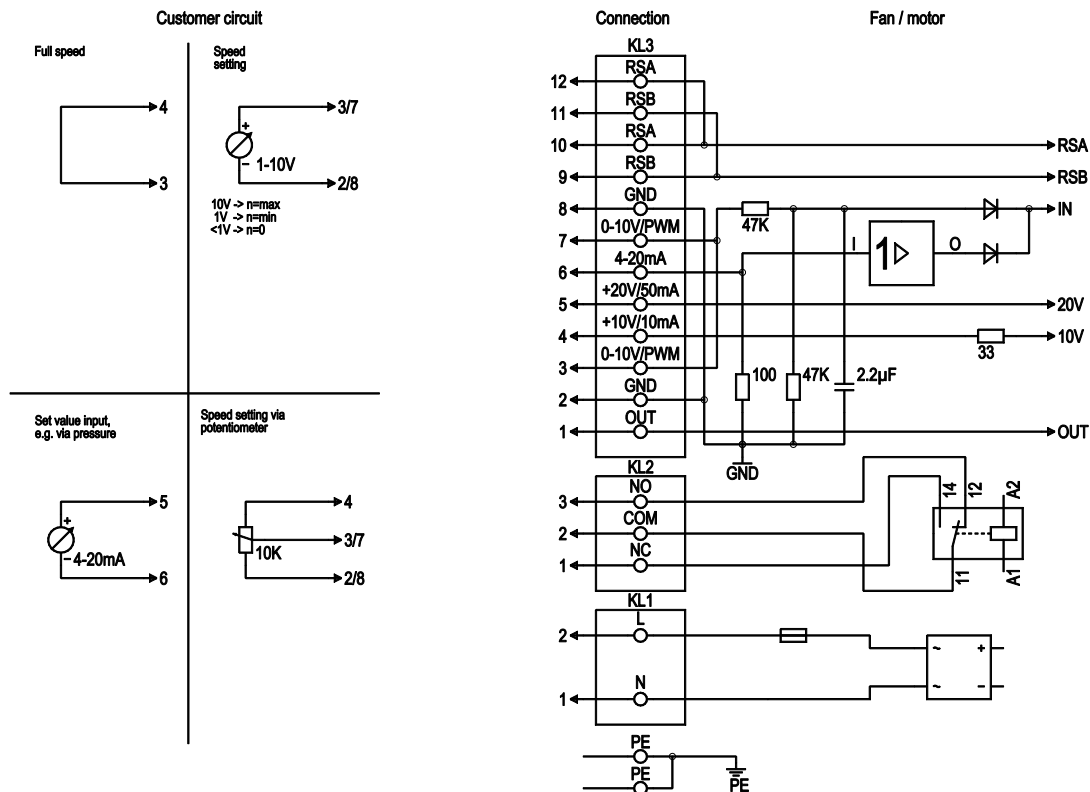


- | | |
|---|--|
| 1 | Cable diameter: min. 4 mm, max. 10 mm; tightening torque: 2.5 ± 0.4 Nm |
| 2 | Inlet nozzle with bleeder connection for pressure relief (k-factor 93) |
| 3 | Tightening torque 3.5 ± 0.5 Nm |

EC centrifugal module - RadiPac

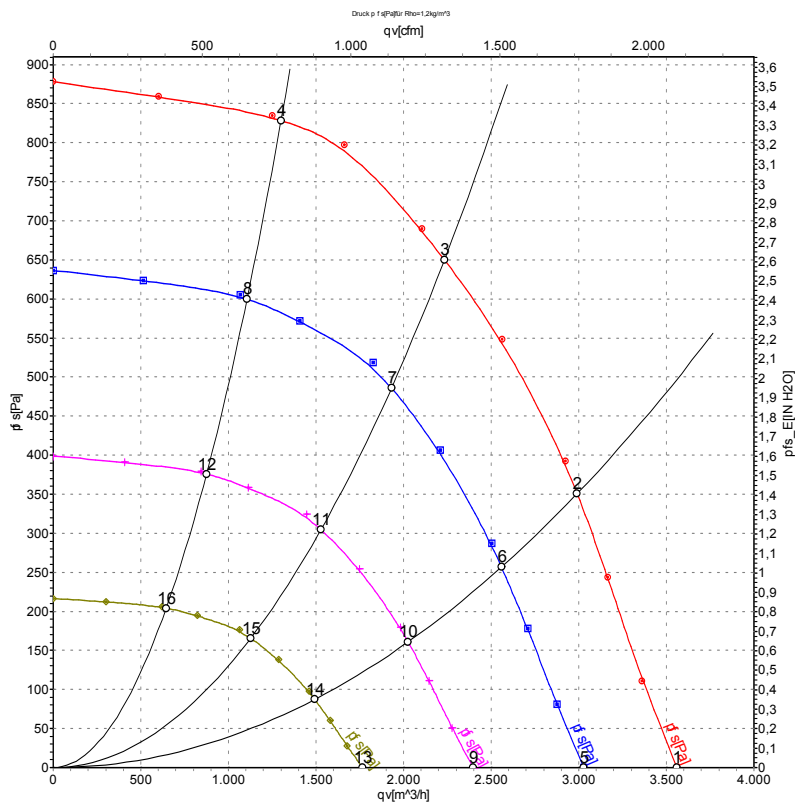
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Connection screen



No.	Conn.	Designation	Function / assignment
PE	-	PE	Protective earth connection
KL1	1, 2	N, L	Supply voltage, 50/60 Hz
KL2	1	NC	Floating status message contact, break for failure
KL2	2	COM	Floating status message contact, changeover contact, common connection (2 A, max. 250 VAC, min. 10 mA, AC1)
KL2	3	NO	Floating status message contact, normally open, make for failure
KL3	1	OUT	Analogue output, 0-10 VDC, max. 3 mA, SELV, Output of the current motor level control coefficient: 1 V corresponds to 10% level control coefficient, 10 V correspond to 100% level control coefficient.
KL3	2, 8	GND	Reference mass for control interface, SELV
KL3	3, 7	0-10 V	Use control / actual value input 0-10 VDC, impedance 100 kΩ only as alternative to 4-20 mA input, SELV
KL3	4	+10 V	Voltage output 10 VDC (+/- 3%), max. 10 mA, Supply voltage for ext. devices (e.g. potentiometer), SELV
KL3	5	+20 V	Voltage output 20 VDC (+25%/-10%), max. 50 mA Supply voltage for ext. devices (e.g. sensors), SELV
KL3	6	4-20 mA	Use control / actual value input 4-20 mA, impedance 100 Ω, only as alternative to 0-10 V input, SELV
KL3	9, 11	RSB	RS485 interface for MODBUS, RSB
KL3	10, 12	RSA	RS485 interface for MODBUS, RSA

Charts: Air flow 50 Hz



Measurement: LU-125805

Air performance measured as per ISO 5801
Installation category A. For detailed
information on the measuring set-up, please
contact ebm-papst. Suction-side noise
levels: LwA measured as per ISO 13347 /
LpA measured with 1m distance to fan axis.
The values given are valid under the
measuring conditions mentioned above and
may vary according to the actual installation
situation. With any deviation from the
standard set-up, the specific values have to
be checked and reviewed with the unit
installed.

Measured values

	U	f	n	P _{ed}	I	LpA _{in}	LwA _{in}	LwA _{out}	qv	p _{fs}
	V	Hz	min ⁻¹	W	A	dB(A)	dB(A)	dB(A)	m ³ /h	Pa
1	230	50	2800	479	2.11	75	83	89	3560	0
2	230	50	2800	655	2.88	71	79	85	2990	350
3	230	50	2800	715	3.10	69	76	83	2235	650
4	230	50	2800	650	2.85	73	82	87	1300	830
5	230	50	2400	294	1.30	71	79	85	3025	0
6	230	50	2400	410	1.80	68	75	81	2560	258
7	230	50	2400	471	2.06	66	73	80	1930	488
8	230	50	2400	401	1.76	69	78	84	1105	602
9	230	50	1900	146	0.65	66	74	80	2395	0
10	230	50	1900	203	0.89	62	70	76	2025	161
11	230	50	1900	234	1.02	61	68	75	1530	306
12	230	50	1900	199	0.87	64	73	78	875	377
13	230	50	1400	58	0.26	60	67	73	1765	0
14	230	50	1400	81	0.36	56	63	70	1495	88
15	230	50	1400	93	0.41	54	62	68	1125	166
16	230	50	1400	80	0.35	58	66	72	645	205

U = Supply voltage · f = Frequency · n = Speed · P_{ed} = Power input · I = Current draw · LpA_{in} = Sound pressure level inlet side · LwA_{in} = Sound power level inlet side · LwA_{out} = Sound power level outlet side

qv = Air flow · p_{fs} = Pressure increase





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