



W3G990-IC12-05

Aksialvifte for kanal



Utstyrt med energieffektiv EC-motor med integrert drift- og styreelektronikk.

- Turtallet styres med 0-10 V signal eller PWM
- Utgang 10 VDC maks 1,1 mA
- Lekkasje strøm < 3,5 mA iht IEC 60990
- 5 vifteblader
- Alarmrele
- PFC, aktiv
- RS485 MODBUS-RTU

Tekniske data

Beskrivelse	Aksialvifte for kanal
Spending	3~400 VAC
Spenningsområde	3~380-480 VAC
Frekvens	50 / 60 Hz
Effekt	6,3 kW
Merkestrøm	9,8 A
Turtall	1030 rpm
Luftmengde	13564.00 l/s
Luftmengde	48830.0 m3/h
Trykkbegrensning	Maks mottrykk 255 Pa
Temperaturområde	-25...+55 °C
Blåseretning	V
Motor	Energieffektiv EC-motor med integrert drift- og styreelektronikk. Klar for turtallsregulering med f.eks. 0-10 V signal eller Modbus
Motorbetegnelse	M3G200-QA
Motorvern / Vern	Overtemperaturvernet motor og elektronikk. Aktiv PFC, mykstart
Kapslingsklasse	IP55
Isolasjonsklasse motor	F
Lagertype	Kulelager
Viftehjul	5 stk. vifteblad produsert av aluminium
Viftehus	Stålplate, galvanisert og belagt med svart plast (RAL 9005)
Montasje	Horisontal aksel eller rotor nedover
Elektrik tilkobling	Koblingsboks
Størrelse	Ø 1000 mm
Vekt	132.0 kg
Styresignal	0...10 V DC/PWM, RS485 MODBUS-RTU
Art.nr.	W3G990IC1205

Se www.ebmpapst.no for oppdatert informasjon



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Tilbehør til W3G990-IC12-05		
Benevning	Art.nr.	Informasjon
CALAIR-PR-230V	4615205	EC-Trykkregulator med innebygd trykkgiver, MODBUS m.m.
CXE/AV 230V	4645212	EC-regulator
MultiController E Regulate	470112149	EC-regulator
Multicontroller E 0-100%	470112148	EC-regulator
CCC000AD0602	CCC000AD0602	Digital universalregulator
ES10 Trykk-/lufthast.regulator	470112152	Konstant trykk- eller lufthastighetsregulator
CBC000AE0401	CBC000AE0401	EC-Trinnløs regulering med 3 ulike hastigheter
MTP10	4615210	Potentiometer for manuelt styresignal 0-10V
SMT-D-4P-EM	4615450	4-trinns omkobler for EC-motorer 0-10V
Potentiometer 10 kohm	4617186	Potentiometer for manuelt styresignal 0-10V
Potentiometer for panelmontasje	46707184	Potentiometer med ledning 10 kohm for manuelt styresignal 0-10V
DPC200-EP50	4615254	Differansetrykkregulator 0-50 Pa
DPC200-EP500	4615256	Differansetrykkregulator 0-500 Pa
DPC200-EP1000	4615258	Differansetrykkregulator 0-1000 Pa
DPC200-EP2000	4615267	Differansetrykkregulator 0-2000 Pa
USB - RS485 adapter	21490-1-0174	Adapter USB - RS485

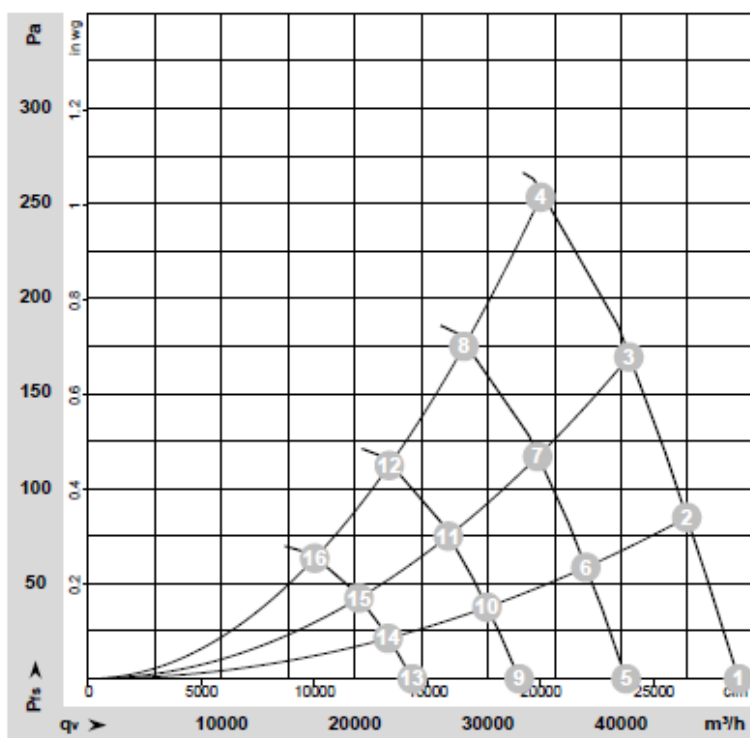


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Aksialvifte for kanal

Diagram

Curves: Air performance 50 Hz



$\rho = 1.15 \text{ kg/m}^3 \pm 2 \%$

Measurement: LU-176101-1

Air performance measured according to ISO 5801 installation category A. For detailed information on the measurement setup, contact ebmpapst. 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	f	n	P _{ed}	I	LpA _{in}	LwA _{in}	LwA _{out}	q _v	P _{ts}	q _v	P _{ts}
	V	Hz	min ⁻¹	W	A	dB(A)	dB(A)	dB(A)	m ³ /h	Pa	cfm	in. wg
1	400	50	1030	5653	8.71	92	101	101	48830	0	28740	0.00
2	400	50	1030	5938	9.13	91	100	100	44940	85	26450	0.34
3	400	50	1030	6227	9.56	90	99	99	40585	170	23890	0.68
4	400	50	1030	6300	9.80	92	100	100	34000	255	20010	1.02
5	400	50	855	3196	4.93	87	96	96	40380	0	23765	0.00
6	400	50	855	3411	5.25	87	95	95	37360	59	21990	0.24
7	400	50	855	3574	5.49	86	94	94	33730	118	19855	0.47
8	400	50	855	3630	5.56	87	96	96	28205	177	16600	0.71
9	400	50	685	1643	2.53	82	90	90	32350	0	19040	0.00
10	400	50	685	1754	2.70	81	90	90	29930	38	17615	0.15
11	400	50	685	1838	2.82	80	89	89	27025	76	15905	0.31
12	400	50	685	1867	2.86	82	90	90	22595	114	13300	0.46
13	400	50	515	698	1.08	74	83	83	24320	0	14315	0.00
14	400	50	515	745	1.15	74	82	82	22505	21	13245	0.08
15	400	50	515	781	1.20	73	82	81	20320	43	11960	0.17
16	400	50	515	793	1.22	75	83	83	16990	64	10000	0.26

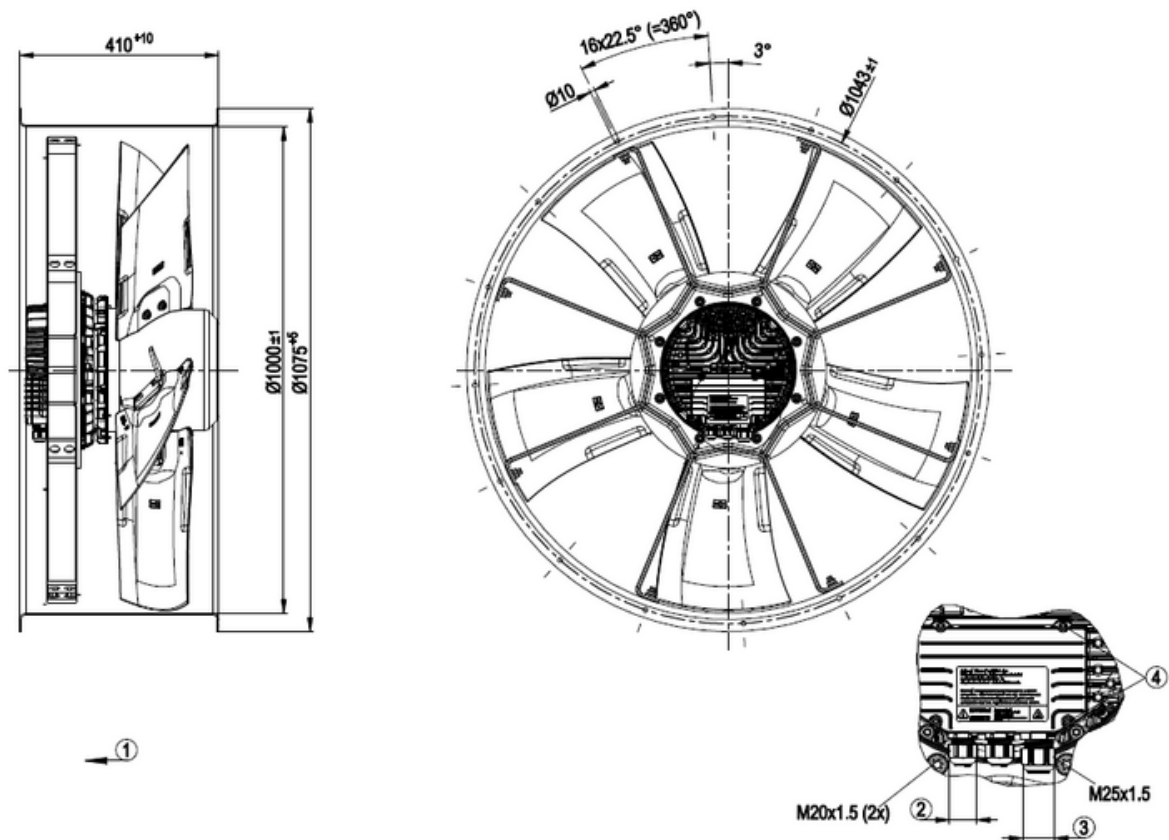
U = Voltage · f = Frequency · n = Speed (rpm) · P_{ed} = Power consumption · I = Current draw · LpA_{in} = Sound pressure level intake side · LwA_{in} = Sound power level intake side
LwA_{out} = Sound power level outlet side · q_v = Air flow · P_{ts} = Pressure increase



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Tegning



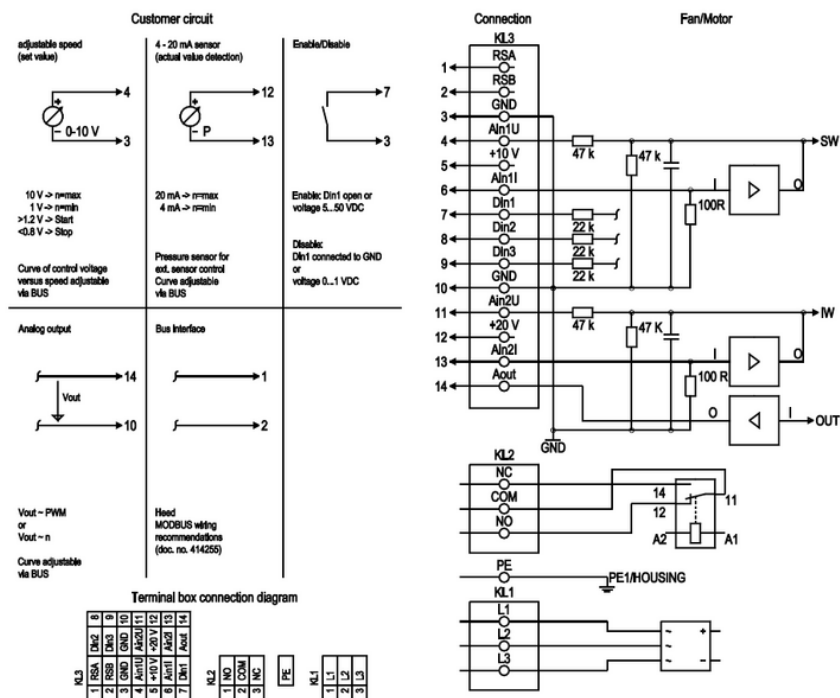
1	Direction of air flow "V"
2	Cable diameter min. 4 mm, max. 10 mm, tightening torque 4 ± 0.6 Nm
3	Cable diameter min. 9 mm, max. 16 mm, tightening torque 6 ± 0.9 Nm
4	Tightening torque 3.5 ± 0.5 Nm



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Aksialvifte for kanal

Koblingsskjema



No.	Conn.	Designation	Function/assignment
KL 1	1	L1	Supply connection, power supply; for nominal voltage range see technical data
KL 1	2	L2	Supply connection, power supply; for nominal voltage range see technical data
KL 1	3	L3	Supply connection, power supply; for nominal voltage range see technical data
PE		PE	Ground connection, PE connection
KL 2	1	NO	Status relay, floating status contact, make for failure
KL 2	2	COM	Status relay, floating status contact, changeover contact, common connection, contact rating 250 VAC/ max. 2 A (AC1)/min. 10 mA
KL 2	3	NC	Status relay, floating status contact, break for failure
KL 3	1	RSA	Bus connection RS485, RSA, MODBUS-RTU; SELV
KL 3	2	RSB	Bus connection RS485, RSB, MODBUS-RTU; SELV
KL 3	3 / 10	GND	Reference ground for control interface; SELV
KL 3	4	Ain1 U	Analog input 1, set value: 0-10 V, Ri = 100 kΩ, adjustable curve, only usable as alternative to input Ain1 I; SELV
KL 3	5	+ 10 V	Fixed voltage output 10 VDC, + 10 V +/-3%, max. 10 mA, short-circuit-proof, power supply for ext. devices (e.g. potentiometers); SELV
KL 3	6	Ain1 I	Analog input 1, set value: 4-20 mA, Ri = 100 Ω, adjustable curve, only usable as alternative to input Ain1 U; SELV
No.	Conn.	Designation	Function/assignment
KL 3	7	Din1	Digital input 1: enable electronics, enable: pin open or applied voltage 5-50 VDC disable: bridge to GND or applied voltage < 1 VDC reset function: triggers software reset after a level change to < 1 VDC; SELV
KL 3	8	Din2	Digital input 2: Switching parameter sets 1/2, according to EEPROM setting, the valid or used parameter set can be selected via bus or via digital input DIN2. Parameter set 1: pin open or applied voltage 5-50 VDC Parameter set 2: bridge to GND or applied voltage < 1 VDC; SELV
KL 3	9	Din3	Digital input 3: according to EEPROM setting, the integrated controller's direction of action can be selected via bus or digital input Din3; normal: pin open or applied voltage 5-50 VDC inverse: bridge to GND or applied voltage < 1 VDC; SELV
KL 3	11	Ain2 U	Analog input 2, measured value: 0-10 V, Ri = 100 kΩ, adjustable curve, only usable as alternative to input Ain2 I; SELV
KL 3	12	+ 20 V	Fixed voltage output 20 VDC, + 20 V +/-25/-10%, max. 50 mA, short-circuit-proof, power supply for ext. devices (e.g. sensors); SELV Alternatively: +24 VDC input for parameterization without line voltage
KL 3	13	Ain2 I	Analog input 2, measured value: 4-20 mA, Ri = 100 Ω, adjustable curve, only usable as alternative to input Ain2 U; SELV
KL 3	14	Aout	Analog output 0-10 VDC, max. 5 mA, output of current motor modulation level / motor speed adjustable curve; SELV



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Aksialvifte for kanal

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