

8300101042
VKK0200XSLES

EC diagonal module

with housing

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Amtsgericht (court of registration) Stuttgart · HRB 590142

Nominal data

Item	8300101042	
Motor	E05520-25	
Phase		1~
Nominal voltage	VAC	115
Nominal voltage range	VAC	100 .. 240
Frequency	Hz	50/60
Method of obtaining data		ml
Speed (rpm)	min ⁻¹	3500
Power consumption	W	110
Current draw	A	1.6
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

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Technical description

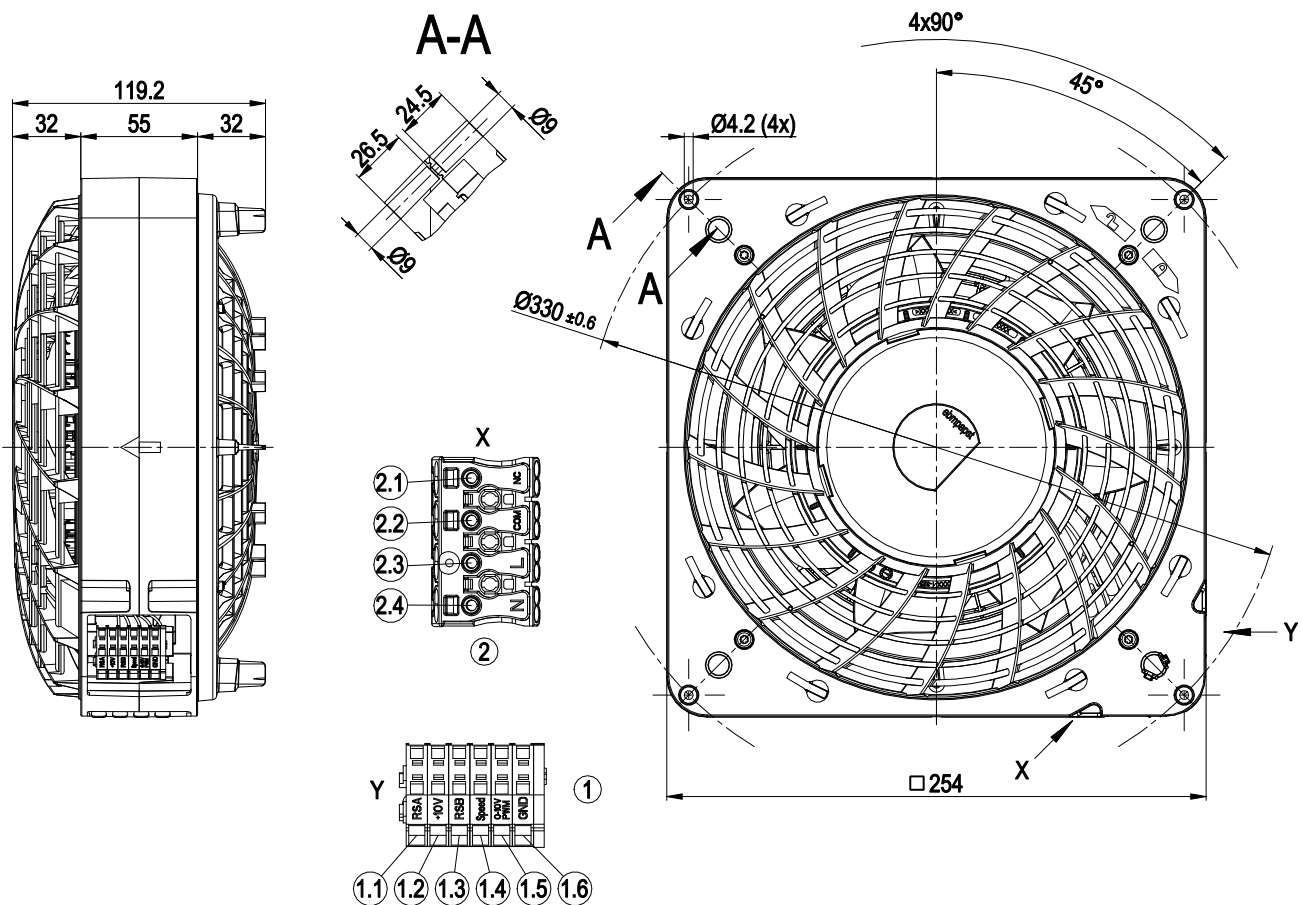
Size	200 mm
Motor size	55
Rotor surface	Thick-film passivated
Impeller material	PA plastic
Housing material	PP plastic
Flowgrid material	PP plastic
Number of blades	7
Airflow direction	V
Direction of rotation	Clockwise, viewed toward rotor
Degree of protection	IP20
Insulation class	"B"
Moisture (F) / Environmental (H) protection class	H0 - dry environment
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, open rotor
Mode	S1
Motor bearing	Ball bearing
Technical features	- Output 10 VDC, max. 10 mA - Locked-rotor detection - Selection of direction of rotation left/right - Tach output - Alarm relay - Cable break detection with control line - Power limiter - Motor current limitation - Emergency operation - RS-485 MODBUS-RTU - Soft start - EEPROM write cycles: 100,000 maximum - Control input 0-10 VDC / PWM - Control interface with SELV potential safely disconnected from the mains - Thermal overload protection for motor
Touch current according to IEC 60990 (measuring circuit Fig. 4, TN system)	<= 3.5 mA
Electrical hookup	Terminal box
Motor protection	Thermal switch auto reset, internally connected
Protection class assignment	II; This component for installation may have several local protection classes. This information relates to this component's basic design. The final protection class is based on the component's intended installation and connection. If there is a PE connection point on the housing, it must not be visible after installation.
Conformity with standards	EN 60335-1; EN 60034-1; EN 60204-1; CE
Comment on CE	Ecodesign Directive 2009/125/EC + Fan Directive (EC) No. 327/2011 does not apply, as power consumption <125W.
Approval	UL 507 + 60730-1; CSA C22.2 No.113 + CAN/CSA-E60730-1

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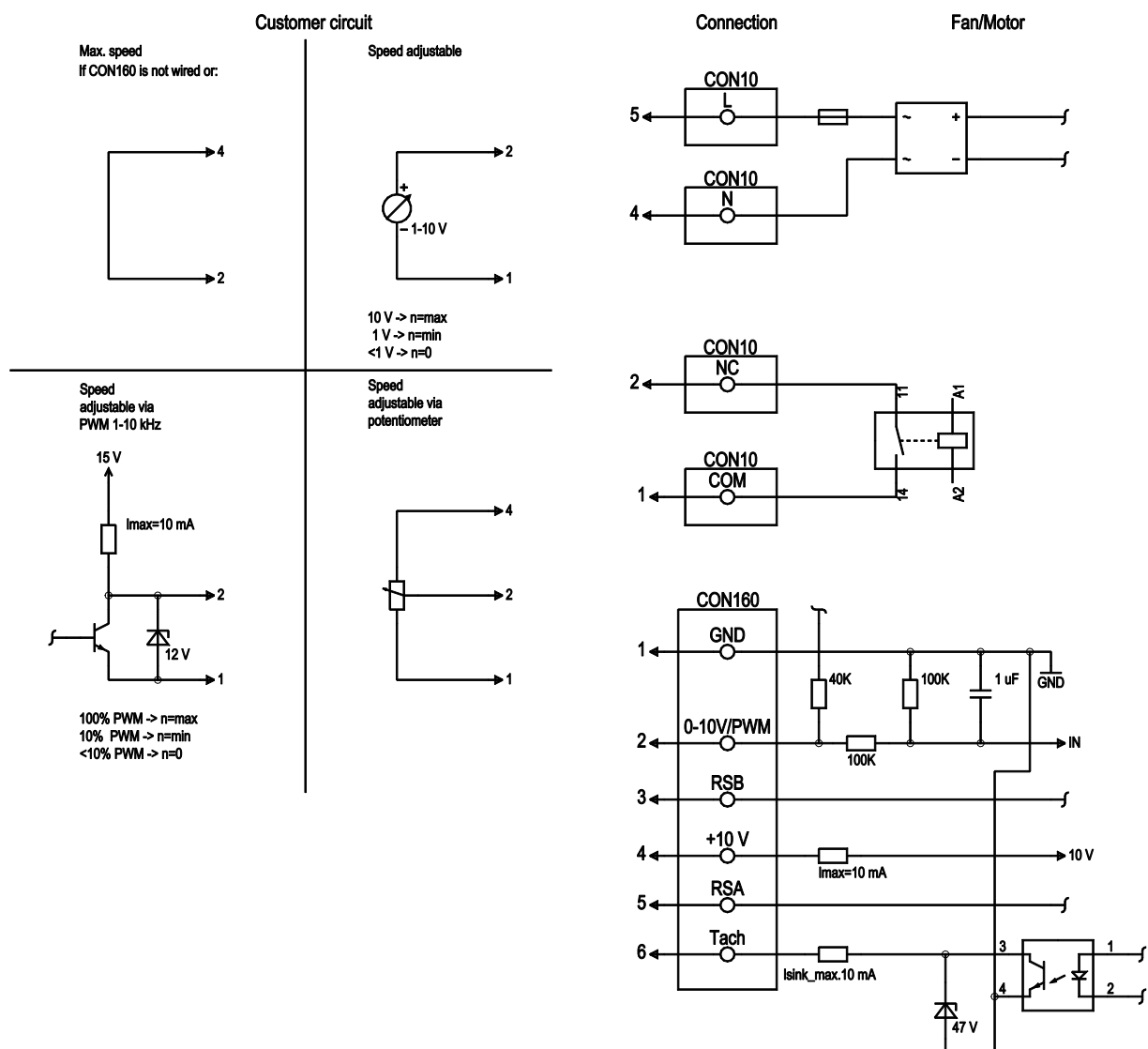
with housing

Product drawing



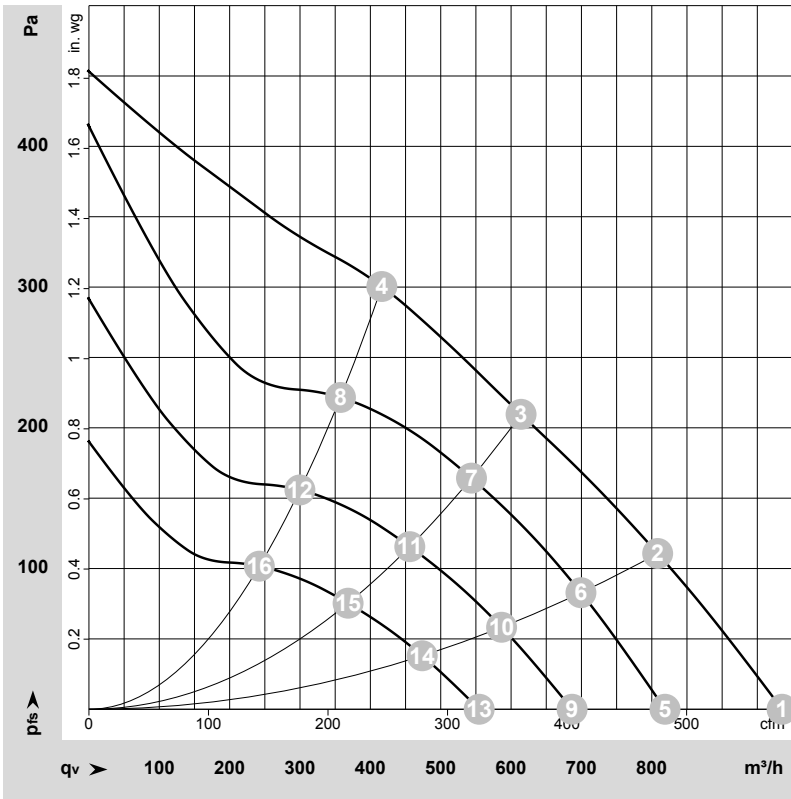
1	Terminal strip WAGO 0260-0099
1.1	RSA
1.2	+10 V / max. 10 mA
1.3	RSB
1.4	Tach
1.5	0-10 V/PWM
1.6	GND
2	Terminal strip Adels Contact LK 980-01 RZ/ 4 B V0
2.1	NC
2.2	COM
2.3	L
2.4	N

Connection diagram



No.	Conn.	Designation	Color	Function/assignment
CON10	5	L	black	Power supply, phase, see nameplate for voltage range
CON10	4	N	blue	Power supply, neutral conductor, see nameplate for voltage range
CON10	2	NC	red	Status relay, floating status contact, break for failure
CON10	1	COM	white	Status relay, floating status contact, common connection, contact rating 250 VAC / 2 A (AC1) min. 10 mA, reinforced insulation on control interface side
CON160	1	GND	blue	Reference ground for control interface, SELV
CON160	2	0-10 V / PWM	yellow	Control input 0-10 V or PWM, impedance 100 kΩ, SELV, adjustable curve
CON160	3	RSB	brown	RS-485 interface for MODBUS RSB, SELV
CON160	4	+10 V/max. 10 mA	red	Voltage output, power supply for external devices (e.g. potentiometers), SELV
CON160	5	RSA	white	RS-485 interface for MODBUS RSA, SELV
CON130	6	Tacho	gray	Tach output, open collector, 1 pulse per revolution, $I_{sink_max} = 10\text{ mA}$, SELV

Curves: Air performance 50 Hz



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

Measurement: LU-226341-1
Date: 2023-04-11

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

	Wired	U	f	n	P _e	I	q _v	p _{fs}	q _v	p _{fs}
		V	Hz	min ⁻¹	W	A	m ³ /h	Pa	cfm	in. wg
1	1~	115	50	3730	110	1.60	985	0	580	0.00
2	1~	115	50	3585	110	1.60	810	110	475	0.44
3	1~	115	50	3500	110	1.60	615	210	360	0.84
4	1~	115	50	3605	110	1.60	415	300	245	1.20
5	1~	115	50	3100	64	0.91	820	0	480	0.00
6	1~	115	50	3100	72	1.03	700	83	410	0.33
7	1~	115	50	3100	78	1.10	545	165	320	0.66
8	1~	115	50	3100	71	1.01	360	223	210	0.90
9	1~	115	50	2600	38	0.54	685	0	405	0.00
10	1~	115	50	2600	43	0.61	585	59	345	0.24
11	1~	115	50	2600	46	0.65	455	116	270	0.47
12	1~	115	50	2600	42	0.59	300	157	175	0.63
13	1~	115	50	2100	20	0.28	555	0	325	0.00
14	1~	115	50	2100	22	0.32	475	38	280	0.15
15	1~	115	50	2100	24	0.34	370	76	215	0.31
16	1~	115	50	2100	22	0.31	240	102	140	0.41

Wired = Wiring · U = Voltage · f = Frequency · n = Speed (rpm) · P_e = Power consumption · I = Current draw · q_v = Air flow · p_{fs} = Pressure increase