S4E350-DQ02-03

AC axial fan

sickled blades (S series)

with support ring

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ErP2015 EXCEEDS THE NORM

Nominal data

Type	**S4E350-DQ02-03**
Motor	**M4E074-EI**

Phase		1~	1~
Nominal voltage	VAC	230	230
Frequency	Hz	50	60
Type of data definition		cu	cu
Valid for approval / standard		CE	CE
Speed	min^{-1}	1420	1660
Power input	W	180	275
Current draw	A	0.8	1.2
Motor capacitor	µF	6	6
Capacitor voltage	VDB	400	400
Min. ambient temperature	°C	-40	-40
Max. ambient temperature	°C	50	50
Starting current	A	2.0	1.9

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	No
Specific ratio*	1.00

* Specific ratio = 1 + p_{fs} / 100 000 Pa

		Actual	Request 2013	Request 2015
Overall efficiency η_{es}	%	31.4	24.8	28.8
Efficiency grade N		42.6	36	40
Power input P_e	kW	0.17		
Air flow q_v	m^3/h	2445		
Pressure increase p_{fs}	Pa	80		
Speed n	min^{-1}	1415		

Data definition with optimum efficiency. LU-71990
The ErP data is determined using a motor-impeller combination in a standardised measurement configuration.

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Technical features

Mass	4.5 kg
Size	350 mm
Surface of rotor	Coated in black
Material of blades	Sheet steel, coated in black
Material of mounting ring	Steel, coated in black plastic (RAL 9005)
Number of blades	5
Direction of air flow	"V"
Direction of rotation	Counter-clockwise, seen on rotor
Type of protection	IP 44; Depending on installation and position as per EN 60034-5
Insulation class	"F"
Humidity class	F2-2
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 with anti-freezing grease
Touch current acc. IEC 60990 (measuring network Fig. 4, TN system)	< 0.75 mA
Motor protection	Thermal overload protector (TOP) wired internally
Cable exit	Variable
Protection class	I (if protective earth is connected by customer)
Product conforming to standard	EN 60335-1; CE
Approval	EAC

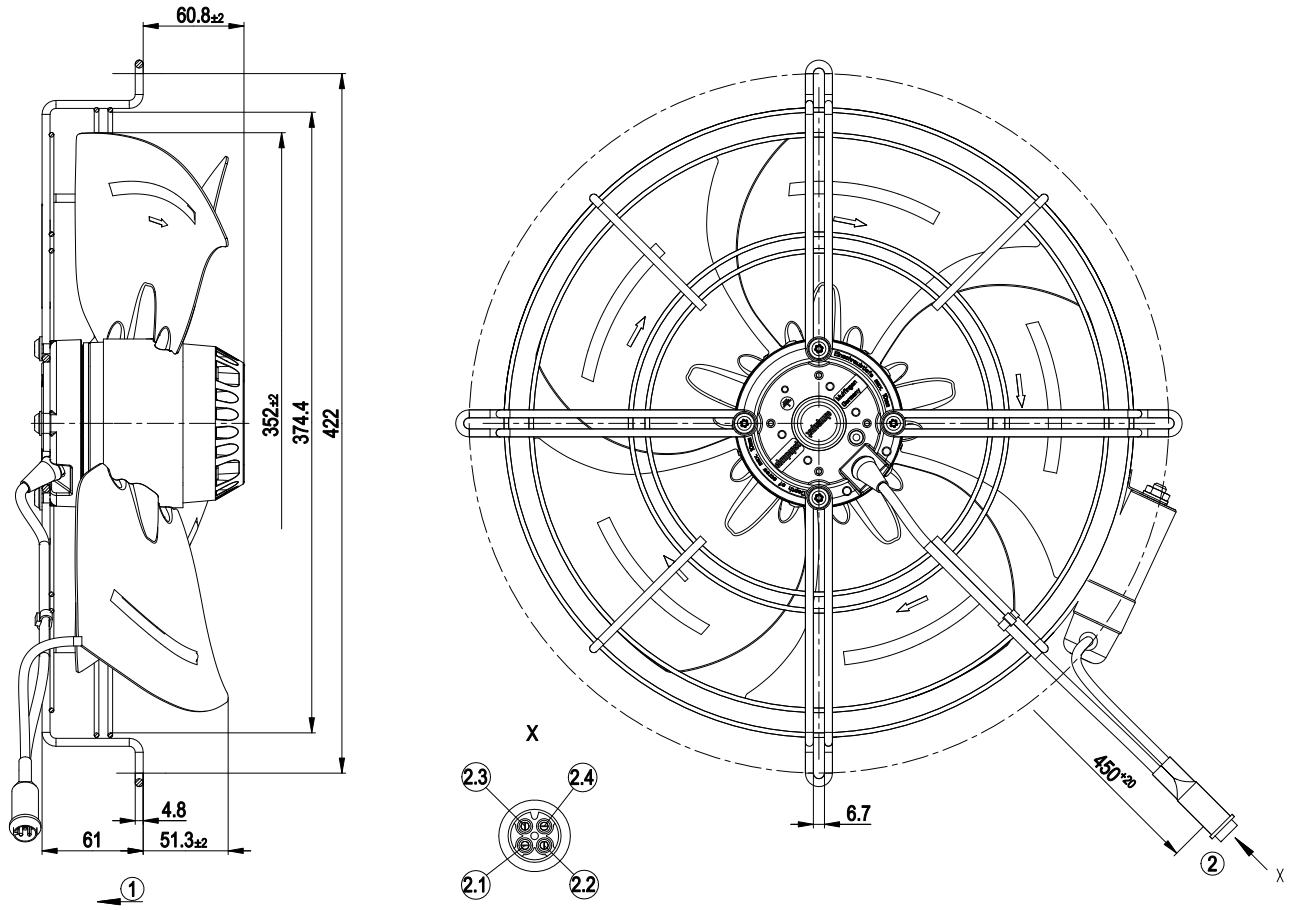
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Product drawing



1	Direction of air flow "V"
2	Connection line silicone 4G 0.5 mm², 1x AMP connector housing Mate-N-Lok 0925075-0 with 2x plug pin Mate-N-Lok 163303-8 and 2x plug pin Mate-N-Lok 163555-6 crimped
2.1	green/yellow
2.2	blue
2.3	brown + capacitor
2.4	black + capacitor

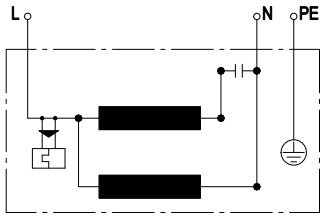
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Connection screen



L	blue	N	black	PE	green/yellow

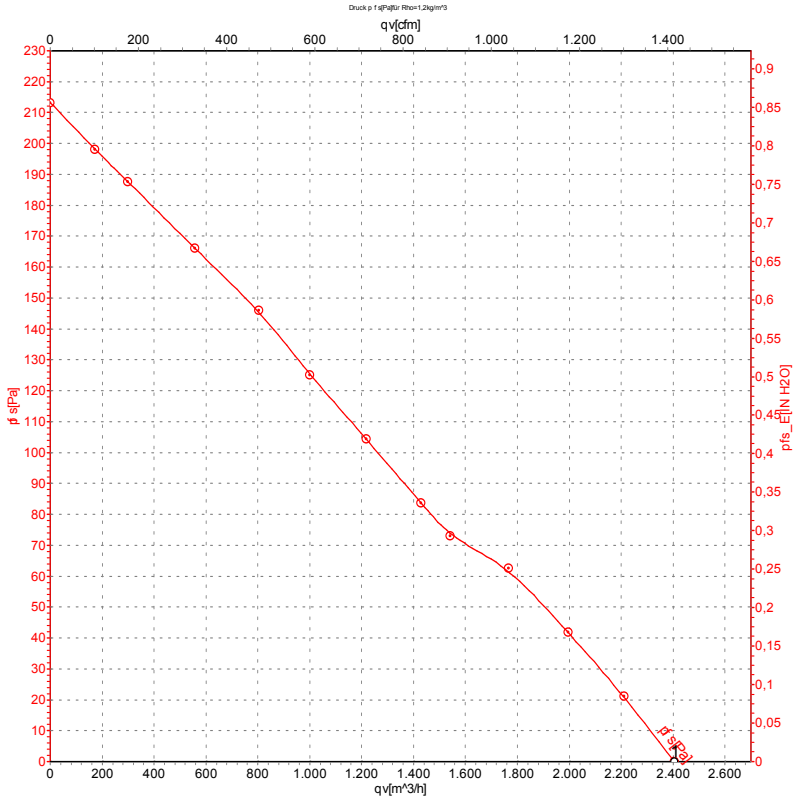
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Charts: Air flow 50 Hz



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_e	I	qv
	V	Hz	min^{-1}	W	A	m^3/h
1	230	50	1420	180	0.80	2405

U = Supply voltage · f = Frequency · n = Speed · P_e = Power input · I = Current draw · qv = Air flow

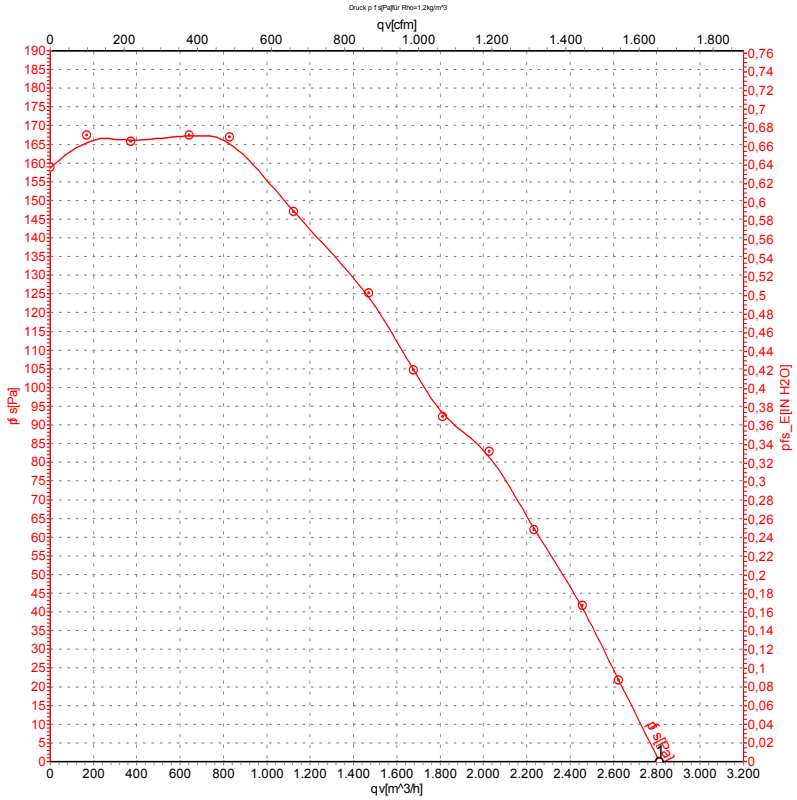
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Charts: Air flow 60 Hz



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_e	I	qv
	V	Hz	min^{-1}	W	A	m^3/h
1	230	60	1660	275	1.20	2815

U = Supply voltage · f = Frequency · n = Speed · P_e = Power input · I = Current draw · qv = Air flow

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