AC centrifugal fan

forward curved, dual inlet

Limited partnership · Headquarters Mulfingen
County court Stuttgart · HRA 590344

General partner Elektrobau Mulfingen GmbH · Headquarters Mulfingen
County court Stuttgart · HRB 590142

Nominal data

Type	**D2E140-HR05-16**
Motor	**M2E068-CF**

Phase		1~	1~
Nominal voltage	VAC	115	115
Frequency	Hz	60	60
Type of data definition		fa	fa
Valid for approval / standard		CE	UL
Speed	min^{-1}	1100	1100
Power input	W	130	142
Current draw	A	1.15	1.25
Motor capacitor	µF	8	8
Capacitor voltage	VDB	220	220
Capacitor standard		P0 (CE)	UL
Min. back pressure	Pa	0	0
Min. ambient temperature	°C	-25	-25
Max. ambient temperature	°C	55	55
Starting current	A	1.15	1.15

ml = max. load · me = max. efficiency · fa = running at free air · cs = customer specs · cu = customer unit
Subject to alterations

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Technical features

Mass	2.3 kg
Size	140 mm
Surface of rotor	Uncoated
Material of impeller	PP plastic, white
Housing material	PP plastic, black
Motor suspension	Motor mounted via brackets on one side
Direction of rotation	Clockwise, seen on rotor
Type of protection	IP 44
Insulation class	"F"
Humidity class	F0
Max. permissible ambient motor temp. (transp./ storage)	+ 80 °C
Min. permissible ambient motor temp. (transp./storage)	- 40 °C
Mounting position	Any
Condensate discharge holes	None
Operation mode	S1
Motor bearing	Ball bearing
Speed steps	4
Touch current acc. IEC 60990 (measuring network Fig. 4, TN system)	< 0.75 mA
Electrical leads	Via terminal box, integrated capacitor connected via terminal box; With plug
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	UL 1004-1; CSA C22.2 Nr.100

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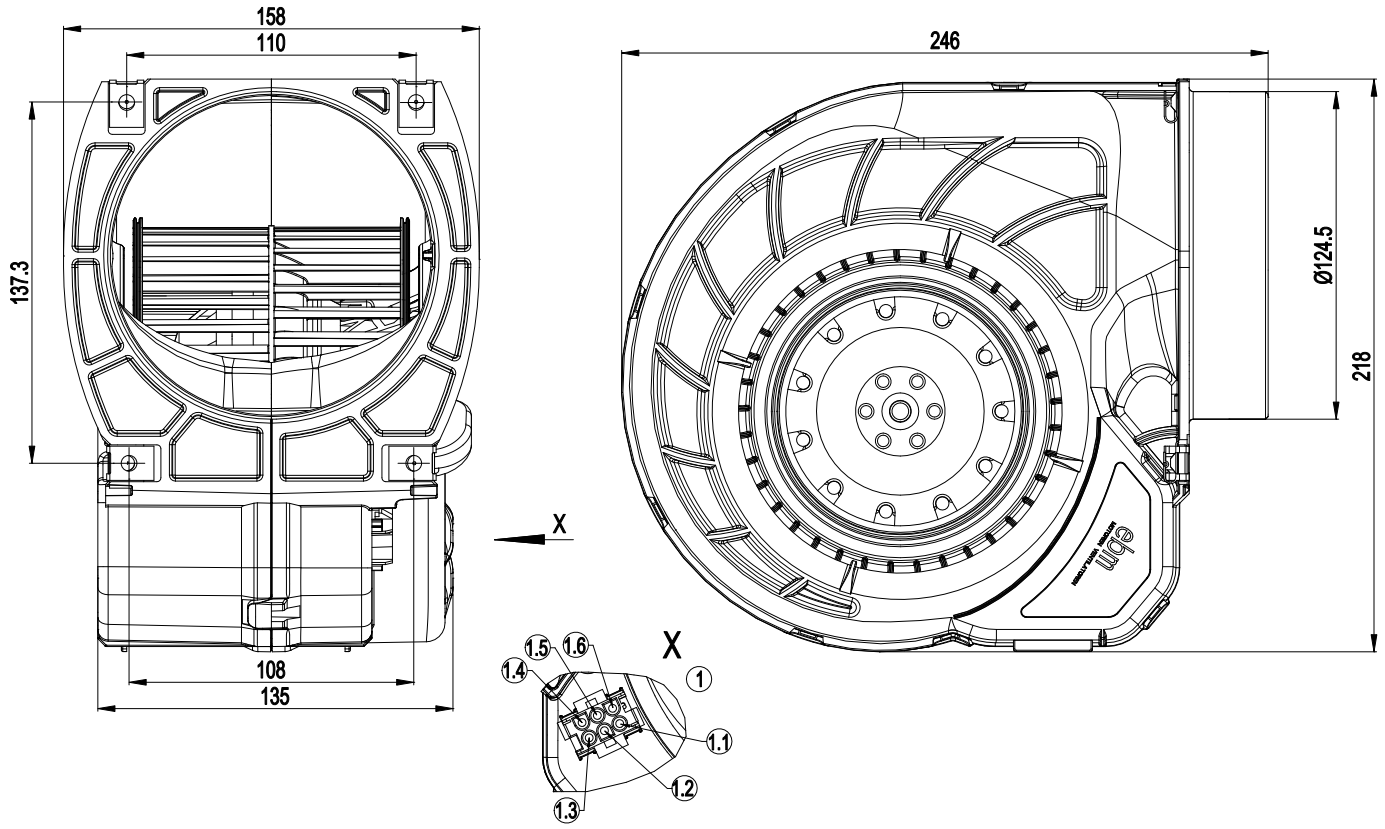
Product drawing



1	Connector housing AMP Mate-N-Lok 350 715-4
1.1	L= Stage 4 (max.)
1.2	N
1.3	Protective earth
1.4	L= Stage 3
1.5	L = step 2
1.6	L= Stage 1

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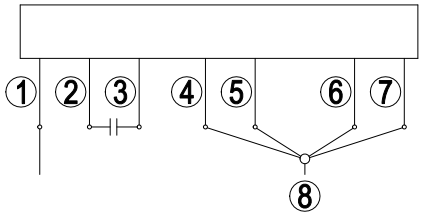
Connection screen



Note: fast speed (step IV); slow speed (step I); the switch must interrupt the circuit during the changeover.

1	= N = blue
2	brown
3	yellow
4	Step I black 1 / white
5	Step II black 2 / red
6	Step III black 3 / grey
7	Step IV black 4 / black
8	L1

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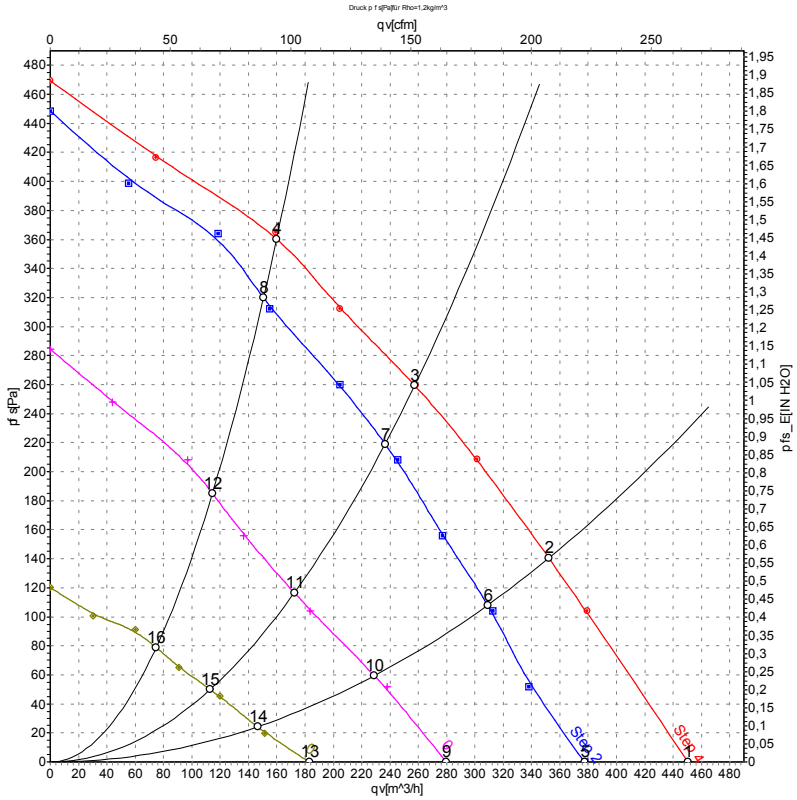
Charts: Air flow 60 Hz



Measurement: LU-59048
Measurement: LU-59049
Measurement: LU-59050
Measurement: LU-59051

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

	Stage	U	f	n	P_e	I	qv	p_{fs}
		V	Hz	min^{-1}	W	A	m^3/h	Pa
1	4	115	60	1100	130	1.15	450	0
2	4	115	60	1650	127	1.11	350	140
3	4	115	60	2105	121	1.05	255	260
4	4	115	60	2375	117	1.02	160	360
5	3	115	60	940	98	0.88	380	0
6	3	115	60	1430	97	0.87	310	109
7	3	115	60	1940	92	0.85	235	220
8	3	115	60	2245	88	0.82	150	319
9	2	115	60	730	74	0.70	280	0
10	2	115	60	1045	71	0.68	230	60
11	2	115	60	1420	69	0.67	170	116
12	2	115	60	1725	67	0.66	115	185
13	1	115	60	475	54	0.54	185	0
14	1	115	60	715	52	0.53	145	24
15	1	115	60	970	52	0.53	115	50
16	1	115	60	1135	51	0.52	75	79

U = Supply voltage · f = Frequency · n = Speed · P_e = Power input · I = Current draw · qv = Air flow · p_{fs} = Pressure increase