R3G355-AM36-78

EC centrifugal fan

backward curved, single inlet

R3G355-AM36-78 ebmpapst Datasheet
sales@fansco.com
www.fansco.com

Nominal data

Type	**R3G355-AM36-78**
Motor	**M3G084-FA**

Phase		1~
Nominal voltage	VAC	115
Nominal voltage range	VAC	100 .. 130
Frequency	Hz	50/60
Type of data definition		ml
Speed	min^{-1}	1650
Power input	W	355
Current draw	A	4.1
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

EC centrifugal fan

backward curved, single inlet

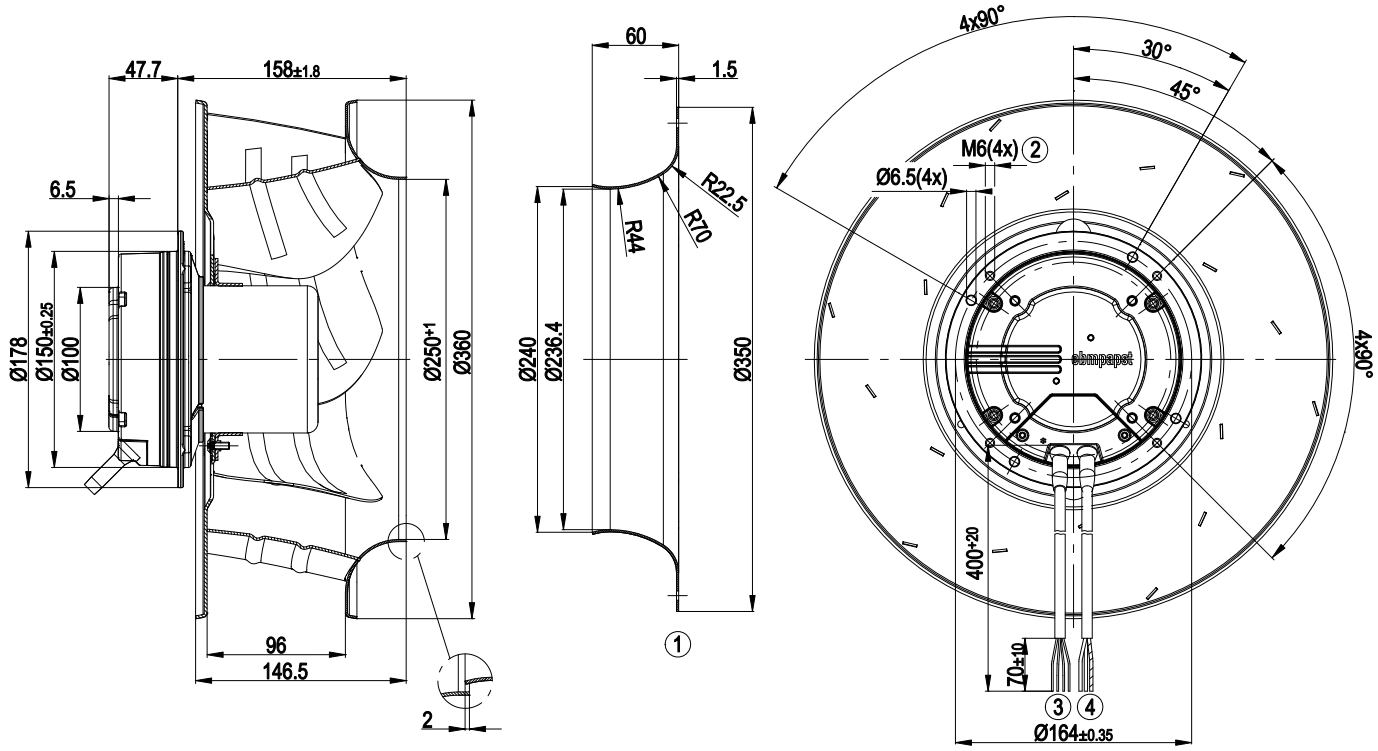
Technical features

Mass	5.75 kg
Size	355 mm
Surface of rotor	Coated in black
Material of electronics housing	Die-cast aluminium
Material of impeller	Aluminium sheet
Number of blades	6
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 top; rotor on bottom on request
Condensate discharge holes	None
Operation mode	S1
Motor bearing	Ball bearing
Technical features	- Output 10 VDC, max. 1.1 mA - Tach output - Motor current limit - Soft start - Control input 0-10 VDC / PWM - Over-temperature protected electronics / motor - Line undervoltage detection
EMC interference immunity	Acc. to EN 61000-6-2 (industrial environment)
EMC interference emission	Acc. to EN 61000-6-3 (household environment)
Touch current acc. IEC 60990 (measuring network Fig. 4, TN system)	<= 3.5 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 61800-5-1
Approval	UL 2111; CSA C22.2 Nr.77

EC centrifugal fan

backward curved, single inlet

Product drawing

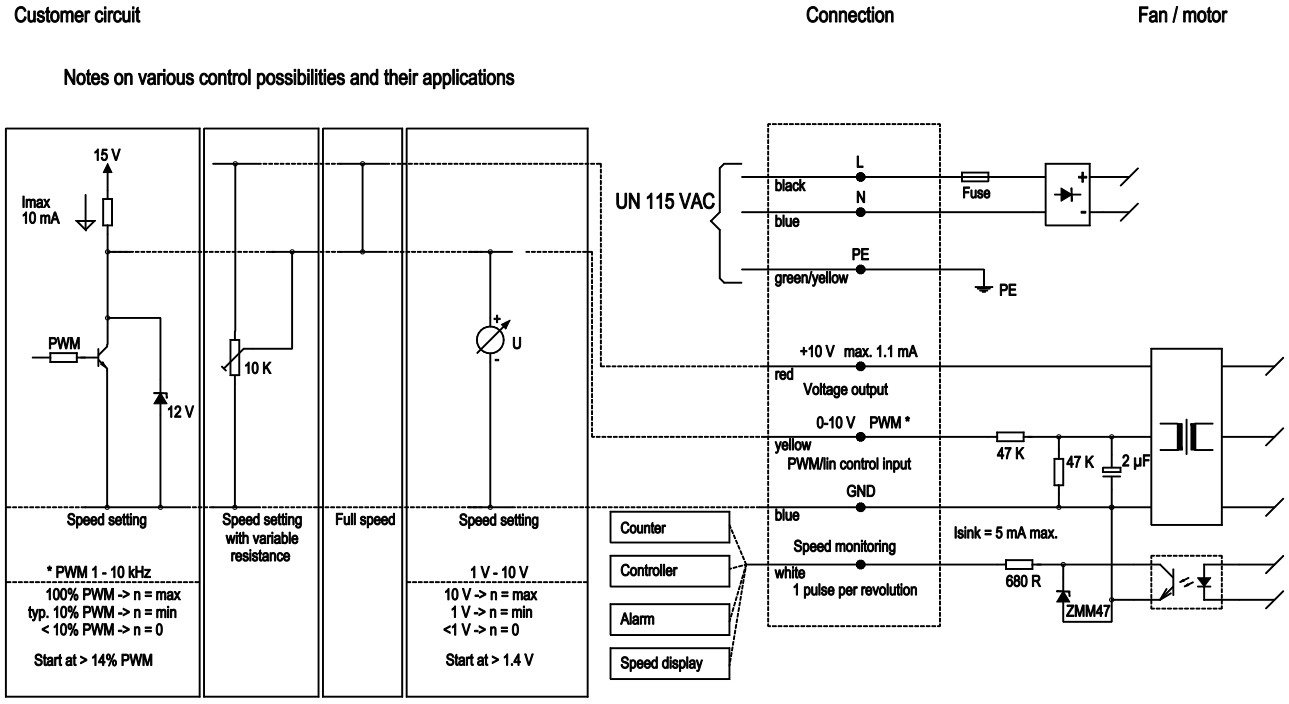


1	Accessory part: inlet nozzle 35560-2-4013 not included in the standard scope of delivery; other inlet nozzles on request
2	Depth of screw 8 - 10 mm
3	Connecting line PVC AWG22, 4 x lead ends without stripped insulation
4	Connecting line PVC AWG18, 3 x lead ends without stripped insulation

EC centrifugal fan

backward curved, single inlet

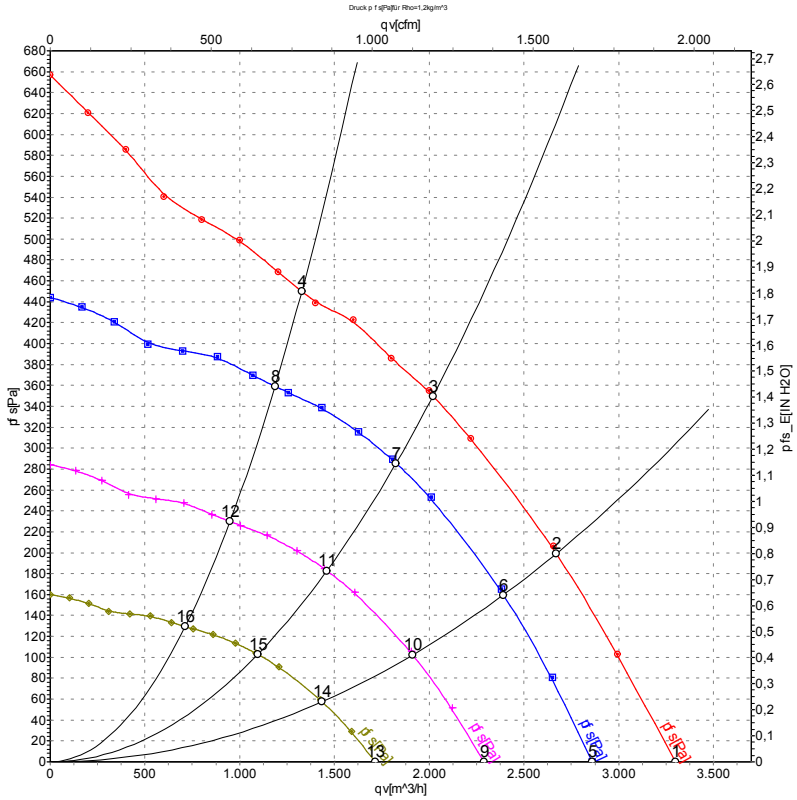
Connection screen



EC centrifugal fan

backward curved, single inlet

Charts: Air flow 50 Hz



Measurement: LU-71711

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	qv	p_{fs}
	V	Hz	min^{-1}	W	A	m^3/h	Pa
1	115	50	1730	278	3.24	3300	0
2	115	50	1675	337	3.87	2670	200
3	115	50	1650	355	4.10	2020	350
4	115	50	1680	330	3.78	1330	450
5	115	50	1500	181	2.11	2860	0
6	115	50	1500	242	2.78	2390	162
7	115	50	1500	263	3.00	1825	286
8	115	50	1500	235	2.70	1185	359
9	115	50	1200	93	1.08	2290	0
10	115	50	1200	124	1.43	1915	104
11	115	50	1200	135	1.54	1460	183
12	115	50	1200	120	1.38	950	230
13	115	50	900	39	0.45	1715	0
14	115	50	900	52	0.60	1435	58
15	115	50	900	57	0.65	1095	103
16	115	50	900	51	0.58	710	129

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