

R6E355-AB28-11 ebmpapst Datasheet

sales@fansco.com

www.fansco.com

Nominal data

Type	R6E355-AB28-11		
Motor	M6E074-DF		
Phase		1~	1~
Nominal voltage	VAC	230	230
Frequency	Hz	50	60
Method of obtaining data		fa	fa
Valid for approval/standard		CE	CE
Speed (rpm)	min ⁻¹	910	1000
Power consumption	W	80	110
Current draw	A	0.36	0.49
Capacitor	μF	2.5	2.5
Capacitor voltage	VDB	400	400
Capacitor standard		S2 (CE)	S2 (CE)
Min. back pressure	Pa	0	0
Min. back pressure	inH ₂ O	0	0
Min. ambient temperature	°C	-25	-25
Max. ambient temperature	°C	60	50

ml = Max. load · me = Max. efficiency · fa = Free air · cs = Customer specification · ce = Customer equipment
Subject to change

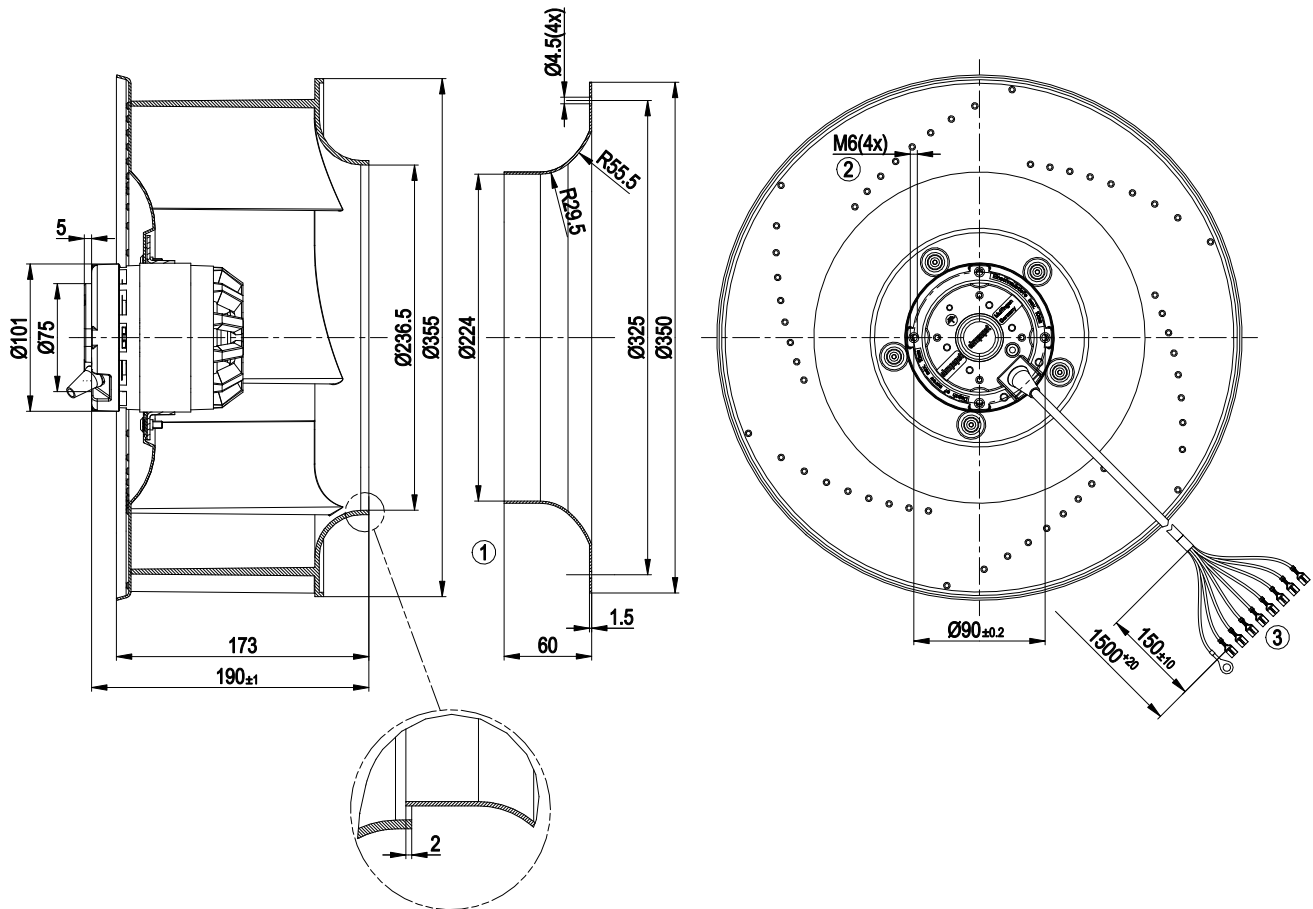


Technical description

Weight	4.2 kg
Fan size	355 mm
Impeller material	PA plastic
Number of blades	6
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
Speed levels	5
Touch current according to IEC 60990 (measuring circuit Fig. 4, TN system)	< 0.75 mA
Motor protection	Thermal overload protector (TOP) internally connected
With cable	Variable
Protection class	I (with customer connection of protective earth)
Conformity with standards	EN 60335-1; CE
Approval	CCC; CSA C22.2 No. 100; UL 1004-1

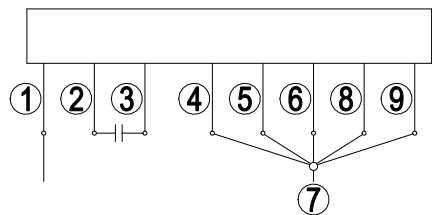


Product drawing



- | | |
|---|--|
| 1 | Accessory part: inlet ring 51357-2-4013 not included in scope of delivery |
| 2 | Max. clearance for screw 10 mm |
| 3 | Cable PFA 9G, 8 x flat push-on receptacle AMP 2-520405-2 and 1x ring terminal 160102-2 crimped |

Connection diagram



Note: High speed (step V); low speed (step I)

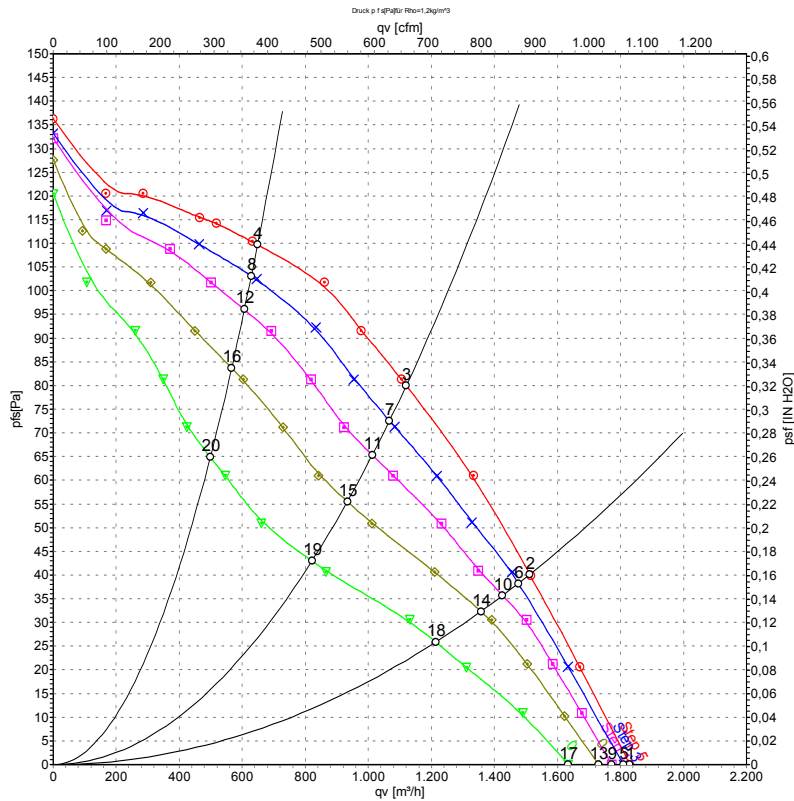
1	= N = blue	2	brown	3	yellow
4	Step I white	5	Step II red	6	Step III gray
7	L1	8	Step IV orange	9	Step V black



AC centrifugal fan

backward-curved, single-intake

Curves: Air performance 50 Hz



Measurement: LU-31523-1
 Measurement: LU-31526-1
 Measurement: LU-31527-1
 Measurement: LU-31525-1
 Measurement: LU-31524-1

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

	Stage	U	f	n	P _e	I	q _v	P _{fs}	q _v	P _{fs}
		V	Hz	min ⁻¹	W	A	m³/h	Pa	cfm	inH ₂ O
1	5	230	50	910	80	0.36	1830	0	1075	0.00
2	5	230	50	885	85	0.37	1510	40	890	0.16
3	5	230	50	845	90	0.39	1120	80	660	0.32
4	5	230	50	870	86	0.38	650	110	380	0.44
5	4	230	50	900	72	0.32	1810	0	1065	0.00
6	4	230	50	855	78	0.35	1475	39	870	0.16
7	4	230	50	810	83	0.36	1065	72	630	0.29
8	4	230	50	840	80	0.35	630	103	370	0.41
9	3	230	50	890	68	0.31	1775	0	1045	0.00
10	3	230	50	835	74	0.33	1425	36	840	0.14
11	3	230	50	770	78	0.35	1015	65	595	0.26
12	3	230	50	810	76	0.34	605	96	355	0.39
13	2	230	50	865	64	0.30	1730	0	1020	0.00
14	2	230	50	790	71	0.32	1360	32	800	0.13
15	2	230	50	710	75	0.34	935	56	550	0.22
16	2	230	50	755	72	0.33	565	84	335	0.34
17	1	230	50	820	60	0.28	1635	0	960	0.00
18	1	230	50	715	66	0.30	1215	26	715	0.10
19	1	230	50	625	69	0.31	820	43	485	0.17
20	1	230	50	665	68	0.31	500	65	295	0.26

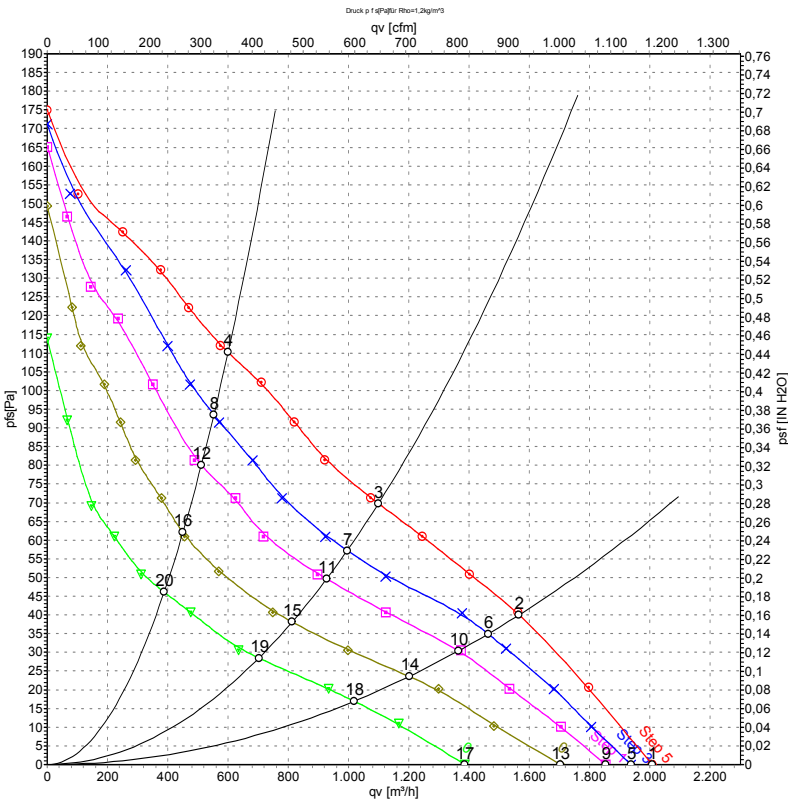
U = Power supply · f = Frequency · n = Speed (rpm) · P_e = Power consumption · I = Current draw · q_v = Air flow · P_{fs} = Pressure increase



AC centrifugal fan

backward-curved, single-intake

Curves: Air performance 60 Hz



Measurement: LU-31528-1
Measurement: LU-31529-1
Measurement: LU-31530-1
Measurement: LU-31531-1
Measurement: LU-31532-1

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

	Stage	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	inH ₂ O
1	5	230	60	1000	110	0.49	2005	0	1180	0.00
2	5	230	60	905	110	0.49	1565	40	920	0.16
3	5	230	60	810	111	0.49	1100	70	645	0.28
4	5	230	60	870	110	0.48	600	110	355	0.44
5	4	230	60	970	98	0.44	1935	0	1140	0.00
6	4	230	60	840	100	0.44	1460	35	860	0.14
7	4	230	60	735	100	0.44	995	57	585	0.23
8	4	230	60	800	100	0.44	555	94	325	0.38
9	3	230	60	930	91	0.42	1855	0	1090	0.00
10	3	230	60	790	93	0.42	1365	31	805	0.12
11	3	230	60	680	94	0.42	925	50	545	0.20
12	3	230	60	735	93	0.42	510	80	300	0.32
13	2	230	60	850	83	0.39	1705	0	1000	0.00
14	2	230	60	690	84	0.38	1200	24	705	0.10
15	2	230	60	600	85	0.38	810	38	480	0.15
16	2	230	60	650	84	0.38	450	62	265	0.25
17	1	230	60	710	74	0.35	1385	0	815	0.00
18	1	230	60	595	74	0.35	1020	17	600	0.07
19	1	230	60	525	75	0.35	700	28	415	0.11
20	1	230	60	560	75	0.35	390	46	230	0.18

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