R4E310-AP11-09/F01

AC centrifugal fan

backward curved, single inlet

Nominal data

Motor	M4E074-DF		
Phase		1~	1~
Nominal voltage	[V]	230	230
Frequency	[Hz]	50	60
Type of data definition		rfa	rfa
Valid for approval / standard		CE	CE
Speed	[min^{-1}]	1390	1580
Power input	[W]	115	160
Current draw	[A]	0.52	0.70
Motor capacitor	[µF]	4	4
Capacitor voltage	[VDB]	400	400
Capacitor standard		P0 (CE)	P0 (CE)
Min. back pressure	[Pa]	0	0
Max. ambient temperature	[°C]	65	50

Technical features

Leackage current	< 0.75 mA
Size	310 mm
Operation mode	S1
Direction of rotation	Clockwise, seen on rotor
Mounting position	Shaft horizontal or rotor on bottom; rotor on top on request
Humidity class	F1-2
Insulation class	"F"
Cable exit	Variable
Condensate discharge holes	Rotor-side
Bearing motor	Ball bearing
Mass	3.8 kg
Material of impeller	Sheet aluminium, laser-welded, coated in black
Motor protection	Thermal overload protector (TOP) brought out
Product conforming to standard	CE; EN 60335-1
Surface of rotor	Coated in black
Number of blades	6
Type of protection	IP 44; Depending on installation and position as per EN 60034-5
Protection class	I
Max. permissible ambient motor temp. (transp./ storage)	+ 80 °C
Min. permissible ambient motor temp. (transp./storage)	- 40 °C
Approval	CCC

ebmpapst

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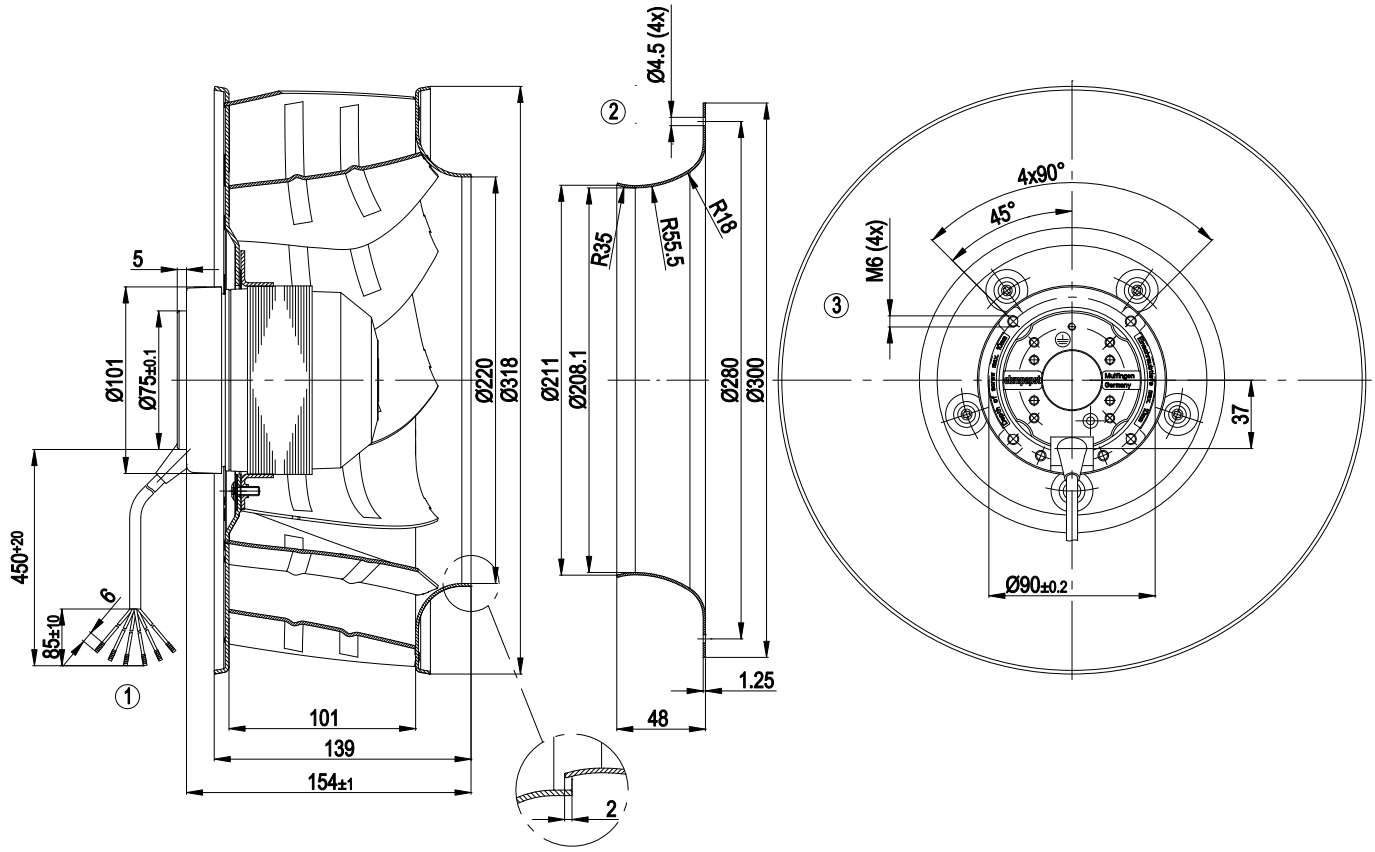
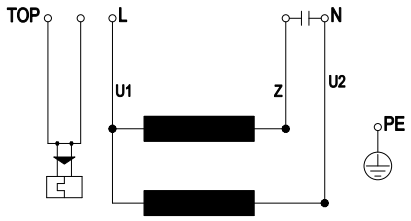
Product drawing



Connection screen



Note: TOP brought out

TOP	2 x grey	U1	blue	Z	brown
U2	black	PE	green / yellow		

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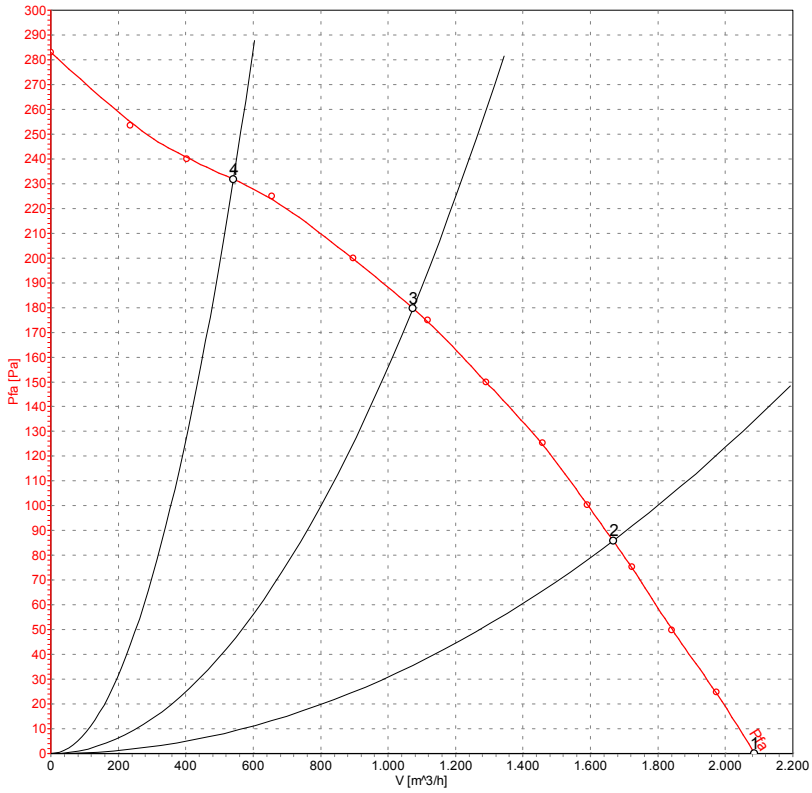
Charts: Air flow 50 Hz



Measured values

	f	n	P_1	I	$\dot{V}$	p_{fa}
	[Hz]	[min^{-1}]	[W]	[A]	[m^3/h]	[Pa]
1	50	1390	115	0.52	2080	0.0
2	50	1350	135	0.60	1665	85.9
3	50	1330	144	0.64	1075	180.0
4	50	1370	125	0.56	540	231.8

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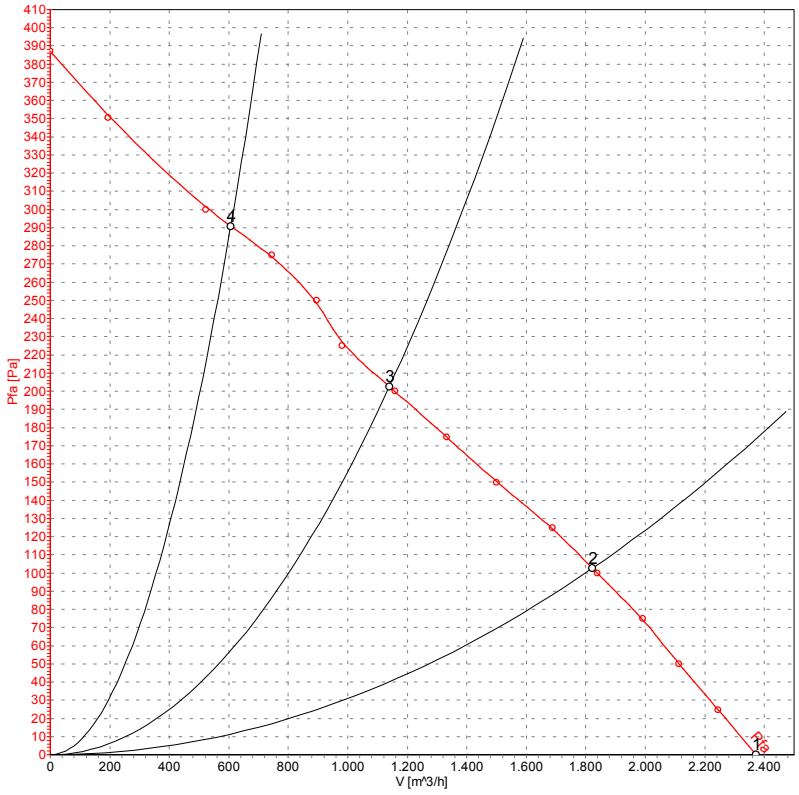
Charts: Air flow 60 Hz



Measured values

	f	n	P_1	I	$\dot{V}$	p_{fa}
	[Hz]	[min^{-1}]	[W]	[A]	[m^3/h]	[Pa]
1	60	1580	160	0.70	2370	0.0
2	60	1475	188	0.82	1820	102.5
3	60	1410	199	0.87	1140	202.6
4	60	1530	174	0.76	605	290.7