EC centrifugal fan

backward-curved, single-intake

Nominal data

Type	**R1G180-AT09-16**	
Motor	**M1G074-BF**	
Nominal voltage	VDC	110
Nominal voltage range	VDC	90 .. 110
Method of obtaining data		fa
External electronics		77674-1-0173
Speed (rpm)	min^{-1}	2750
Power consumption	W	130
Current draw	A	1.2
Min. ambient temperature	°C	-25
Max. ambient temperature	°C	30

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

EC centrifugal fan

backward-curved, single-intake

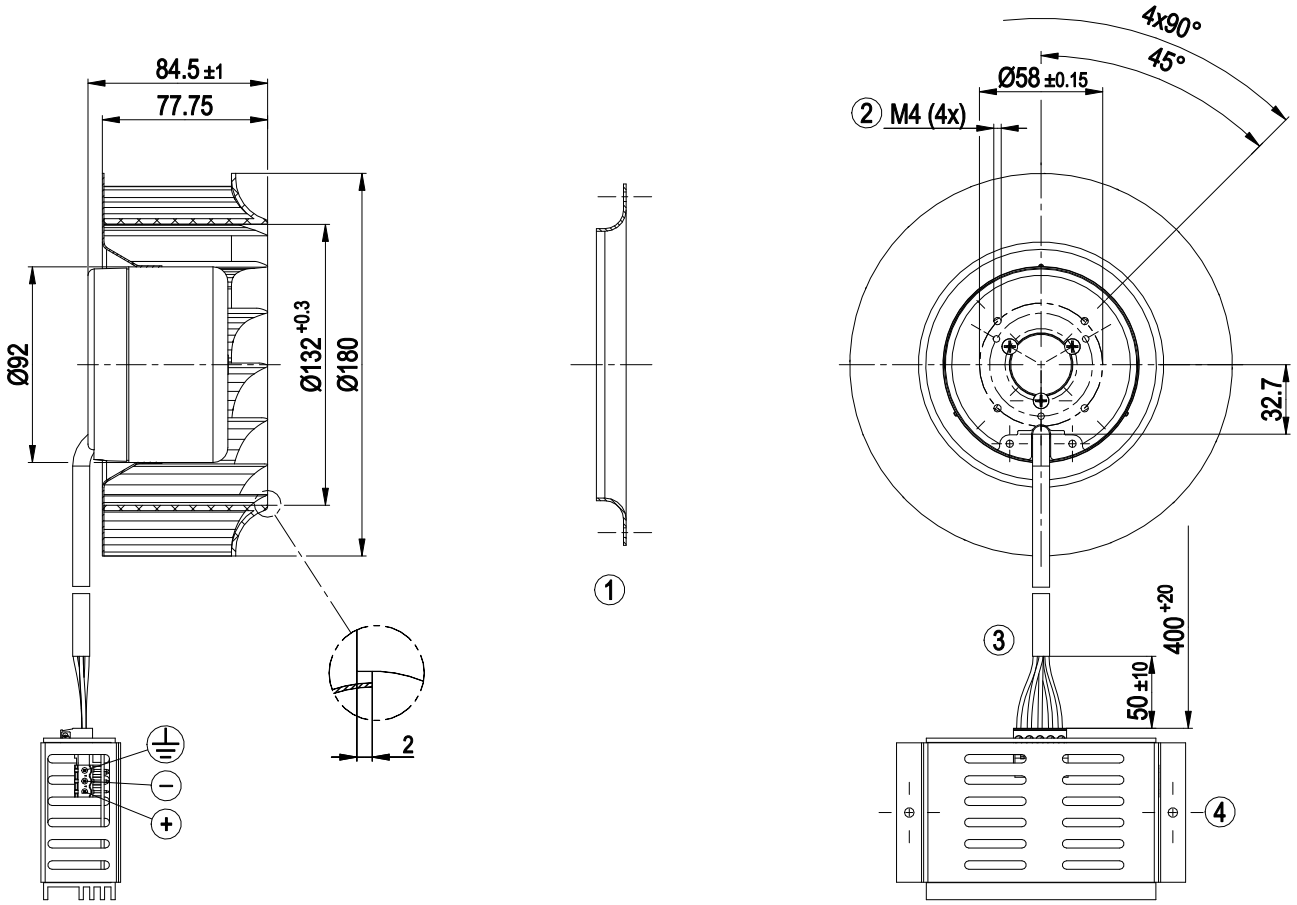
Technical description

Weight	1.7 kg
Fan size	180 mm
Rotor surface	Painted black
Impeller material	PA plastic, galvanized sheet-metal plate
Number of blades	16
Direction of rotation	Clockwise, viewed toward rotor
Degree of protection	IP44
Insulation class	"B"
Moisture (F) / Environmental (H) protection class	F2-1
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
Mode	S1
Motor bearing	Ball bearing
Electrical hookup	With plug
Motor protection	Reverse polarity and locked-rotor protection
With cable	Variable
Conformity with standards	EN 60950-1
Approval	CCC

EC centrifugal fan

backward-curved, single-intake

Product drawing

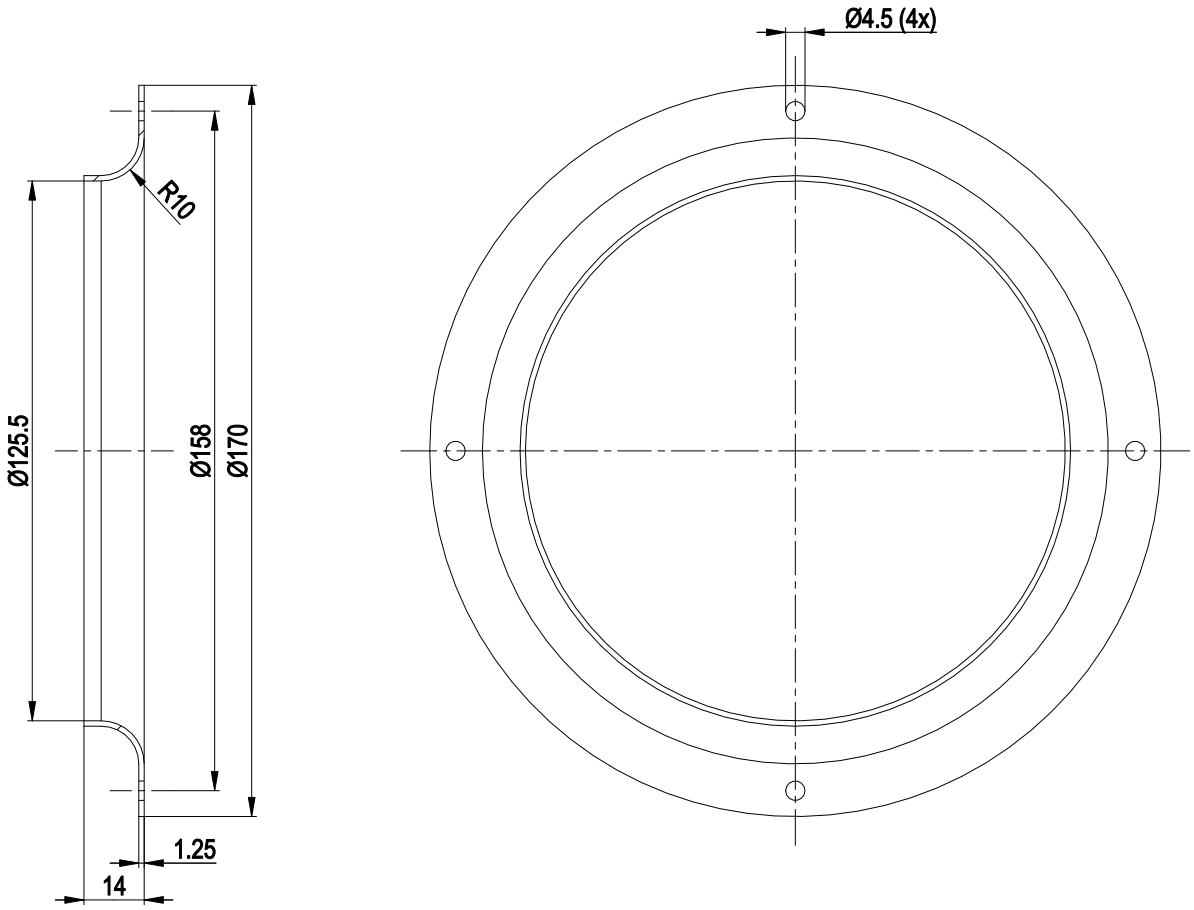


1	Accessory part: Inlet ring 09576-2-4013 not included in scope of delivery
2	Max. clearance for screw 6 mm
3	Cable PVC AWG20, connector housing Phoenix MSTB 2.5/5-ST
4	Accessory parts: Control unit 77674-1-0173 with connector housing Phoenix MSTB 2.5/3-ST for customer interface, included separately

EC centrifugal fan

backward-curved, single-intake

Accessory part

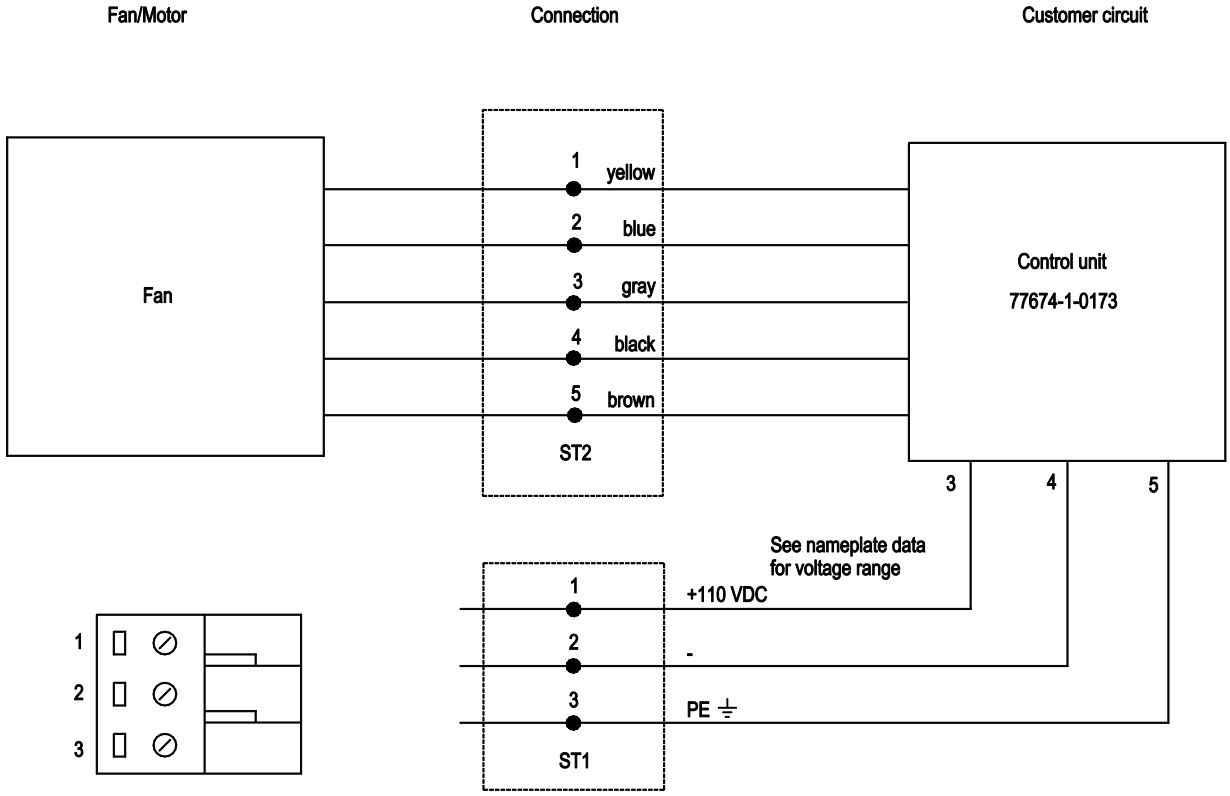


1	Accessory part: inlet ring 09576-2-4013 not included in scope of delivery

EC centrifugal fan

backward-curved, single-intake

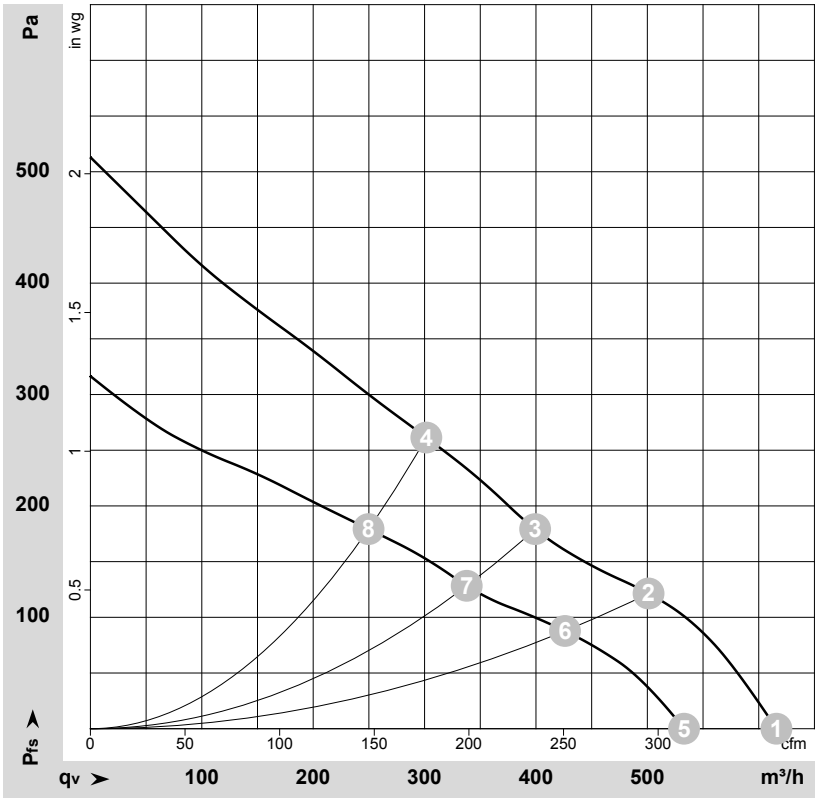
Connection diagram



EC centrifugal fan

backward-curved, single-intake

Curves: Air performance



ρ = 1.15 kg/m³ ± 2 %

Measurement: LU-182357-1
Measurement: LU-182385-1

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

	U	n	P_{ed}	I	q_V	p_{fs}	q_V	p_{fs}
	V	min^{-1}	W	A	m^3/h	Pa	cfm	inH2O
1	110	2850	100	1.20	615	0	365	0.00
2	110	2850	100	1.20	500	120	295	0.48
3	110	2930	97	1.16	400	180	235	0.72
4	110	3110	92	1.07	300	260	180	1.04
5	77	2430	62	0.95	535	0	315	0.00
6	77	2445	61	0.94	425	88	250	0.35
7	77	2495	58	0.90	340	128	200	0.51
8	77	2590	52	0.81	250	179	145	0.72

U = Power supply · n = Speed (rpm) · P_{ed} = Power consumption · I = Current draw · q_V = Air flow · p_{fs} = Pressure increase