

PRODUCT SPECIFICATION

TYPE	EC Backward Centrifugal Fan
MODEL	GC-B450E-EC-05

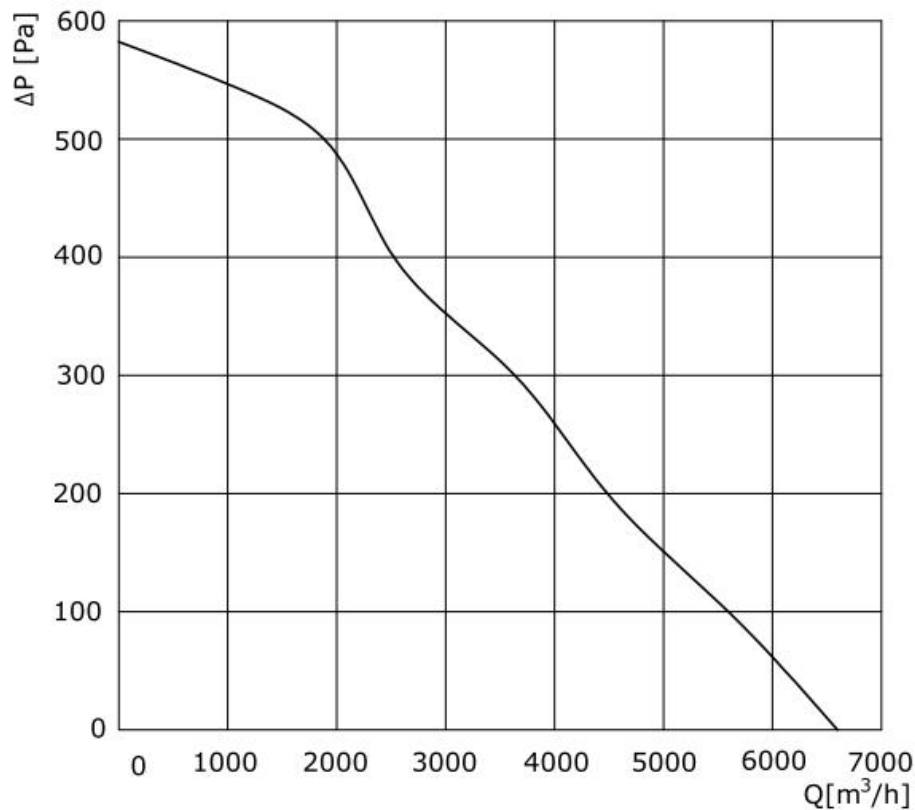
NOMINAL DATA

Phase	-	1~
Nominal Voltage	VAC	115
Frequency	Hz	50/60
Speed	RPM	1650
Power Input	W	700
Current	A	6.2
Sound Pressure Level	dBA	85
Valid For Approval/Standard		CE,ROHS
Min. Ambient Temperature	°C	-25
Max. Ambient Temperature	°C	60

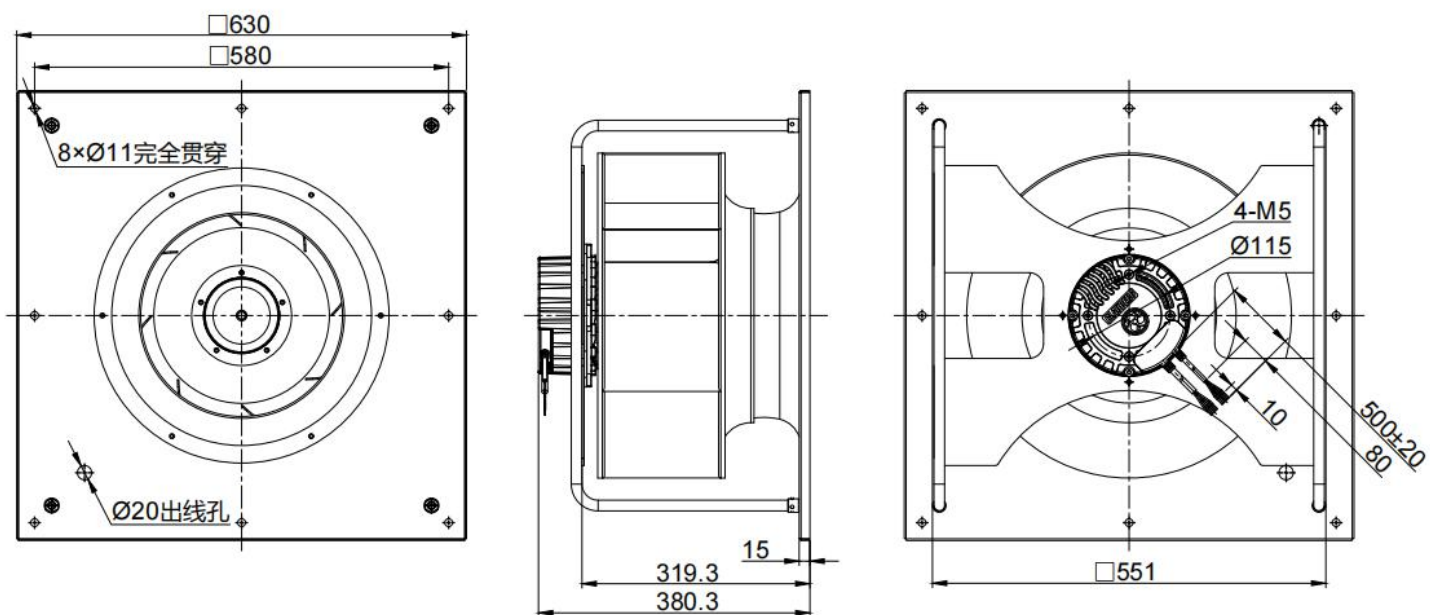
TECHNICAL FEATURES

Dimensions	400 mm
Material Of Impeller	Aluminium alloy
Number Of Blades	11
Direction Of Rotation	Clockwise, seen on rotor
Surface Of Rotor	Painting
Type of protection	IP55
Insulation Class	F
Condensate Discharge Holes	On rotor side
Min./Max. permissible ambient motor temperature (transportable/ storage)	- 40°C ... + 80°C
Operation Mode	S1
Motor Bearing	Ball bearing
Motor Protection	Self-resetting TOP wired internally
Length Of Cable	450~500 mm
RoHS	All material accord with RoHS
Min./Max. Humidity	0% ... 90% RH
Motor	External rotor EC motor
Deviation Of Impeller In Axial Direction	≤ 1 mm
Deviation Of Impeller In Radial Direction	≤ 1 mm

PERFORMANCE CURVES



DIMENSIONS DRAWING



ELECTRICAL CONNECTION DIAGRAMM

Technical features

- ★ Control input 0-10VDC/PWM
- ★ Output 10VDC max.10mA
- ★ PFC
- ★ Integrated PI controller
- ★ RS485 MODBUS-RTU
- ★ Operation and fault indicator
- ★ Thermal overload protection for electronics/motor
- ★ Motor current limitation
- ★ Undervoltage protection
- ★ Locked-rotor protection
- ★ Soft start
- ★ Control interface with SELV potential safely disconnected from supply

Line	Connection	Color	Function
	PE	green/yellow	Protective earth
	U1 L	brown	Power supply, phase
	U2 N	black	Power supply, phase
Power connctet	U3 NC	white	Status relay, floating status contact, break for failure
			Status relay, floating status contact, common connection
	U4 COM	gray	contact rating 250VAC/2A(AC1) min.10mA
			basic insulation on supply side and reinforced insulation on control interface side
	U5 RSA	brown	RS485 interface for MODBUS RSA, SELV
	U6 RSB	gray	RS485 interface for MODBUS RSA, SELV
Control cable	U7 INPUT 0-10V/PWM	yellow	Contorl input 0-10V or PWM, impedance 100KΩ
	U8 FG	white	Tacho output
	U9 +10V	red	Voltage output 10VDC, power supply for external devices, SELV
	U10 GND	blue	Reference ground for control interface, SELV

