EC motor

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Nominal data

Type	**M3G112-EA51-17**
Motor	**M3G112-EA**

Phase		1~
Nominal voltage range	VAC	200 .. 277
Frequency	Hz	50/60
Method of obtaining data		cs
Speed (rpm)	min^{-1}	1150
Power consumption	W	376
Power output	W	340
Current draw	A	1.9 (230V)
Min. ambient temperature	°C	-25
Max. ambient temperature	°C	40

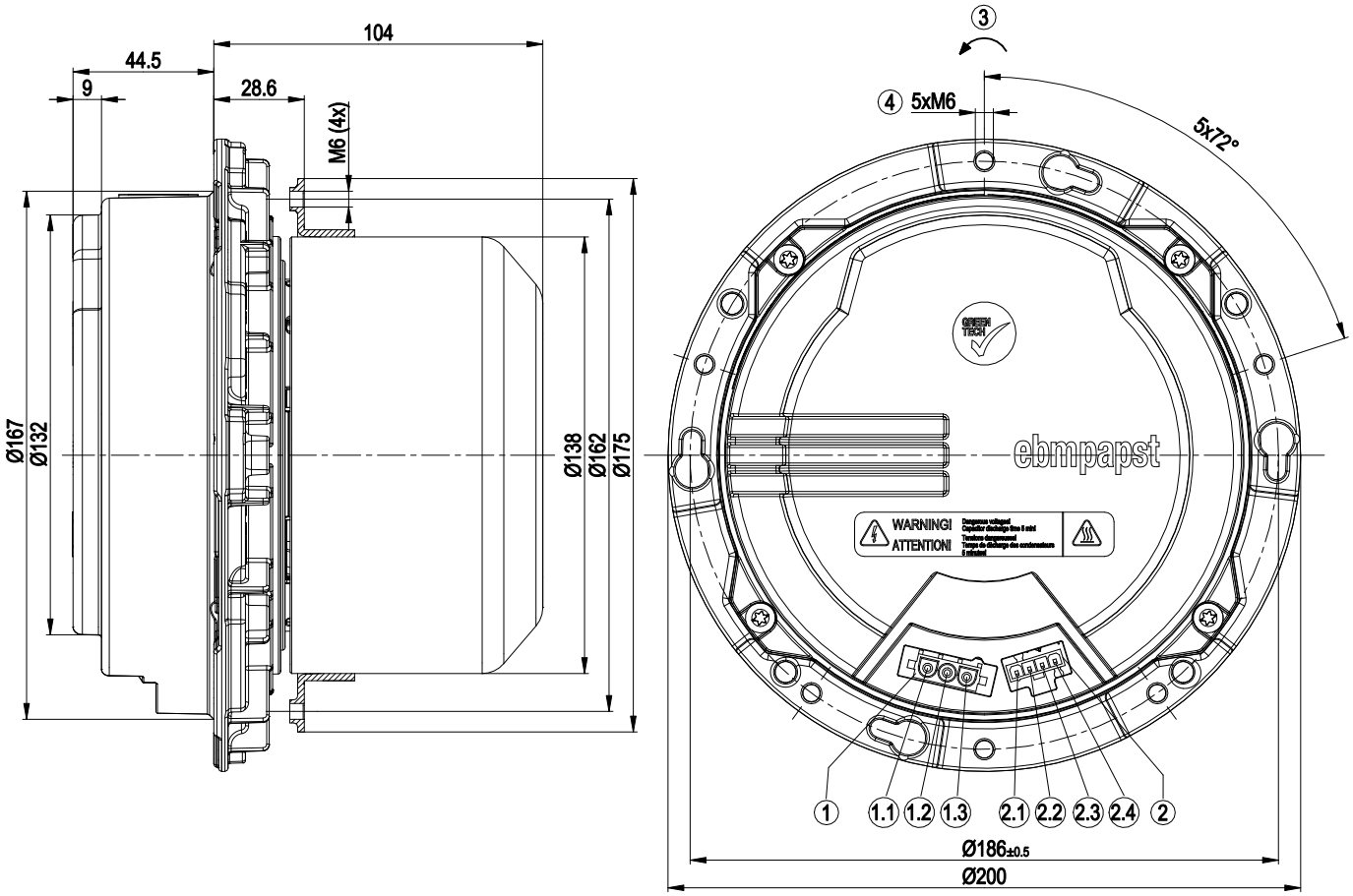
ml = Max. load · me = Max. efficiency · fa = Free air · cs = Customer specification · ce = Customer equipment
Subject to change

Technical description

Weight	6 kg
Fan size	112 mm
Rotor surface	Painted black
Electronics housing material	PA plastic
Direction of rotation	Counterclockwise, viewed toward rotor
Degree of protection	IP20
Insulation class	"B"
Moisture (F) / Environmental (H) protection class	F4-1
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
Technical features	- Operation and alarm display: reversible voltage output 0 V / +15 V - Integrated PID controller - Motor current limitation - PFC, active - RS-485 ebmBUS - Soft start - Control interface with SELV potential safely disconnected from supply - Thermal overload protection for electronics/motor
EMC immunity to interference	According to EN 61000-6-2 (industrial environment)
EMC circuit feedback	According to EN 61000-3-2/3
EMC interference emission	According to EN 61000-6-4 (industrial environment)
Touch current according to IEC 60990 (measuring circuit Fig. 4, TN system)	<= 3.5 mA
Electrical hookup	With plug
Motor protection	Thermal overload protector (TOP) internally connected
With cable	Variable
Protection class	I (with customer connection of protective earth)
Conformity with standards	EN 61800-5-1
Approval	CCC; EAC

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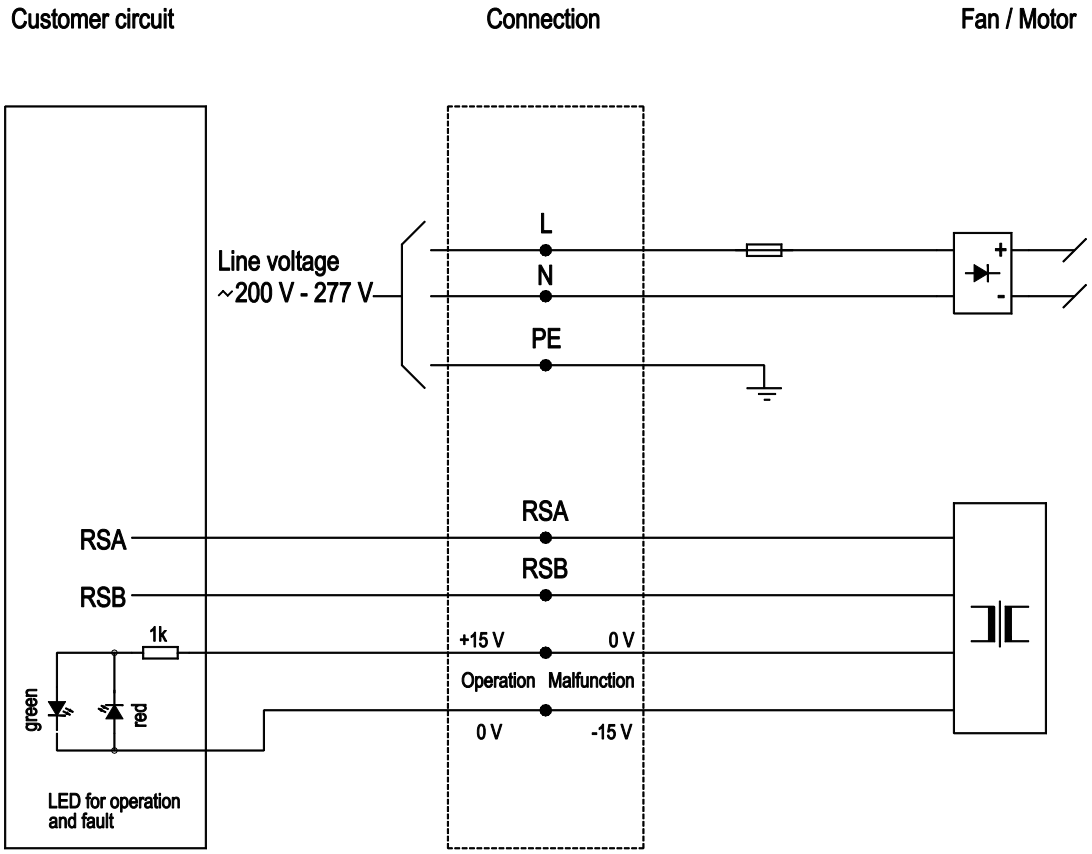
Product drawing



1	Lonco 3-pole header C63502-3A, pluggable with AMP connector housing 350 766-1
1.1	PE
1.2	N
1.3	L
2	4-pole header Molex 39-30-2040, pluggable with Molex connector housing 39-01-4041
2.1	RSB
2.2	RSA
2.3	+15 V-0 V
2.4	0 V-15 V
3	Direction of rotation counterclockwise, viewed toward rotor
4	Max. clearance for screw 16 mm

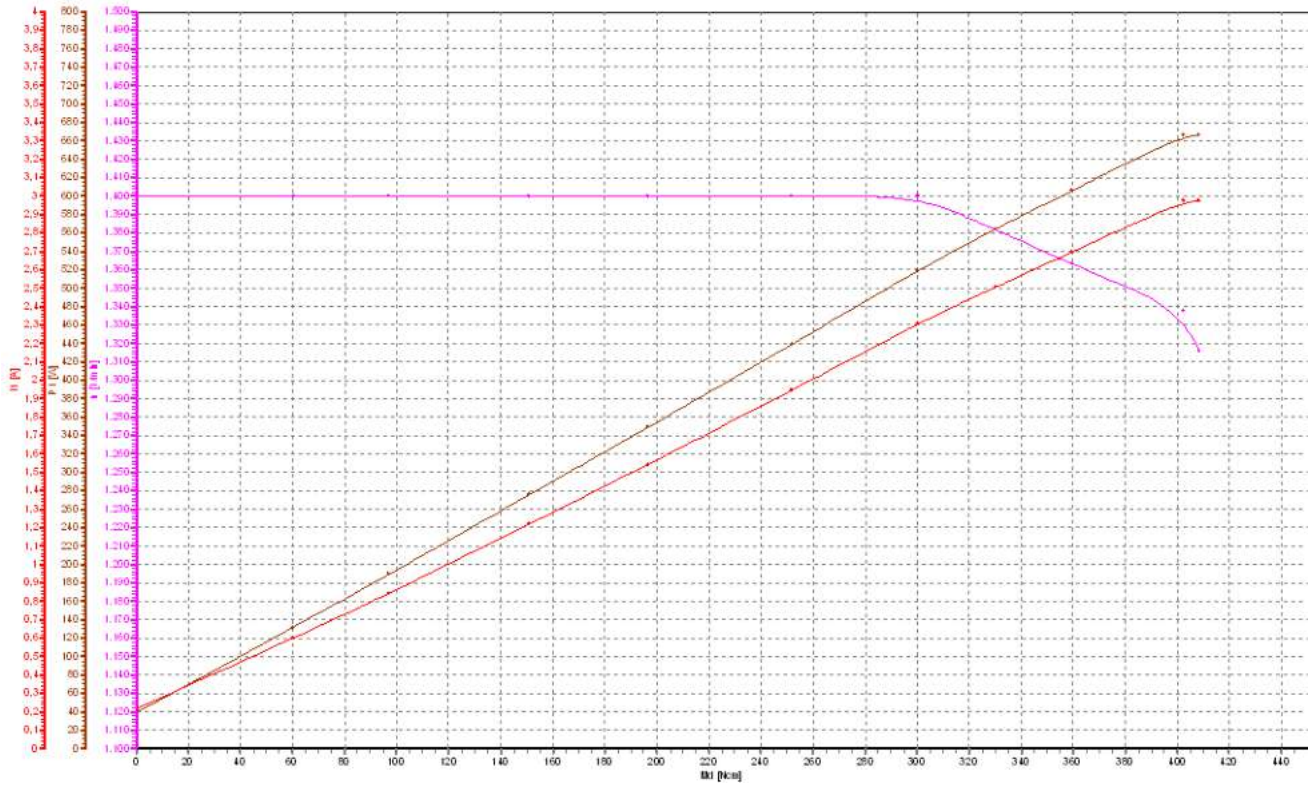
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Connection diagram



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Curves: Speed (rpm)



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