EC motor

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Nominal data

Type	**M3G055-CF01-39**
Motor	**M3G055-CF**

Phase		1~
Nominal voltage	VAC	230
Frequency	Hz	50/60
Type of data definition		ml
Speed	min^{-1}	2800
Power input	W	110
Power output	W	86
Current draw	A	0.88
Rated torque	Ncm	29
Min. ambient temperature	°C	-25
Max. ambient temperature	°C	40

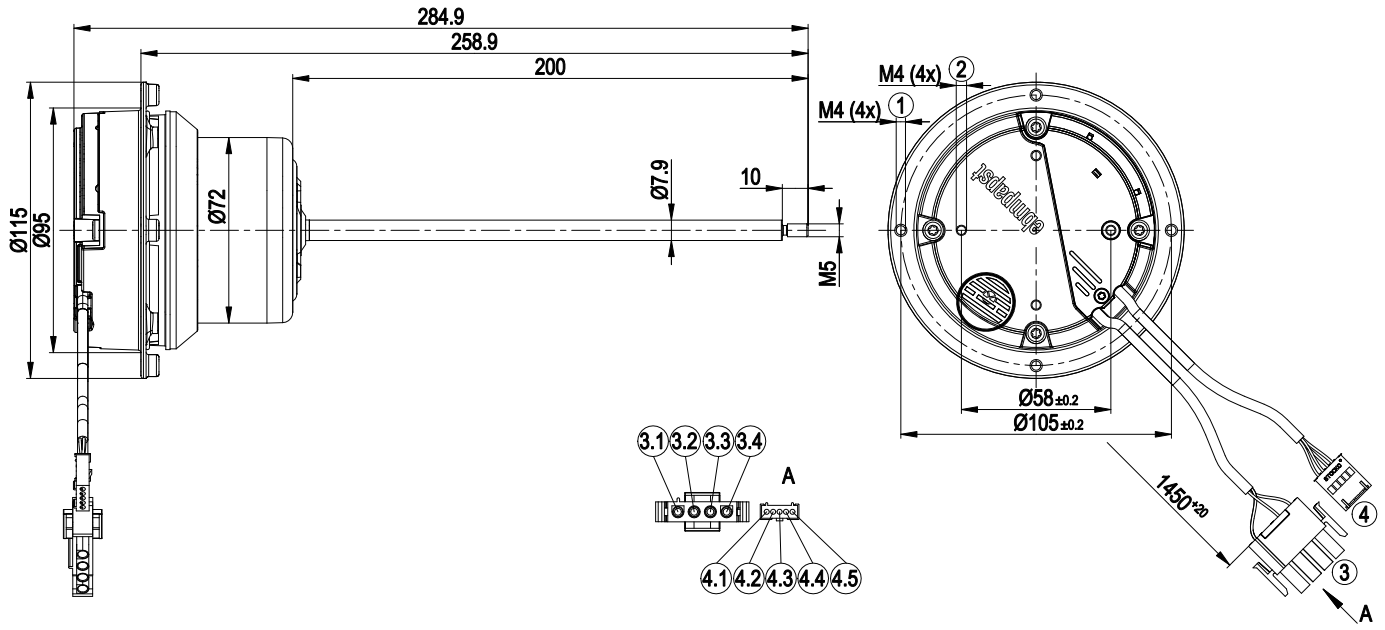
ml = Max. load · me = Max. efficiency · fa = Running at free air · cs = Customer specs · cu = Customer unit
Subject to alterations

Technical features

Mass	1.45 kg
Size	55 mm
Material of electronics housing	Die-cast aluminium
Direction of rotation	Counter-clockwise, seen on rotor
Type of protection	IP 44
Insulation class	"B"
Humidity class	F3-1
Max. permissible ambient motor temp. (transp./ storage)	+ 80 °C
Min. permissible ambient motor temp. (transp./storage)	- 40 °C
Mounting position	Any
Condensate discharge holes	Rotor-side
Cooling bore / aperture	Rotor-side
Operation mode	S1
Motor bearing	Ball bearing
Technical features	- Output 10 VDC, max. 1.1 mA - Tach output - Motor current limit - Soft start - Control input 0-10 VDC / PWM - Control interface with SELV potential safely disconnected from the mains
EMC interference immunity	Acc. to EN 61000-6-2 (industrial environment)
EMC harmonics	Acc. to EN 61000-3-2/3
EMC interference emission	Acc. to EN 61000-6-3 (household environment)
Touch current acc. IEC 60990 (measuring network Fig. 4, TN system)	<= 3.5 mA
Electrical leads	With plug
Motor protection	Thermal overload protector (TOP) wired internally
Cable exit	Variable
Protection class	I (if protective earth is connected by customer)
Approval	UL 2111; CSA C22.2 Nr.77

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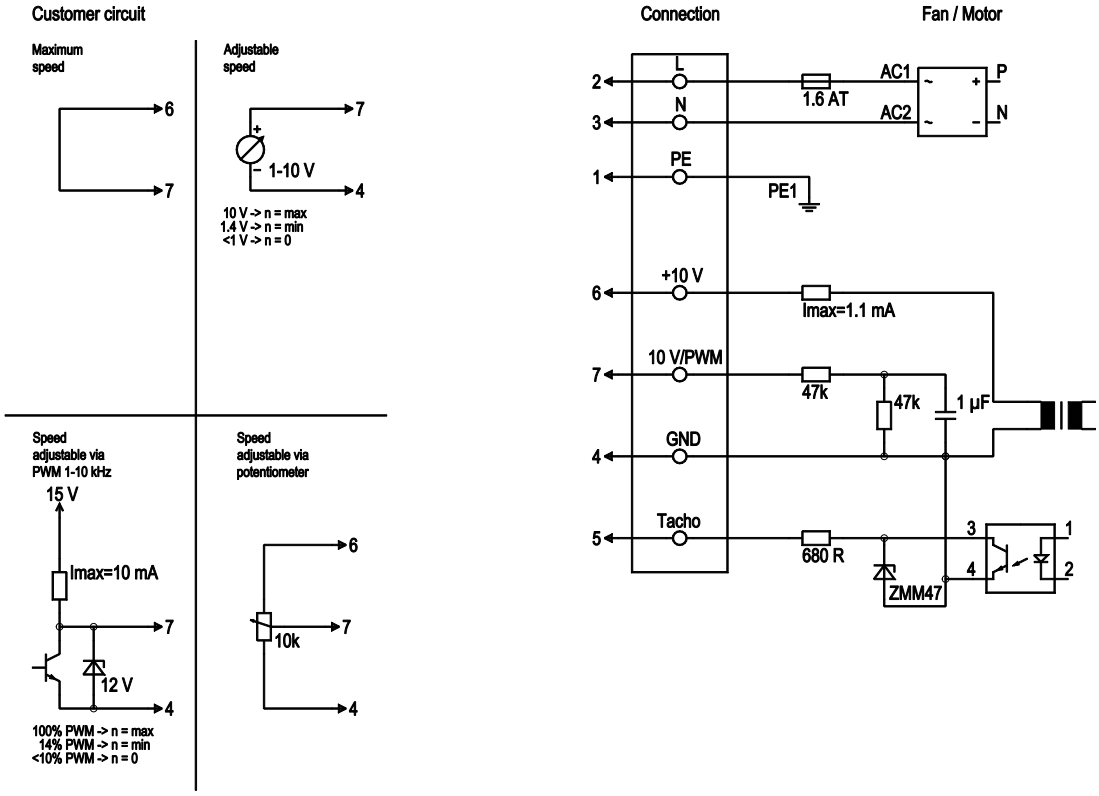
Product drawing



1	Depth of screw max. 5 mm
2	Depth of screw max. 5 mm
3	Connection line PVC 3G AWG20, AMP connector shell 350779-4 with 3x plug pin 926885-1
3.1	PE (green/yellow)
3.2	Not assigned
3.3	N (blue)
3.4	L (black)
4	Connection line PVC 4X AWG22, 1x connector shell Stocko MKH 5135-1-0-500
4.1	Not assigned
4.2	Tach (white)
4.3	GND (blue)
4.4	0-10V / PWM (yellow)
4.5	+10V (red)

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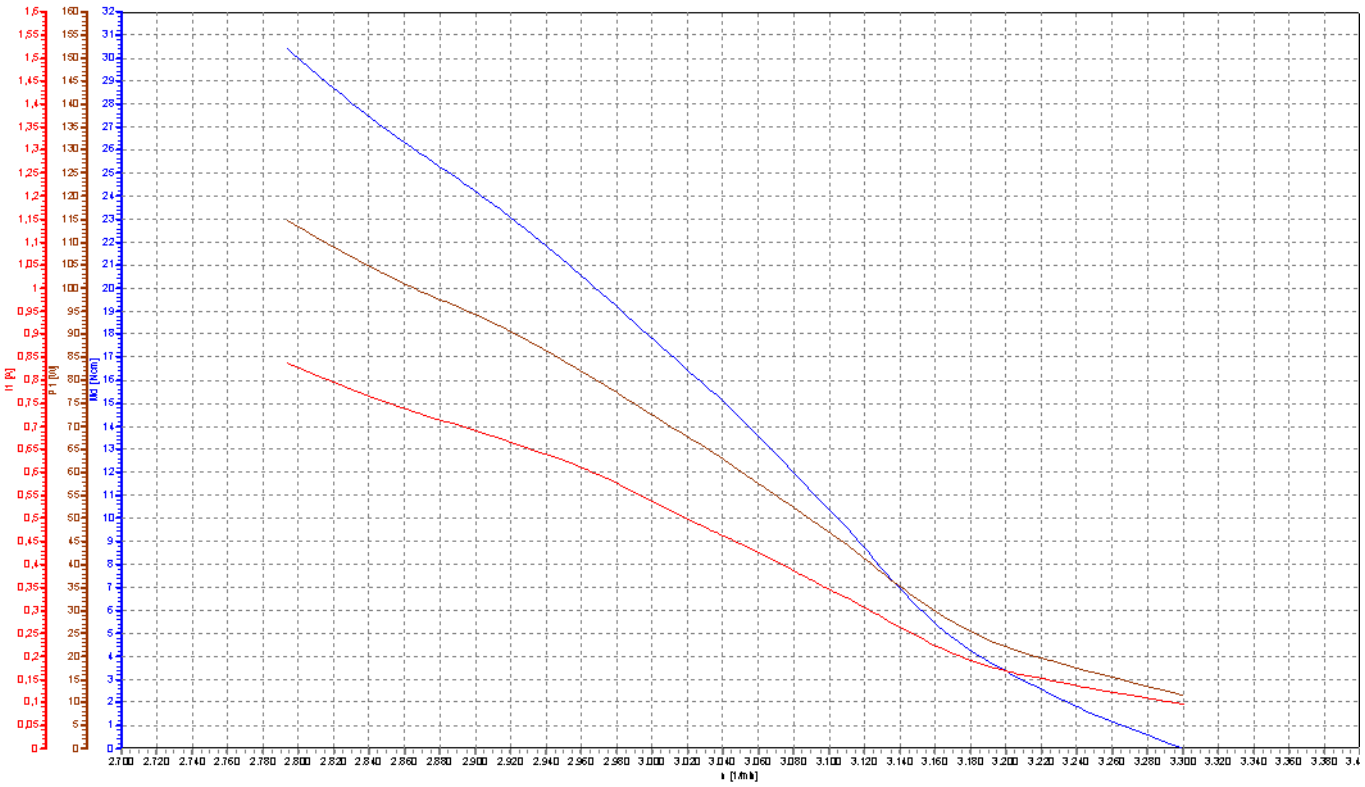
Connection screen



No.	Conn.	Designation	Colour	Function / assignment
1	1	PE	green/yellow	Protective earth
1	2	L	brown	Power supply 230 VAC, 50/60 Hz
1	3	N	blue	Neutral conductor
2	4	GND	blue	GND - connection of the control interface
2	5	Tach	white	Tach output: Open Collector, 1pulse per revolution, galvanically isolated
2	6	10 V	red	Voltage output 10 V / 1 mA, galvanically isolated
2	7	0-10 V PWM	yellow	Control input 0-10 V or PWM, galvanically isolated

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Charts: Speed



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