EC motor

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Nominal data

Type	**M3G055-CF09-40**
Motor	**M3G055-CF**

Phase		1~
Nominal voltage	VAC	230
Nominal voltage range	VAC	200 .. 240
Frequency	Hz	50
Type of data definition		ml
State		prelim.
Speed (rpm)	min^{-1}	1123
Power input	W	33.1
Power output	W	21.2
Current draw	A	0.336
Rated torque	Ncm	18
Min. ambient temperature	°C	-40
Max. ambient temperature	°C	50

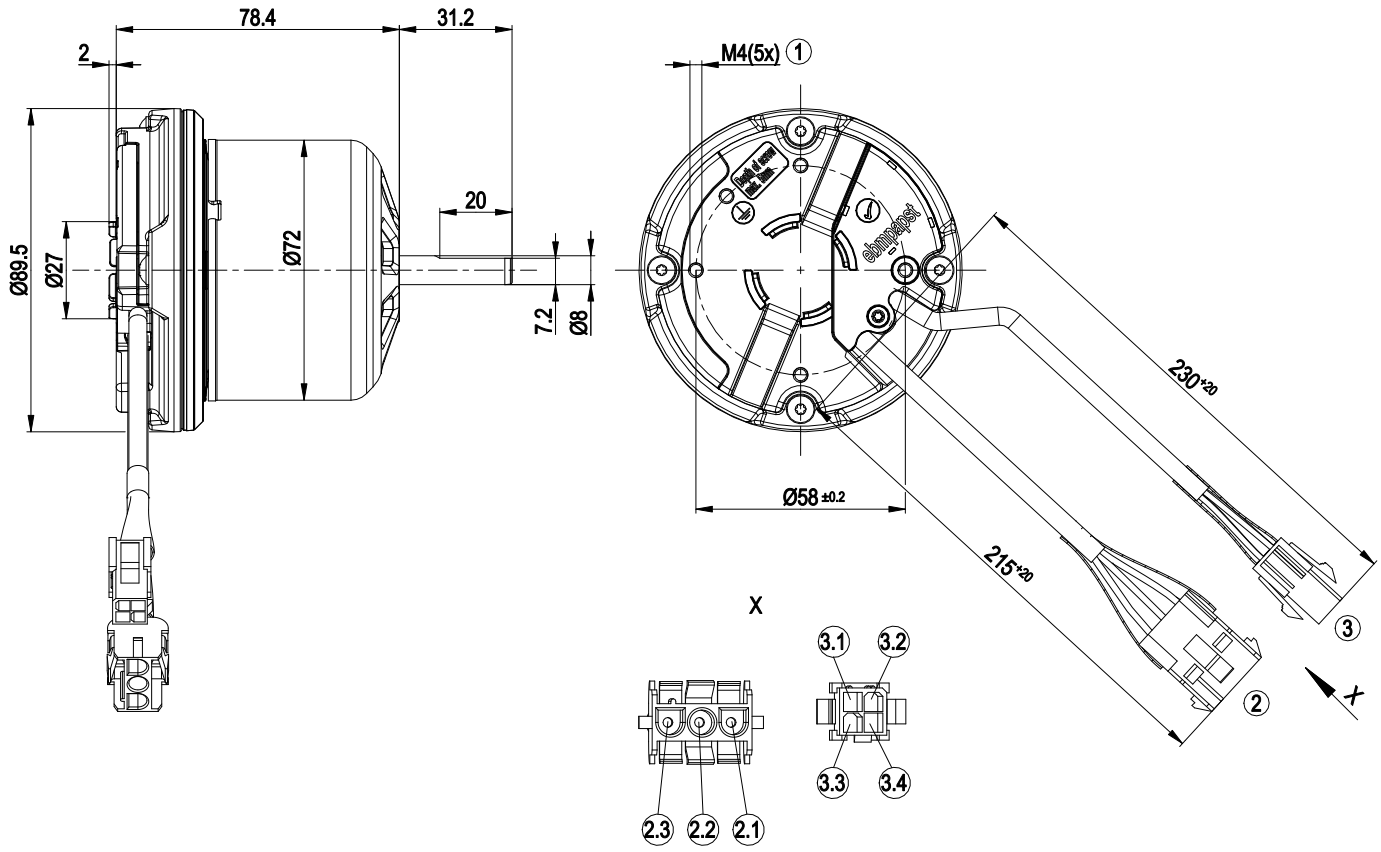
ml = Max. load · me = Max. efficiency · fa = Running at free air · cs = Customer specs · cu = Customer unit
Subject to alterations

Technical features

Mass	1 kg
Motor size	55
Surface of rotor	Thick layer passivated
Direction of rotation	Counter-clockwise, seen on rotor
Type of protection	IP54
Insulation class	"B"
Humidity (F) / environmental protection class (H)	H1
Max. permissible ambient motor temp. (transp./ storage)	+ 80 °C
Min. permissible ambient motor temp. (transp./storage)	- 40 °C
Mounting position	Shaft horizontal or rotor on bottom; rotor on top on request
Condensation drainage holes	None, open rotor
Operation mode	S1
Motor bearing	Hybrid bearing
Technical features	- Output 10 VDC, max. 1.1 mA - Tach output - Output limit - Motor current limit - Soft start - Control input 0-10 VDC / PWM - Control interface with SELV potential safely disconnected from the mains - Overvoltage detection - Over-temperature protected electronics / motor - Line undervoltage detection
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
Motor protection	Electronic motor protection
Cable exit	Variable
Protection class	I (if protective earth is connected by customer)
Product conforming to standard	EN 60034-1; EN 60204-1; CE

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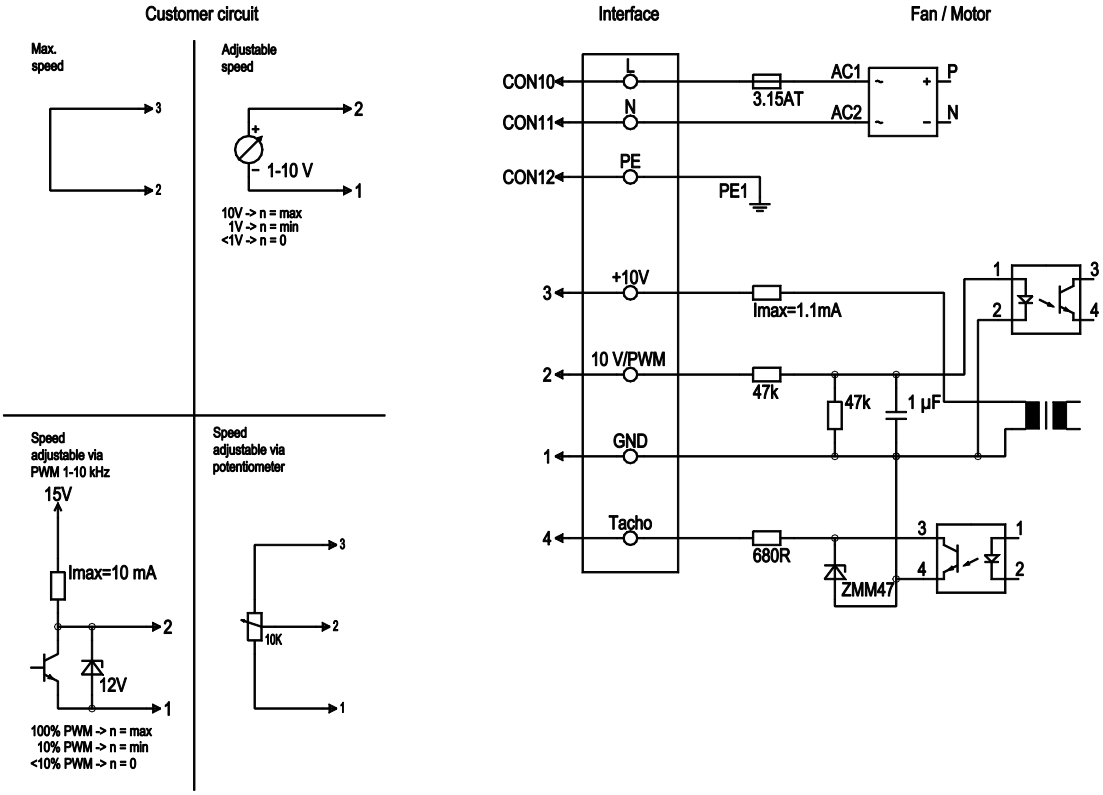
Product drawing



1	Thread reach max. 5 mm
2	Connection line PVC AWG20, connector housing 3-pole tyco 2178474-2, 3x plug pin tyco 350218-1
2.1	L (black)
2.2	PE (green/yellow)
2.3	N (blue)
3	Connection line PVC AWG22, connector housing 4-pole Molex 46993-0410, 4x plug pin Molex 39-00-0040
3.1	+10 V (red)
3.2	Tach (white)
3.3	PWM (yellow)
3.4	GND (blue)

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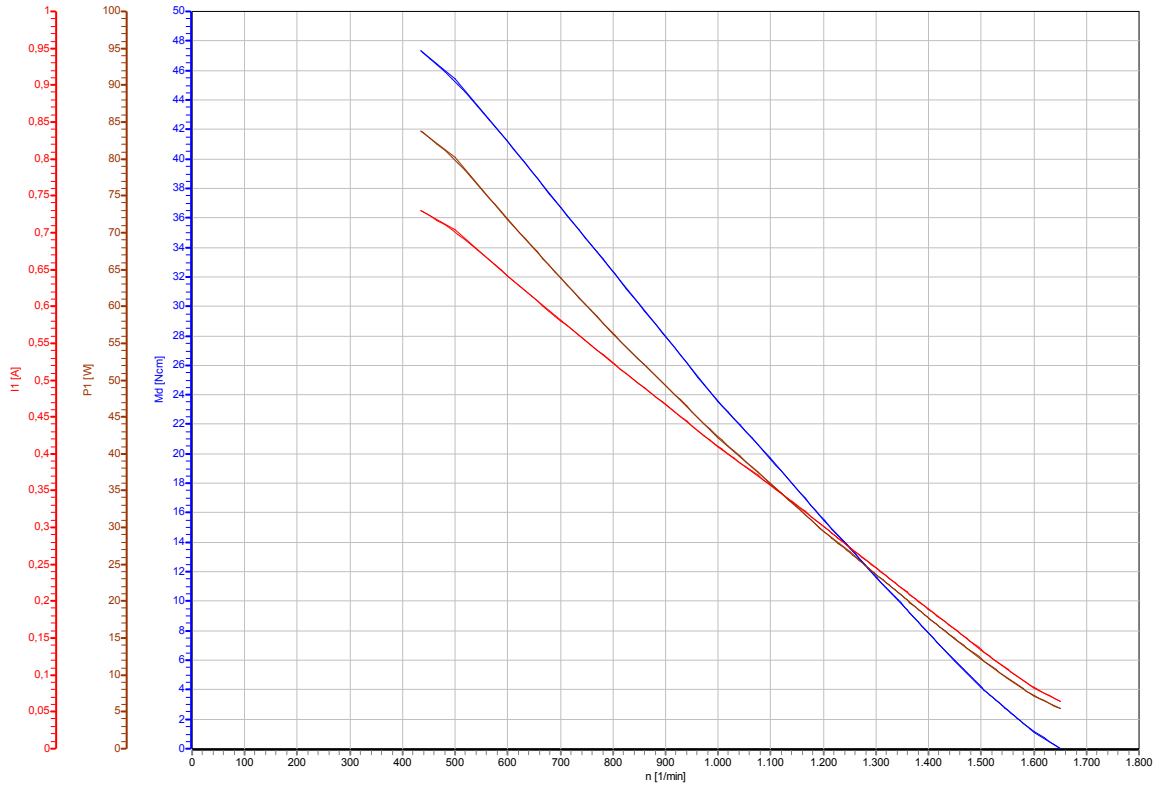
Connection screen



No.	Conn.	Designation	Colour	Function / assignment
	CON10	L	black	Power supply 230 VAC, 50-60 Hz, see type plate for voltage range
	CON11	N	blue	Neutral conductor
	CON12	PE	green/yellow	Protective earth
	1	GND	blue	GND connection for control interface
	2	0-10V PWM	yellow	Control input 0-10 V or PWM, electrically isolated
	3	10 V / max. 1,1 mA	red	Voltage output 10 VDC 1.1 mA, electrically isolated, short-circuit-proof
	4	Tacho	white	Tach output: Open collector, 1 pulse per revolution, electrically isolated

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Charts: Speed (rpm)



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