EC motor

ebm-papst Mulfingen GmbH & Co. KG
Bachmühle 2 · D-74673 Mulfingen
Phone +49 7938 81-0
Fax +49 7938 81-110
info1@de.ebmpapst.com
www.ebmpapst.com

Limited partnership · Headquarters Mulfingen
County court Stuttgart · HRA 590344

General partner Elektrobau Mulfingen GmbH · Headquarters Mulfingen
County court Stuttgart · HRB 590142

Nominal data

Type	**M3G112-EA04-28**
Motor	**M3G112-EA**

Nominal voltage	VDC	370
Nominal voltage range	VDC	344 .. 383
Frequency	Hz	DC
Type of data definition		cs
Speed (rpm)	min^{-1}	4500
Power input	W	1170
Power output	W	1000
Current draw	A	3.1
Rated torque	Ncm	210
Min. ambient temperature	°C	-25
Max. ambient temperature	°C	50

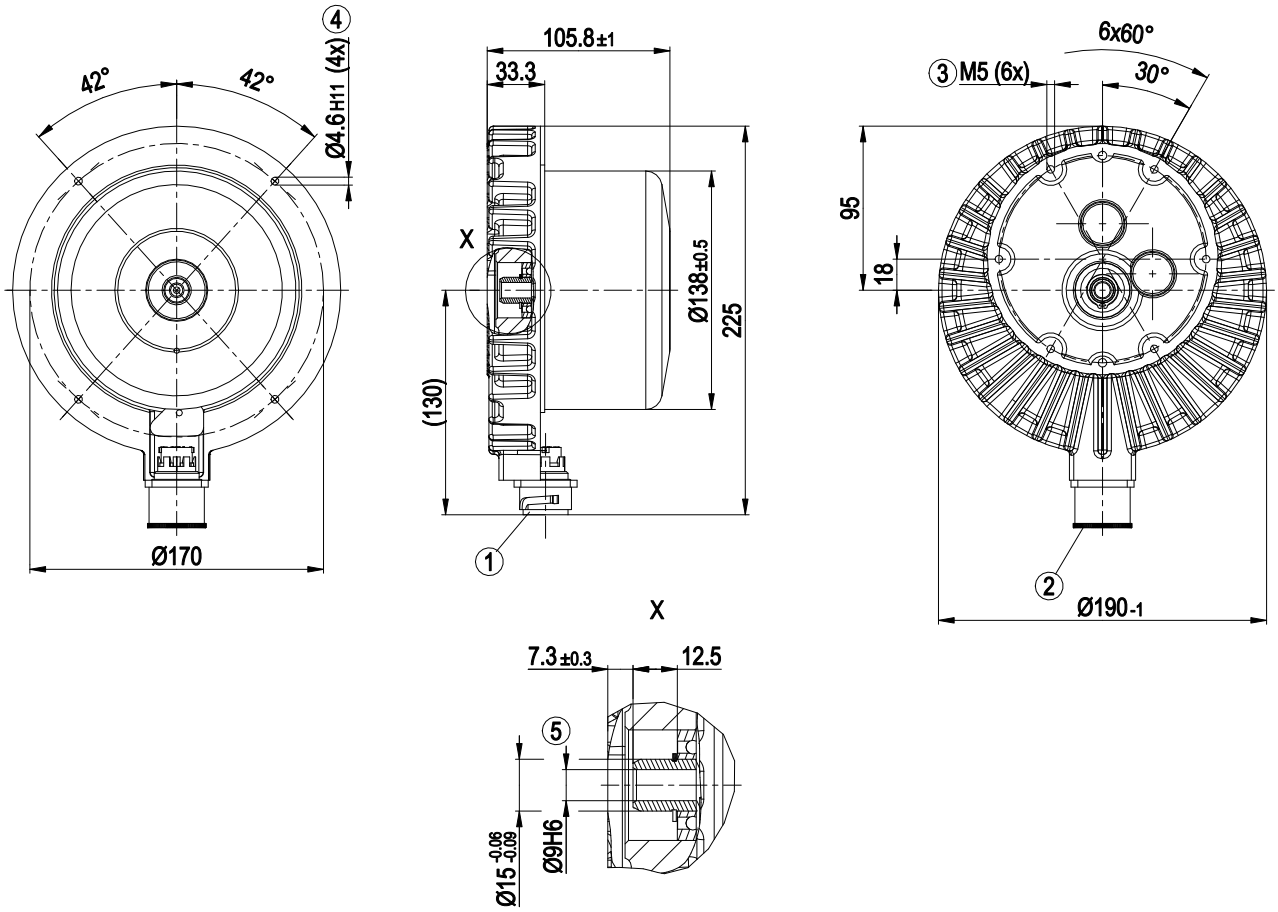
ml = Max. load · me = Max. efficiency · fa = Running at free air · cs = Customer specs · cu = Customer unit
Subject to alterations

Technical features

Mass	5.82 kg
Size	112 mm
Surface of rotor	Coated in black
Stator bush material	Aluminium
Direction of rotation	Right and left
Type of protection	IP 22
Insulation class	"F"
Humidity (F)/environmental protection class (H)	H0 - dry environment
Max. permissible ambient motor temp. (transp./ storage)	+80 °C
Min. permissible ambient motor temp. (transp./storage)	-40 °C
Mounting position	Any
Condensate discharge holes	None
Operation mode	S1
Motor bearing	Ball bearing
Electrical leads	With plug
Cable exit	Lateral
Protection class	I (if protective earth is connected by customer)
Product conforming to standard	EN 61800-5-1
Approval	CSA C22.2 No.100; UL 1004-1

ebm-papst Mulfingen GmbH & Co. KG · Bachmühle 2 · D-74673 Mulfingen · Phone +49 (0) 7938 81-0 · Fax +49 (0) 7938 81-110 · info1@de.ebmpapst.com · www.ebmpapst.com

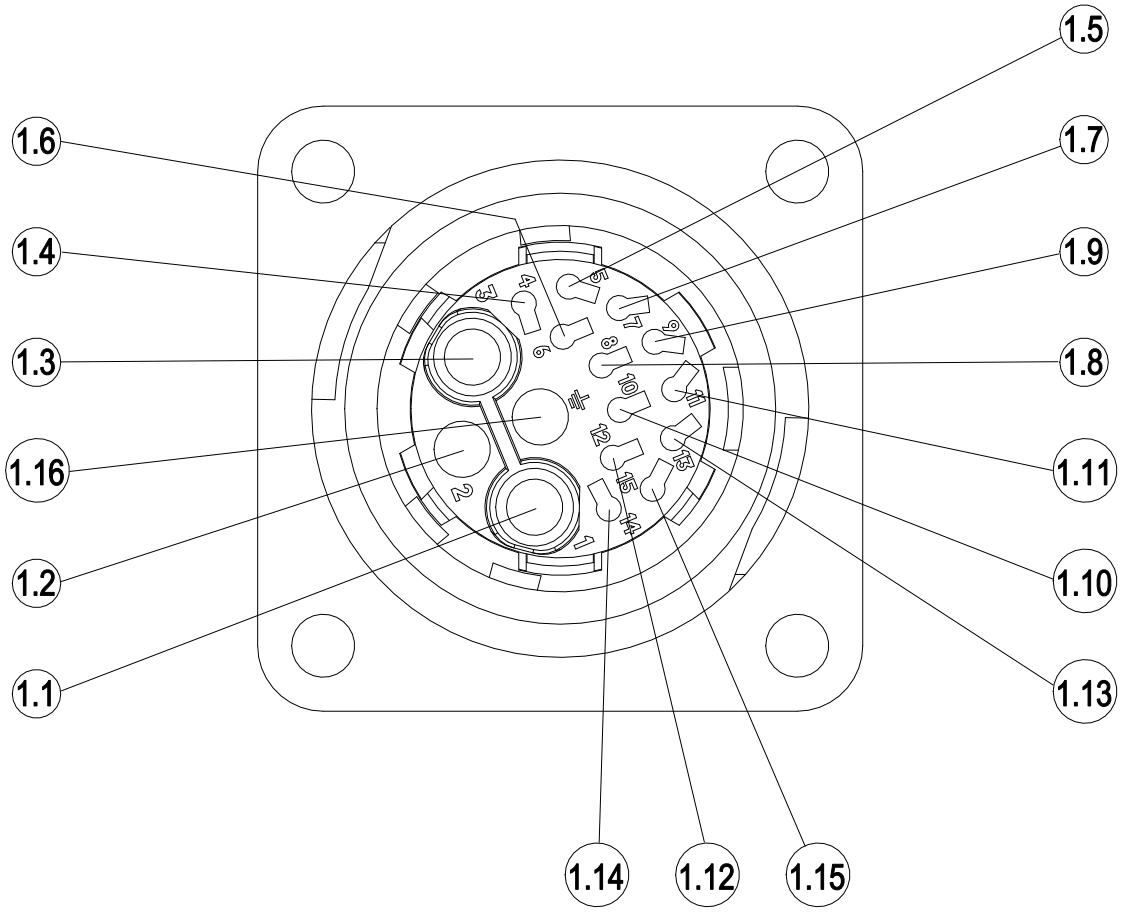
Product drawing



1	Connector housing Amphenol no. C016 10C015 000 5 with number of poles 12 + 3 + PE, 4x plug pin HN01 016 0002(1), 6x plug pin HN01-015-0046-2
2	Protective cap Art.: N080300006
3	Thread reach max. 10 mm
4	Hole 12 deep
5	Hole 18 deep
	Detailed dimensioning as per drawing 37312-2-2512 at the responsibility of Bauer Gear Motor SK

ebm-papst Mulfingen GmbH & Co. KG · Bachmühle 2 · D-74673 Mulfingen · Phone +49 (0) 7938 81-0 · Fax +49 (0) 7938 81-110 · info1@de.ebmpapst.com · www.ebmpapst.com

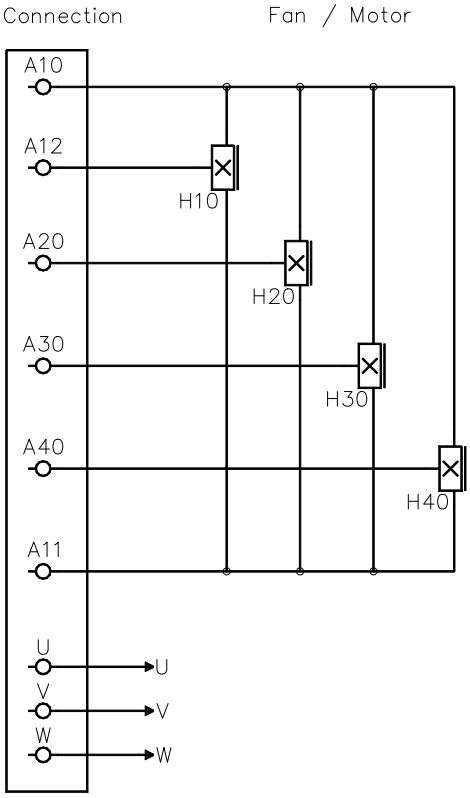
Accessory part



1.1	V/Z motor line
1.2	W/X motor line
1.3	U/Y motor line
1.4	not used
1.5	Position indicator 2 (Hall 20)
1.6	not used
1.7	Position indicator 3 (Hall 30)
1.8	not used
1.9	Position indicator 1 (Hall 10)
1.10	not used
1.11	Position indicator 4 (tacho)
1.12	not used
1.13	+ (10-24 V)
1.14	not used
1.15	- (earth)
1.16	PE

ebm-papst Mulfingen GmbH & Co. KG · Bachmühle 2 · D-74673 Mulfingen · Phone +49 (0) 7938 81-0 · Fax +49 (0) 7938 81-110 · info1@de.ebmpapst.com · www.ebmpapst.com

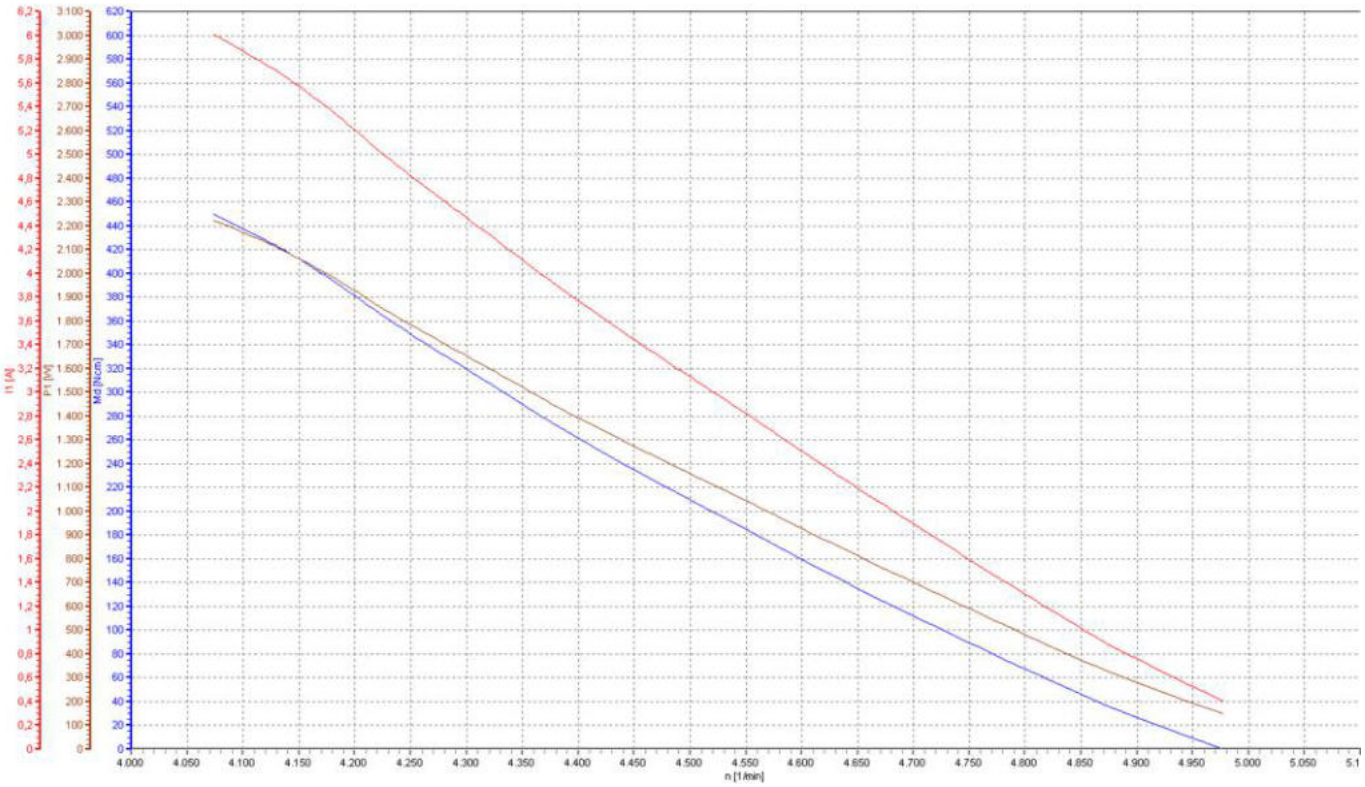
Connection screen



No.	Conn.	Designation	Function / assignment
	A10		Power supply 10-24 V
	A12	Lagegeber 1	Hall signal H10
	A20	Lagegeber 2	Hall signal H20
	A30	Lagegeber 3	Hall signal H30
	A40	Lagegeber 4	Gear sensor H40
	A11	-	GND
	U		Coil connection U
	V		Coil connection V
	W		Coil connection W

ebm-papst Mulfingen GmbH & Co. KG · Bachmühle 2 · D-74673 Mulfingen · Phone +49 (0) 7938 81-0 · Fax +49 (0) 7938 81-110 · info1@de.ebmpapst.com · www.ebmpapst.com

Charts: Speed (rpm)



ebm-papst Mulfingen GmbH & Co. KG · Bachmühle 2 · D-74673 Mulfingen · Phone +49 (0) 7938 81-0 · Fax +49 (0) 7938 81-110 · info1@de.ebmpapst.com · www.ebmpapst.com