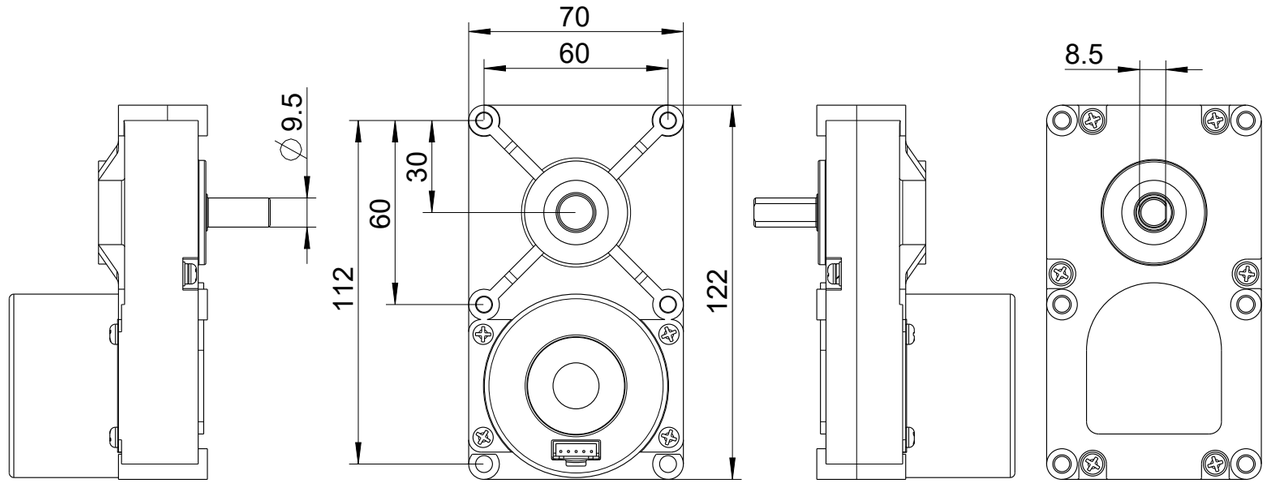
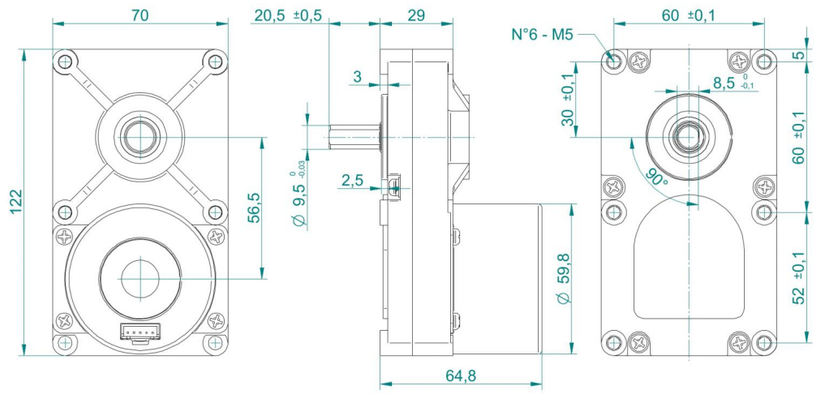
IPC MOTORS FOR PASSION	GEARBOX MOTOR	GMF410D912 Rev.0
	1,0 rpm with 24V - BLDC motor	Page 1 of 3

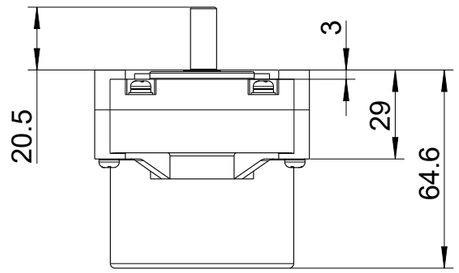
Rated voltage	24 Vd.c.		Operating voltage	18 Vd.c. – 26 Vd.c.
Rated current	0,15 A ±20%		Operating temperature	-20°C … +60°C - peaks up to 70°C
Rated power	4 W ±20%		Operating humidity	10 – 90 % R.H. (no condensation)
Speed range	0,2 -1,0 rpm ±10%		Storage temperature	from -30°C to +75°C
Rated torque	10 Nm		Rotation (look at the shaft)	CW / CCW
Max torque①	22 Nm		Sound pressure level	48 dB(A) at 1 m
Stall torque②	25-35 Nm		IP rate	IP 40
			Type of service	S1 (continuous)

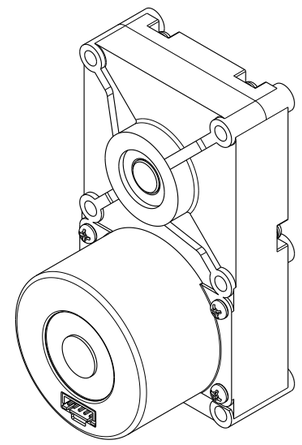
Note: ① The gearmotor is designed to operate with a torque load on the output shaft from 0 Nm to max torque value. If the gearmotor operates over the max torque, its lifetime is reduced drastically.
② When reaching the stall torque, the motor goes into overcurrent protection and stops to run, then it tries to restart by itself (see motor protection).



Drawing







Electrical and mechanical features	
Insulation Class	Class E
Class appliance	Class III
Reduction rate	903,2:1 (5 stages)
Axial play slow shaft	0,5 mm max
Backlash (no load)	2,0° max
Mounting position	Any
Driver	Built in

Item	Material / References	pcs
Gearbox shells	Zamak (zinc aluminium alloy)	2
Plastic gear	PA66	1
Metal gear	Sintered SB4050 and steel	9
Shaft bearing	Ball bearing (two last stages) ③	4
Motor bearing	Ball bearing 626 2RS	2
Grease	EUBO C/373	na
Microcontroller	STC8 type	1

Note: ③ 625 type at the penultimate stage (3rd stage), it replaces the previous 695 type.

Motor protection

- Against reverse polarity.
- Against over temperature.
- Against over current, limit to 0,5 A -0,05 A/ +0,1 A.
  The driver stops the motor after a few seconds and re-starts after a few seconds trying to run again. This behavior is repeated until the cause creating an over current, for example a blocked rotor, is solved.

This revision replaces all previous versions of this document. IPC has done every effort to ensure that all information in this document is complete and correct at the time of publication. Due to possible product improvements, we reserve the right to change certain data in this document without prior notice.

Emission: 2024.10.25

Konturlaenge/ contour length
0.00

Index	Name/name	Datum/date	Änderung Kommentar / change comment
a	MLj	27.04.2026	-

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Dokumentart/ document type		Datum/date	Name/name
PRT	erst.	24.04.2026	MLj
	gepr.	28.04.2026	mma

Allgemeintoleranz/general tolerance DIN ISO 2768-m-K	Status/ state	Freigegeben
Oberflaechensymbole/surface symbols DIN EN ISO 1302:2002-06	unbemaßte Werkstückkanten/ undefined chamfers DIN ISO 13715	-0.1 +0.1
-		
Maßstab/scale	1:2	
Format/size	A3	

Benennung / title: GMF410D912

Volumen/ volume [dm^3]: 0.094

Werkstoff/ material	Oberfläche/ surface	Oberfläche Rohteil/ surface raw part	Rohteil/ raw part	Masse/ mass [kg]
zus-75_xxxxxx	-	-	-	0.71

Zeichnungsnummer / drawing number: 718963

Index: a

Blatt/ sheet 1 von/ of 1

entstanden aus/ arised from: -

Bezeichnung/ name: B:EBETEC:GMF410D912

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