



BRUSHED DC WORM GEAR MOTOR DATASHEET

Product Type	BDCWGM
Rev	00
Date	23.06.2025

Part Number 5 603 063 240 065

Parameters	Symbol	Units	Value
Nom. Voltage	V_n	V	24
No Load Speed	n_0	rpm	233
No Load Current	I_0	A	0,3
Nom. Power	P_n	W	41
Nom. Torque	T_n	Nm	2
Nom. Current	I_n	A	3,4
Nom. Speed	n	rpm	196
Max. Efficiency	η	%	57
Max. Power	P_{max}	W	77
Stall Torque	T_{LR}	Nm	9,5
Stall Current	I_{LR}	A	15
Resistance	R_{mt}	Ω	1,4
Inductance	L_{mt}	mH	1,7
Torque Constant	K_t	mNm/A	60,6
Speed Constant	K_n	rpm/V	145,8

Product Rendering



Max. Weight	m	kg	2,4
Pole Number	P	-	2
Gear Ratio	i	-	15:1
Encoder Operating Voltage Range	V_{cc}	V	5 to 24
Resolution	ppr	pulse/rev	100
Operation Mode	-	-	S1
Direction of	-	-	CW

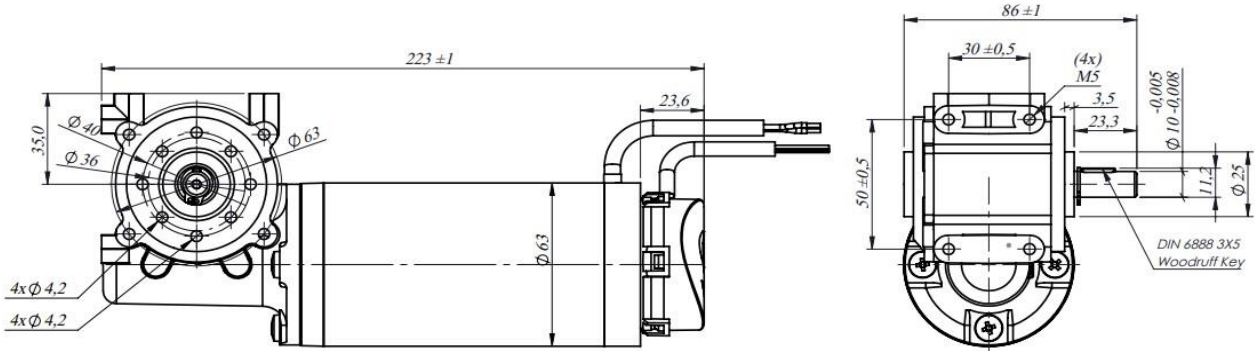
Electrical Connection

Motor (+)	Red
GND	Black
Encoder (+)	Red
Encoder GND	Black
Channel A	Yellow
Channel B	Green

Description

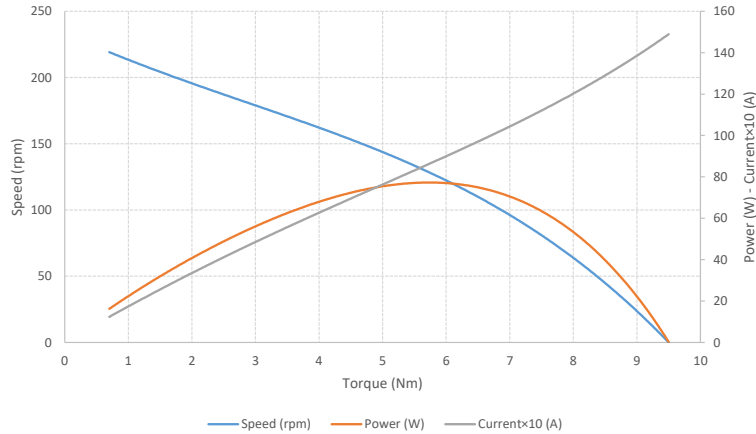
Compact design
High torque output enabled by integrated gearbox
Stable and quiet operation at low speeds
Reliable performance with long-life bearing system
Suitable for S1 duty; compatible with S2/S3 operation under proper thermal management

Technical Drawing



BRUSHED DC MOTOR CHARACTERISTIC

Motor Characteristic



Kormas Electric Motor Industry supports your system requirements with project-specific engineering solutions. We deliver fully customized motor solutions through flexible design and manufacturing capabilities. Contact Us: For custom requests or technical consultation, please reach out at sales@kormas.com

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