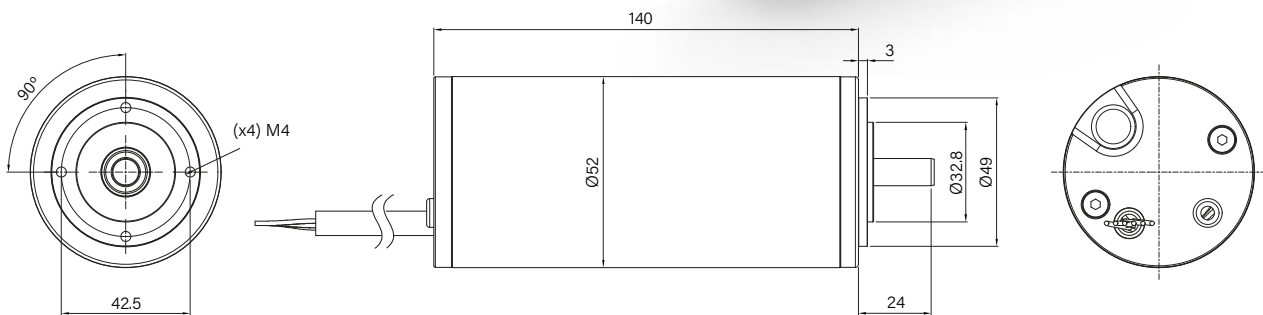


253 motor series

Highly MODULAR and compact DC brushed motor
 Integrated HALL SENSOR
 Optional ELECTRONICS: CANopen protocol
 Manufactured in 12-24V
 Designed to CUSTOMIZE and meet your needs

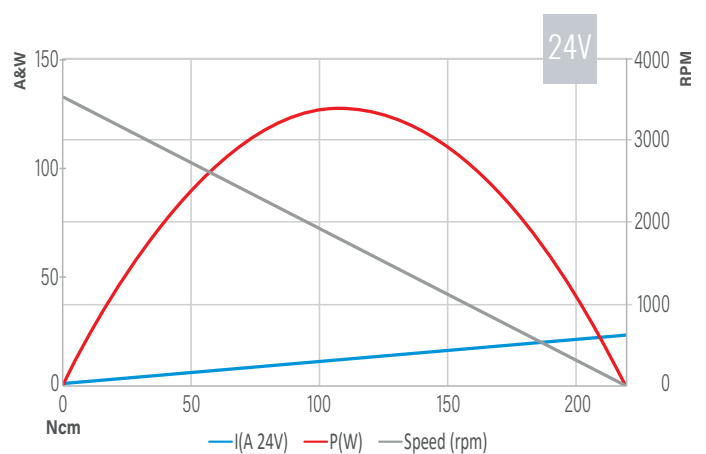
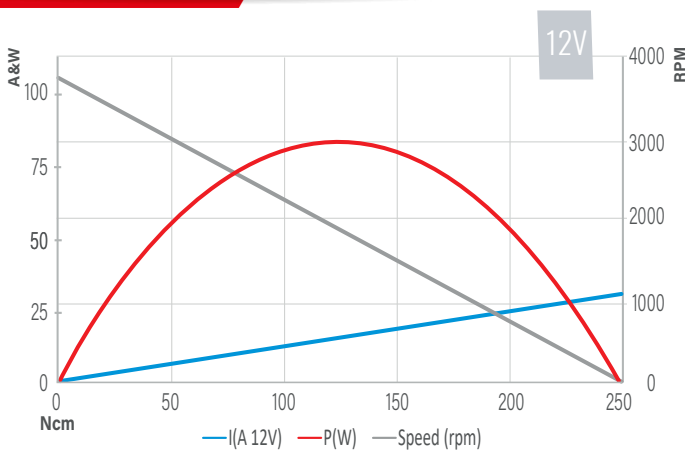


all dimensions in millimeters (mm)

MODULAR SYSTEM

ECU		+	BRAKE		+	MOTOR		+	GEAR	
CANopen protocol		12-24V >0.6 Nm Power ON & Power OFF			253 motor series: 12-24V ENCODER Integrated Hall Sensor 2+2 - 6+6 pulses 2 channels at 90°			1 -3 stages 4:1 - 308:1 $\varnothing 52$ mm		

CURVES



MAIN MOTOR FEATURES

	SIGN	UNIT	VALUE 12V	VALUE 24V
Rated Voltage	U_N	V	12	24
Rated power input	P_{er}	W	66.8	74.8
Rated power output	P_{mr}	W	45.4	54.4
Rated speed	n_N	rpm	2768	3058
Rated torque	M_N	Nm	0.154	0.17
Rated current	I_N	A	5.3	3.1
Rated efficiency	η_N	%	67.8	72.8
No Load speed	n_0	rpm	3350	3510
Stall current	I_s	A	31.5	23
Demagnetization current	I_E	A	40	20
Stall Torque	Γ_s	Nm	1.02	1.44
Maximum continuous torque	M_{max}	Nm	0.154	0.171
Voltage constant	k_E	V*s/rad	0.0335	0.0626
Torque constant	k_M	Nm/A	0.0335	0.0626
Starting Voltage	U_s	V	2	2
Inertia	J_R	gcm ²	471	471

EMC Degree	R10
Bearing type	ball bearing
Permissible axial shaft loads	F_{axial} 130N
Permissible radial shaft loads	F_{radial} 90N
IP	Up to IP69K
Insulation class DIN VDE 0530	Class F

