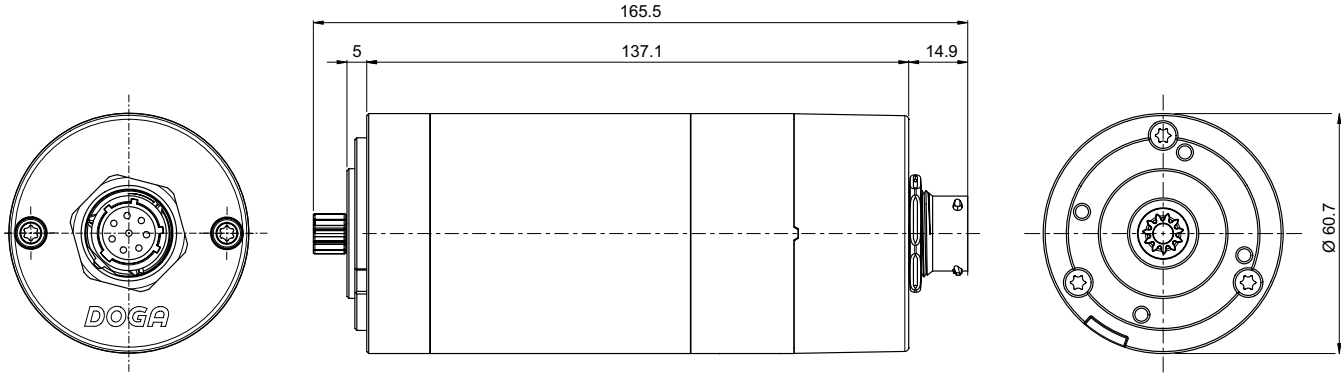
BRL100 motor series

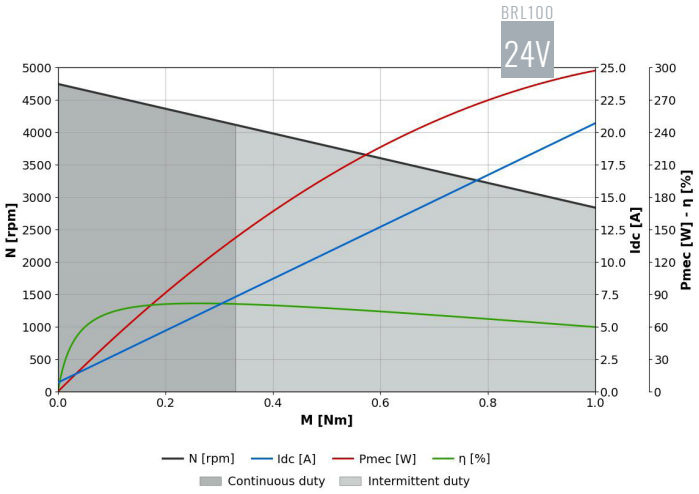
Highly MODULAR and compact brushless motor series
Integrated Electronics: CAN Digital Input/Output
Developed for 24 and 48V DC applications
Designed for customization to meet your requirements

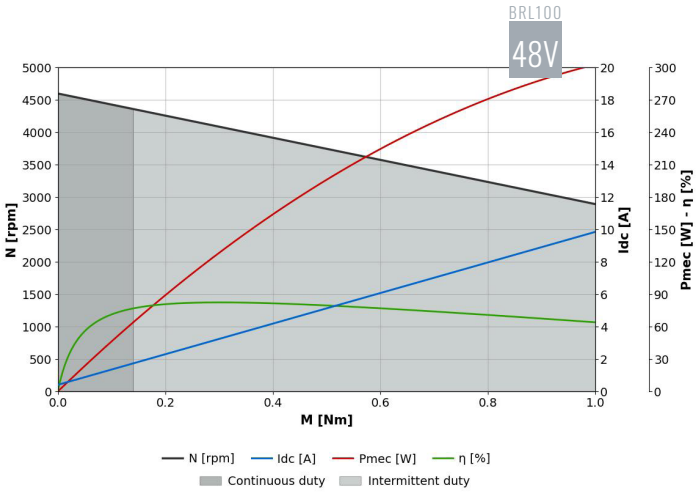


MODULAR SYSTEM

ECU	MOTOR	GEAR
CAN + Digital Input/Output	BRL100 motor series: 24/48V	OPTIONAL 1 -3 stages 4:1 - 308:1 Ø52mm

CURVES*





Motor temperature = 25ºC

BRL100 motor series

DOGA DRIVE SYSTEMS

MAIN MOTOR FEATURES

	UNIT	VALUE 24V	VALUE 48V
Rated Voltage	VDC	24	48
Nominal Torque	Nm	0.33	0.33
Nominal Speed	rpm	3400	3400
Nominal DC Current	A	6	3
Efficiency nominal point	%	>80%	>80%
Nominal Output power	W	120	120
Maximum Torque	Nm	0.99	0.99
Max. DC Current	A	20	10
No load speed	rpm	4750	4600
Voltage range	VDC	18-32	36-52
Weight	Kg	1.2	1.2

Motor control	Integrated control unit (FOC)
Motor comunication	CAN Open (Digital Inputs/Digital Outputs/CANJ1939/ LIN/PWM/Analog inputs/Modbus 485 can be developed)
Power and logic connector	EATON UTS 7128PSEK9
Insulation class	Class F (155ºC)
Operating temperature range	Full performance -40ºC<Tamb<+55ºC Derrated performance +55ºC<Tamb<80ºC
Storage temperature range	-40ºC<Tamb<+85ºC
IP	IP65
Vibration resistance	Sinusoidal vibration test: IEC 60068 Random vibration test: IEC 60068 Temperature change test IEC 60068 Shock test: IEC 60068
Cooling test	Test Ad at 2.5Nm/-40ºC according IEC 60069
Dry/heat Test	Test Bd at 2.5Nm/+70ºC according IEC 60068
Damp heat test	Test Db according to IEC 60068
Salt mist test	IEC 60068 Severity 2
RoHS	Compliant according 2011/65/UE
EMC	EN ISO 14982:2009

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