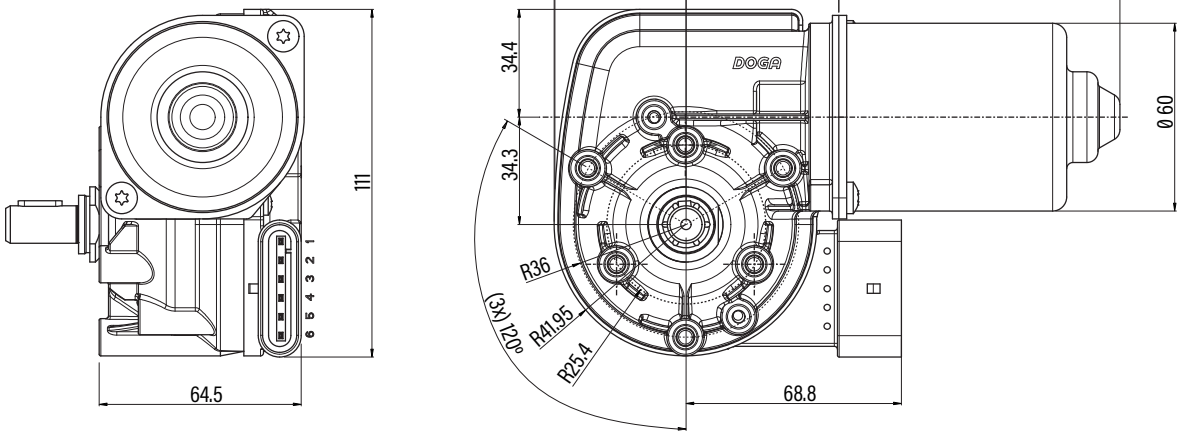
311 motor series

DC gearmotors available in 12 V and 24 V versions
90° output shaft configuration
Available with plastic or bronze worm wheel
Optional dual-channel quadrature Hall sensor
Designed for demanding environments with IP69K protection





AVAILABLE CONFIGURATIONS

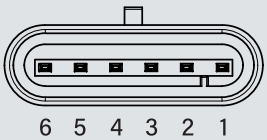
MOTOR

- 311 motor series: 12-24V
- 90° worm gear integrated reducer
- Plastic or bronze worm wheel

+ HALL

- Dual-channel quadrature Hall sensor (90deg phase shift)
- Speed and direction feedback
- Hall operating voltage range: 5-32Vdc

CONNECTOR



TE/AMP SUPERSEAL 6 POS
p/n 282108-1

PIN OUT	CONVENTIONAL VERSION		PIN OUT	HALL SENSOR VERSION	
1	POWER SUPPLY	4	1	POWER SUPPLY	4 +Vdc Hall
2	POWER SUPPLY	5	2	POWER SUPPLY	5 Hall Out A
3		6	3	GND Hall	6 Hall Out B

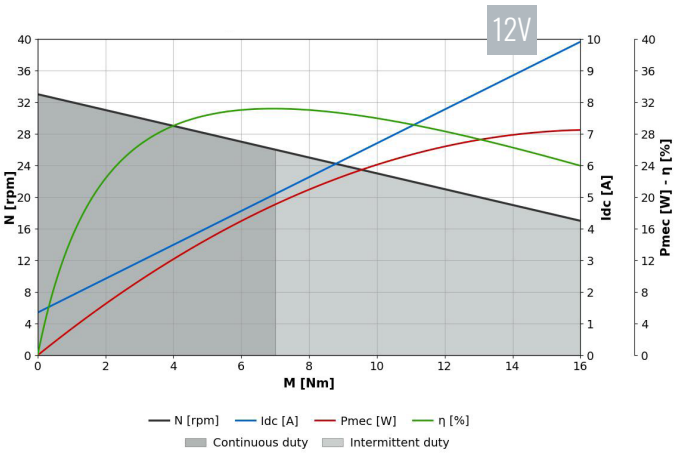
MAIN MOTOR FEATURES

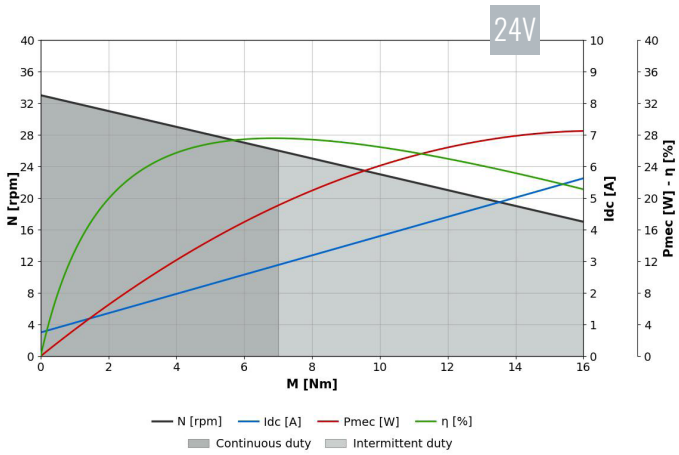
35 rpm

	SIGN	UNIT	VALUE 12V	VALUE 24V
Rated voltage	U_N	V	12	24
No-load speed	n_0	rpm	33	33
No-load current	I_0	A	1.3	0.8
Rated torque	M_N	Nm	7	7
Rated speed	N_N	rpm	25	26
Rated current	I_N	A	5.1	2.9
Rated input power	P_{inN}	W	61	70
Rated output power	P_{outN}	W	19	19
Stall torque	Γ_s	Nm	33	33
Stall current	I_S	A	19	11
Output torque constant	K_T	Nm/A	1.8	3.3
Gear ratio	i		76:1	76:1
Hall encoder resolution	ppr	pulses/rev	760	760
Worm wheel material			plastic	plastic
Weight	m	kg	1.2	1.2

All data are averaged values measured with the motor at 25ºC

CURVES





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DOGA DRIVE SYSTEMS

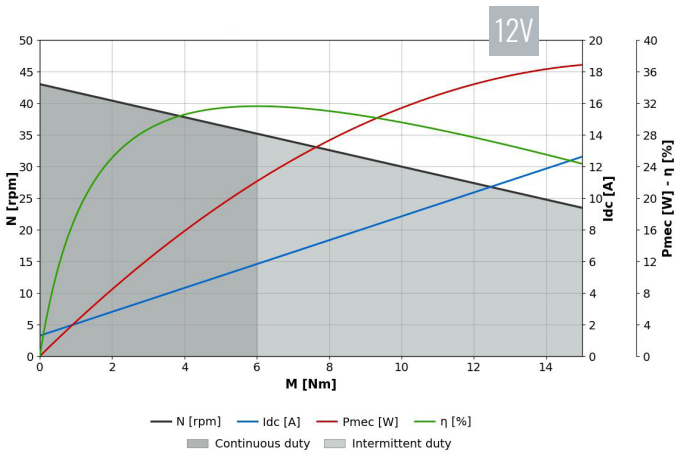
MAIN MOTOR FEATURES

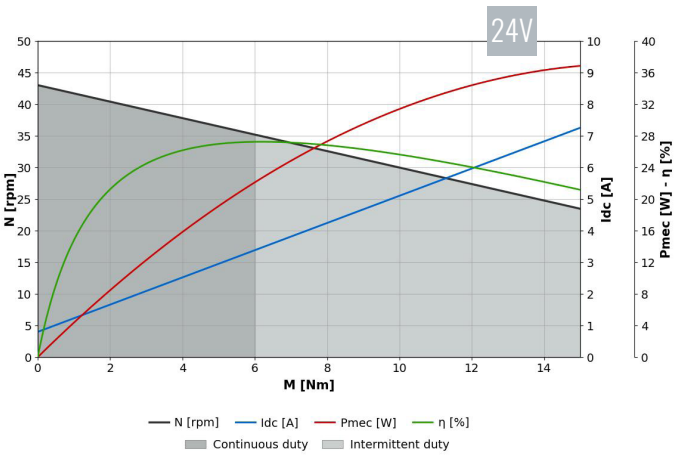
45 rpm

	SIGN	UNIT	VALUE 12V	VALUE 24V
Rated voltage	U_N	V	12	24
No-load speed	n_0	rpm	43	43
No-load current	I_0	A	1.3	0.8
Rated torque	M_N	Nm	6	6
Rated speed	N_N	rpm	35	35
Rated current	I_N	A	5.8	3.3
Rated input power	P_{inN}	W	70	79
Rated output power	P_{outN}	W	22	22
Stall torque	Γ_s	Nm	33	33
Stall current	I_S	A	26	15
Output torque constant	K_T	Nm/A	1.32	2.38
Gear ratio	i		76:1	76:1
Hall encoder resolution	ppr	pulses/rev	760	760
Worm wheel material			plastic	plastic
Weight	m	kg	1.2	1.2

All data are averaged values measured with the motor at 25ºC

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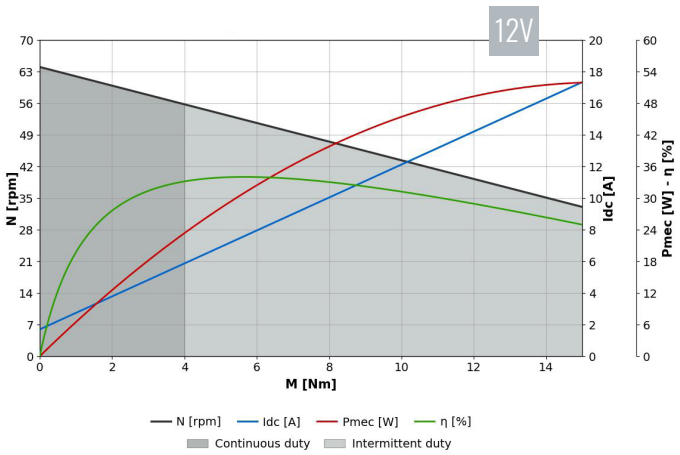
MAIN MOTOR FEATURES

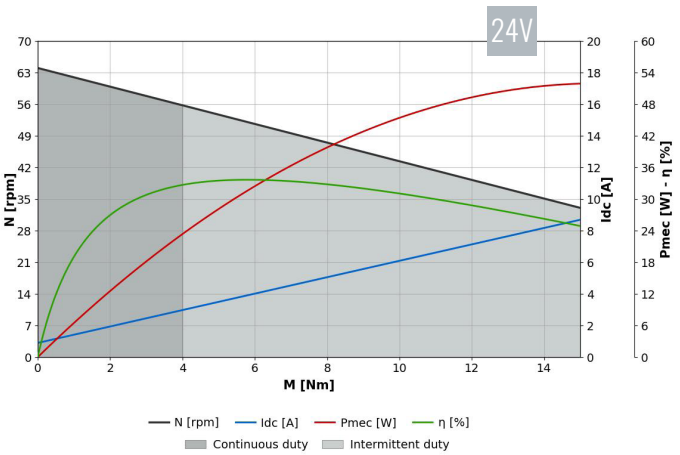
65 rpm

	SIGN	UNIT	VALUE 12V	VALUE 24V
Rated voltage	U_N	V	12	24
No-load speed	n_0	rpm	64	64
No-load current	I_0	A	1.7	0.9
Rated torque	M_N	Nm	4	4
Rated speed	N_N	rpm	56	56
Rated current	I_N	A	5.9	2.9
Rated input power	P_{inN}	W	70	70
Rated output power	P_{outN}	W	23	23
Stall torque	Γ_s	Nm	31	31
Stall current	I_S	A	34	17
Output torque constant	K_T	Nm/A	1.0	1.9
Gear ratio	i		76:1	76:1
Hall encoder resolution	ppr	pulses/rev	760	760
Worm wheel material			plastic	plastic
Weight	m	kg	1.2	1.2

All data are averaged values measured with the motor at 25ºC

CURVES





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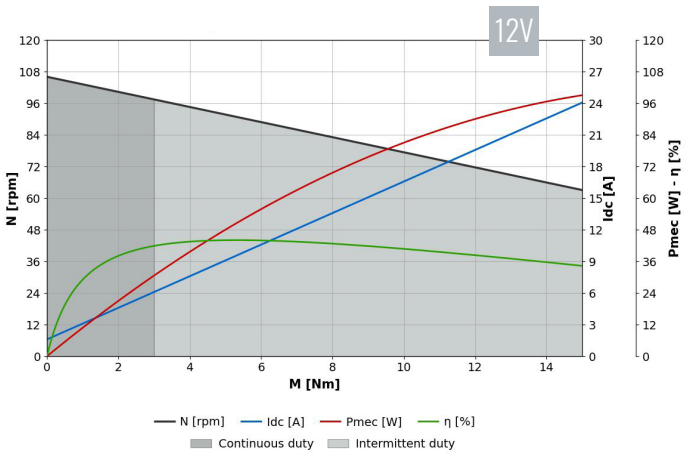
MAIN MOTOR FEATURES

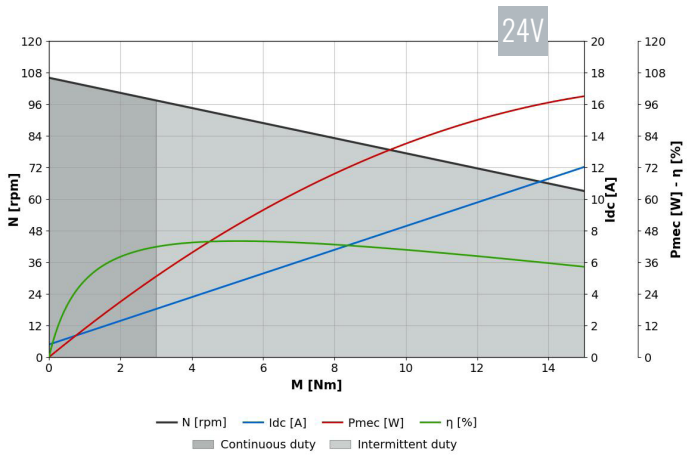
105 rpm

	SIGN	UNIT	VALUE 12V	VALUE 24V
Rated voltage	U_N	V	12	24
No-load speed	n_0	rpm	106	106
No-load current	I_0	A	1.6	0.8
Rated torque	M_N	Nm	3	3
Rated speed	n_N	rpm	96	96
Rated current	I_N	A	6.0	3.0
Rated input power	P_{inN}	W	72	72
Rated output power	P_{outN}	W	30	30
Demagnetization current (Tamb=-20º)	IE	A	>45	>20
Stall torque	r_s	Nm	37	37
Stall current	I_S	A	57	29
Output torque constant	K_T	Nm/A	0.7	1.3
Gear ratio	i		76:2	76:2
Hall encoder resolution	ppr	pulses/rev	380	380
Worm wheel material			plastic	plastic
Weight	m	kg	1.2	1.2

All data are averaged values measured with the motor at 25ºC

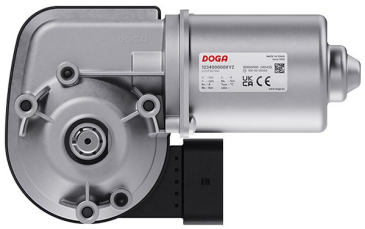
CURVES





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PRODUCT VIEWS






MARKETS



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