

ECI motor.

ECI-63.XX-K3



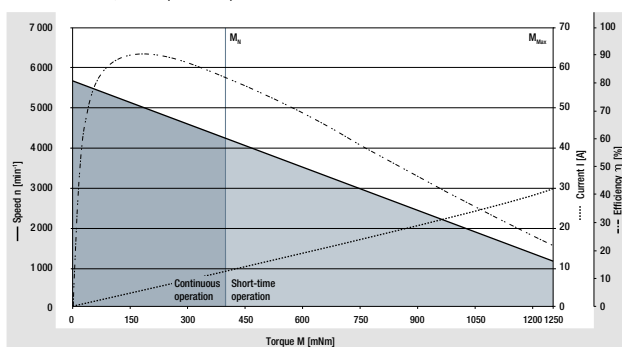
- Drive with completely integrated K3 operation and control electronics
- Integrated speed control
- Interface with analog and digital control inputs
- Output stage enabled via digital hardware enabling
- Field-oriented closed-loop control
- 15-pole plug

Nominal data

Type		ECI-63.20-K3 -B00	ECI-63.20-K3 -D00	ECI-63.40-K3 -B00	ECI-63.40-K3 -D00	ECI-63.60-K3 -D00
Nominal voltage (U_n)	V DC	24	48	24	48	48
Permissible supply voltage range (U_{zk})	V DC	18 ... 30	18 ... 53	18 ... 30	18 ... 53	18 ... 53
Max. reverse voltage	V DC	35	58	35	58	58
Nominal speed (n_n)	rpm	4 000				
Nominal torque (M_n)**	mNm	425	450	600	750	850
Nominal current (I_n)**	A	8.50	5.40	12.3	7.20	8.60
Nominal output power (P_n)**	W	178	188	251	314	356
Starting torque (M_{max})	mNm	1 480	1 890	1 500	3 000	2 550
Speed at no-load operation (n_l)	rpm	5 800	5 800	5 900	5 800	6 000
No-load current (I_l)	A	0.50	0.50	0.90	0.50	0.60
Recommended speed control range	rpm	0 ... 5 000				
Set value input		analog (0 ... 10 V)				
Rotor moment of inertia (J_R)	kgm ² x10 ⁻⁶	19	19	38	38	57
Function for motor protection at stall		thermal				
Overload protection		integrated				
Permissible ambient temperature range (T_u)	°C	0 ... +40				
Weight	kg	0.85	0.85	1.15	1.15	1.50
Order no. (wire interface)*	IP 40	932 6320 303	932 6320 305	932 6340 303	932 6340 305	932 6360 305
Order no. (connector interface)*	IP 54	932 6320 300	932 6320 302	932 6340 300	932 6340 302	932 6360 302
Subject to alterations		* Classification of protection class refers to installed state with sealing on the flange side				
Preferred type: ready to ship in 48 hours		** At T_u max. 40°C				

Characteristic curve

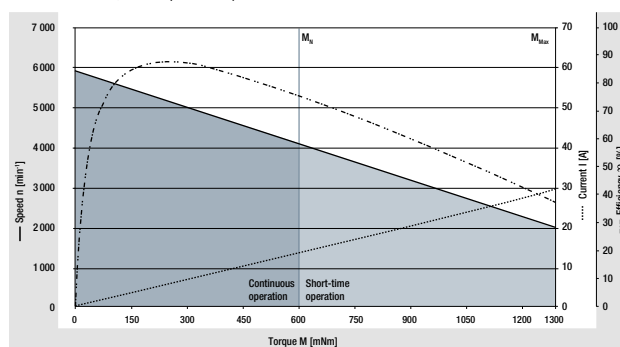
ECI-63.20-K3, 24 V (at 25°C)



¹⁾ Nominal data, see table

Characteristic curve 48 V on request

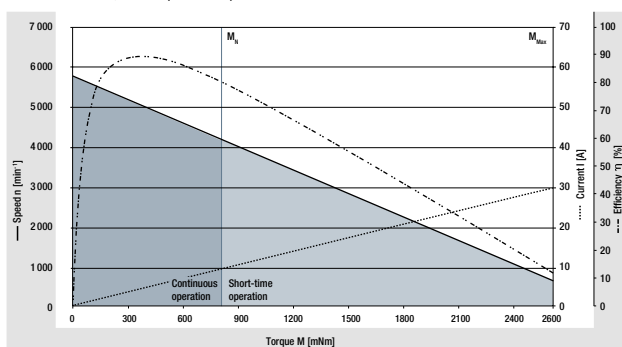
ECI-63.40-K3, 24 V (at 25°C)



¹⁾ Nominal data, see table

Characteristic curve 48 V on request

ECI-63.60-K3, 48 V (at 25°C)



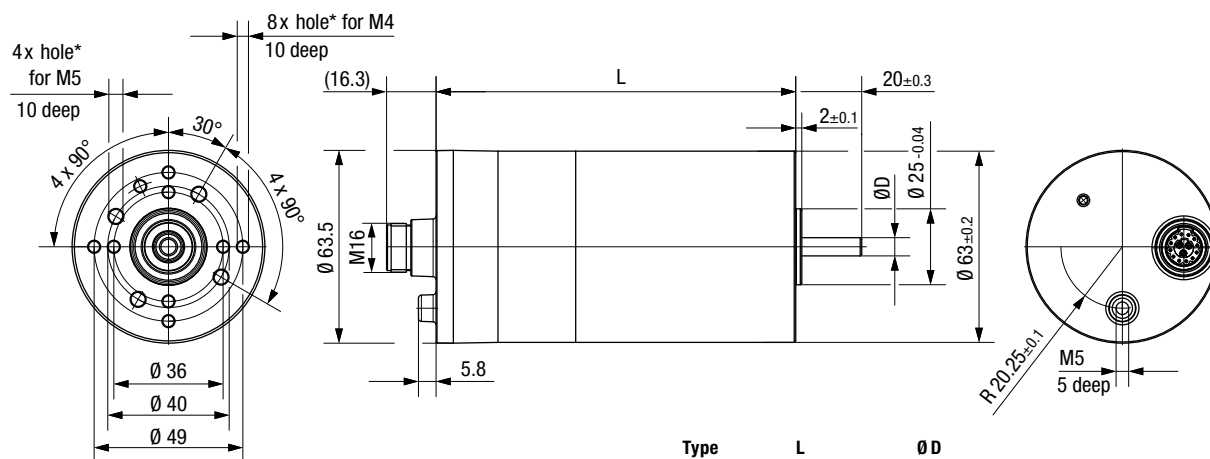
¹⁾ Nominal data, see table

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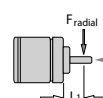
ECI-63.XX-K3

Technical drawing

All dimensions in mm



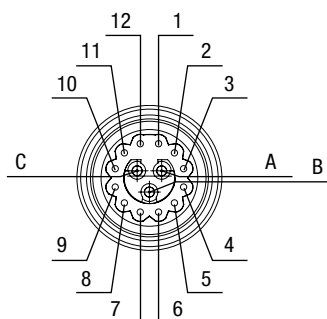
Type	L	Ø D
ECI-63.20	118.5 ± 0.3	6 _{g5}
ECI-63.40	138.5 ± 0.3	6 _{g5}
ECI-63.60	158.5 ± 0.3	10 _{g5}



Permissible shaft load at nominal speed and life expectancy L_{10} (nominal operation) of 20 000 h (at T_u max. 40°C)

* For thread-rolling screws according to DIN 7500

Electrical connection



	Wire color	Pin	Configuration	Function	Recommended AWG
Signal	white	1	D-IN-A	NPN 24 V	24
	brown	2	D-IN-B	NPN 24 V	
	green	3	D-IN-1	NPN 24 V	
	yellow	4	D-IN-2	NPN 24 V / analog 0 ... 10 V / brake	
	gray	5	D-OUT-1	PNP 24 V	
	pink	6	D-OUT-2	PNP 24 V	
	blue	7	D-OUT-3	PNP 24 V	
	red	8	A-IN-1	0 ... 10 V (differential)	
	black	9	A-IN-GND	GND for analog IN 1 (differential)	
	violet	10	RS485 A (+)	Progr. bus	
	gray / pink	11	RS485 B (-)	Progr. bus	
	red / blue	12	U_{Logic}	Logic power supply (24 V)	
Power	gray	A	Ballast	Ballast resistor	16
	brown	B	U_{ZK}	Power supply	
	black	C	GND	Power / signal GND	