

ECI motor.

ECI-63.XX-K5



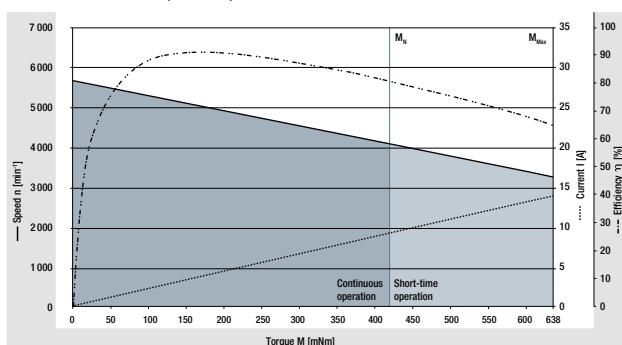
- Drive with integrated K5 operation and control electronics with CANopen communication interface
- Sine commutation of the drives with field-oriented control
- Speed control range down to $n = 0$ rpm with holding torque up to 5 000 rpm possible
- Different operating modes according to DSP 402 (speed, torque, positioning) possible via software
- Electronics in safely sealed housing
- Connectors M16 and M12 in sealed industry standard
- Interface with analog and digital control inputs

Nominal data

Type		ECI-63.20-K5 -B00	ECI-63.20-K5 -D00	ECI-63.40-K5 -B00	ECI-63.40-K5 -D00	ECI-63.60-K5 -D00
Nominal voltage (U_n)	V DC	24	48	24	48	48
Permissible supply voltage range (U_{zk})	V DC	18 ... 30	18 ... 52	18 ... 30	18 ... 52	18 ... 52
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	1 275	1 350	1 500	2 250	2 550
Speed at no-load operation (n_0)	rpm	5 800	5 800	5 900	5 800	6 000
No-load current (I_0)	A	0.50	0.20	0.90	0.46	0.48
Recommended speed control range	rpm	0 ... 4 000				
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	0.95	0.95	1.25	1.25	1.55
Order no. (connector interface)*	IP 54	932 6320 550	932 6320 552	932 6340 550	932 6340 552	932 6360 552
Subject to alterations Series planned 2nd q/2017		* Classification of protection class refers to installed state with sealing on the flange side ** At T_u max. 40°C				

Characteristic curve

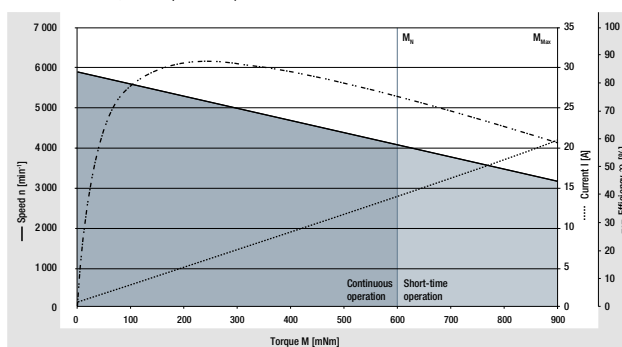
ECI-63.20-K5, 24 V (at 25°C)



¹⁾ Nominal data, see table

Characteristic curve 48 V on request

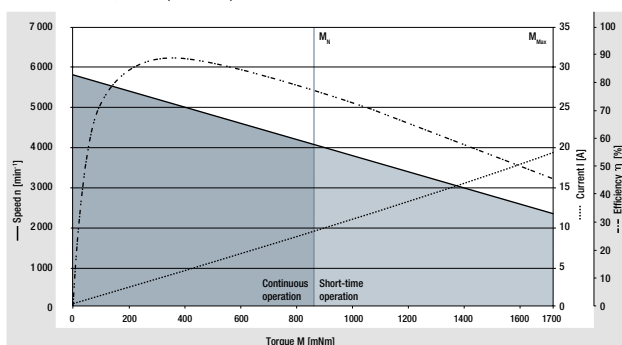
ECI-63.40-K5, 24 V (at 25°C)



¹⁾ Nominal data, see table

Characteristic curve 48 V on request

ECI-63.60-K5, 48 V (at 25°C)



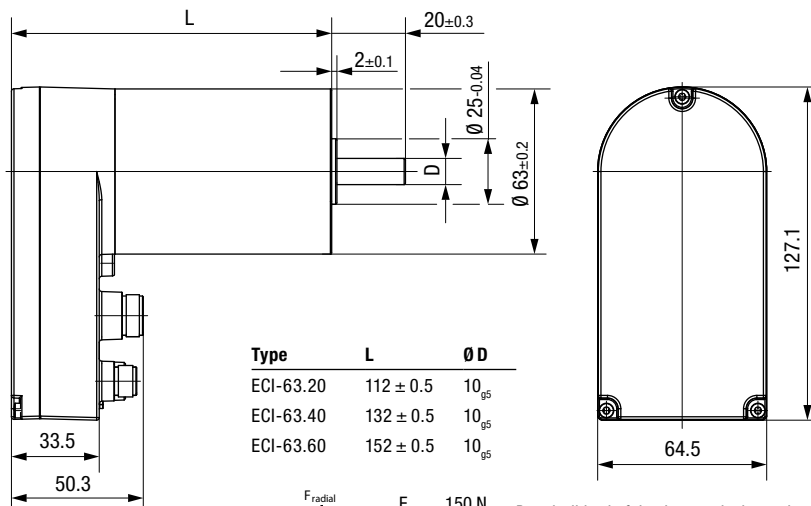
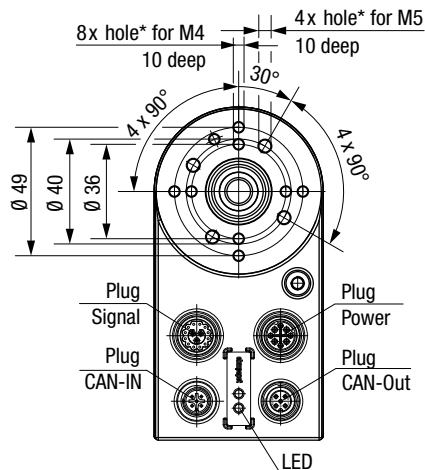
¹⁾ Nominal data, see table

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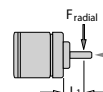
ECI-63.XX-K5

Technical drawing

All dimensions in mm



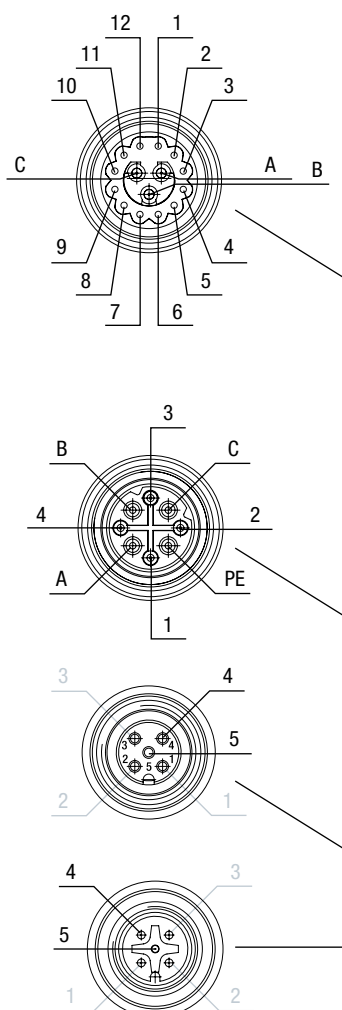
Type	L	Ø D
ECI-63.20	112 ± 0.5	10 _{g5}
ECI-63.40	132 ± 0.5	10 _{g5}
ECI-63.60	152 ± 0.5	10 _{g5}



Permissible shaft load at nominal speed and life expectancy L₁₀ (nominal operation) of 20 000 h (at T_y max. 40°C)

* For thread-rolling screws according to DIN 7500

Electrical connection



	Wire color	Pin	Configuration	Function	Recommended AWG
Plug Signal	white	1	D-IN-1	Digital input 1	24
	brown	2	D-IN-2	Digital input 2	
	green	3	D-IN-3	Digital input 3	
	yellow	4	D-IN-4	Digital input 4	
	gray	5	D-IN-5	Digital input 5	
	pink	6	D-IN-6	Digital input 6	
	blue	7	D-IN-7	Digital input 7	
	red	8	D-OUT-1	Digital output 1	
	black	9	D-OUT-2	Digital output 2	
	violet	10	Enable	Enable input	
	gray / pink	11	A-IN-1+	Analog input 1	
	red / blue	12	A-IN-2	Analog input 2	
Plug Power	gray	A	A-IN-1-	Analog input 1 GND	18
	brown	B	U _{Logic}	Power supply for electronics	
	black	C	GND	Ground and reference for A-IN-2	
	blue	Pin FE	FE	Functional earth	
Plug CAN Out	brown	Pin A	U _{ZK}	Power supply (ballast)	16
	gray	Pin B	Ballast	Ballast resistor	
	black	Pin C	GND power	Power supply	
	blue	Pin FE	FE	Functional earth	
Plug CAN-IN	white	Pin 1	CAN H	CAN Bus high signal	24
	brown	Pin 2	CAN L	CAN Bus low signal	
	green	Pin 3	Enable	24 V	
	yellow	Pin 4	U _{Logic}	NPN / PNP 24 V	
Plug CAN Out		Pin 4	CAN H	CAN Bus high signal	24
		Pin 5	CAN L	CAN Bus low signal	
Plug CAN-IN		Pin 4	CAN H	CAN Bus high signal	24
		Pin 5	CAN L	CAN Bus low signal	