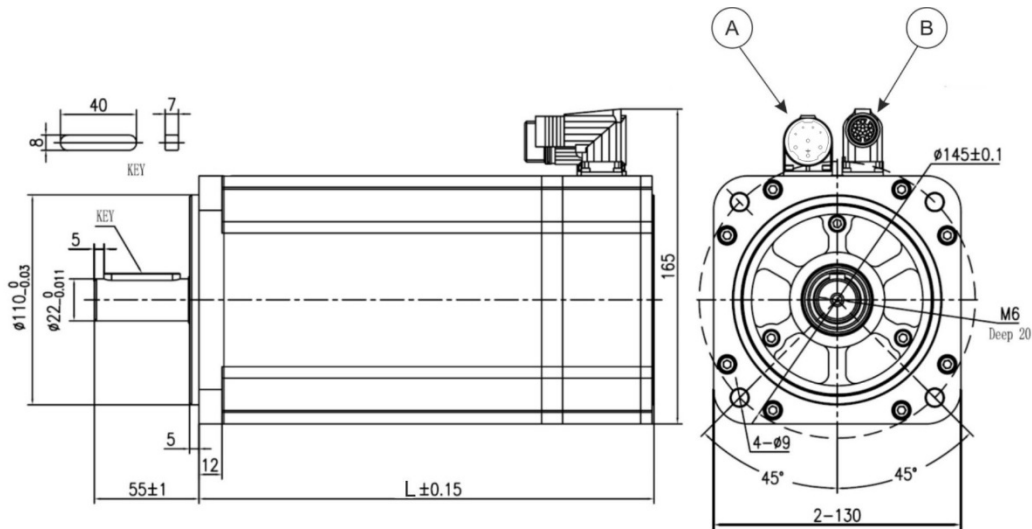




E°MOTORS – E°SC3-065...

Dimensions



All dimensions indicated in mm

A: Power connection
B: Encoder connection

Type of motor	Length (L) without brake	Length (L) with brake
E°SC3-065-16-10...	239 mm	---





Technical Data

Type of motor	E°SC3-065-16-10...
Recommended servo drive	E°Darc K10

Motor

M_0	Stall torque	Nm	16.5
M_{max}	Peak torque	Nm	37.5
M_N	Rated torque	Nm	15.0
n_N	Rated speed	rpm	1000
M_k	Cutoff torque (at operating temperature)	Nm	15.0
n_k	Cutoff speed (at operating temperature)	rpm	1000
I_{max}	Peak current	A_{RMS}	19.75
J	Rotor moment of inertia	$kgcm^2$	34.8
F_r	Maximum radial force	N	900
F_a	Maximum axial force	N	450
m	Weight (without brake)	kg	13.9
p	Number of pole pairs		4
k_T	Torque constant	Nm/A_{RMS}	1.82
k_E	Voltage constant	$V/krpm$	110
I_0	Stall current	A_{RMS}	8.7
I_N	Rated current	A_{RMS}	8.2
P_N	Rated power	W	1570
RW	Phase resistance	Ohm	0.42
LW	Phase inductance	mH	6.35
U	Supply voltage	V DC	300

Cable

Q	Cross section (at < 50 m length)	mm^2	1
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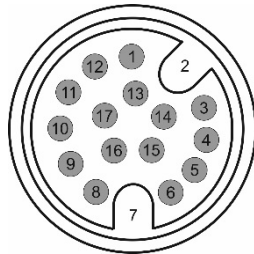
Eckelmann Group – Source of inspiration



Encoder connection

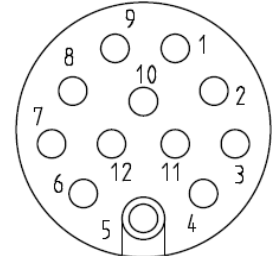
Incremental encoder

Pin	Assignment
1	DC + 5 V
2	GND
3	A
4	/A
5	B
6	/B
7	KTY +
8	KTY -
9	U
10	/U
11	V
12	/V
13	NC
14	Z
15	/Z
16	W
17	/W



Absolute encoder

Pin	Assignment
1	DC + 5 V
2	GND_5V
3	SD
4	/SD
5	NC
6	NC
7	KTY +
8	KTY -
9	V_batt
10	GND_batt
11	NC
12	NC



Power connection

Pin	Assignment
1	Phase U
2	PE
3	Phase V
4	Phase W
5	NC
6	NC
7	Brake B+
8	Brake B-

