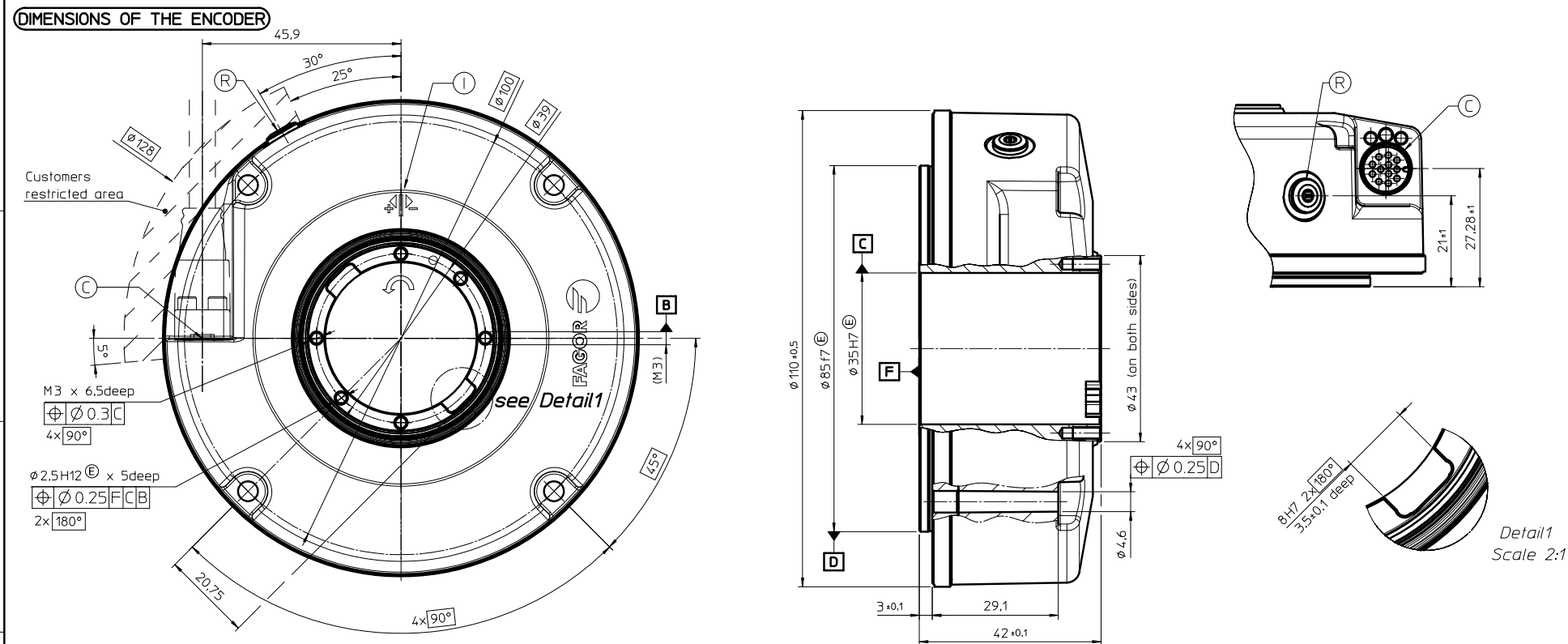
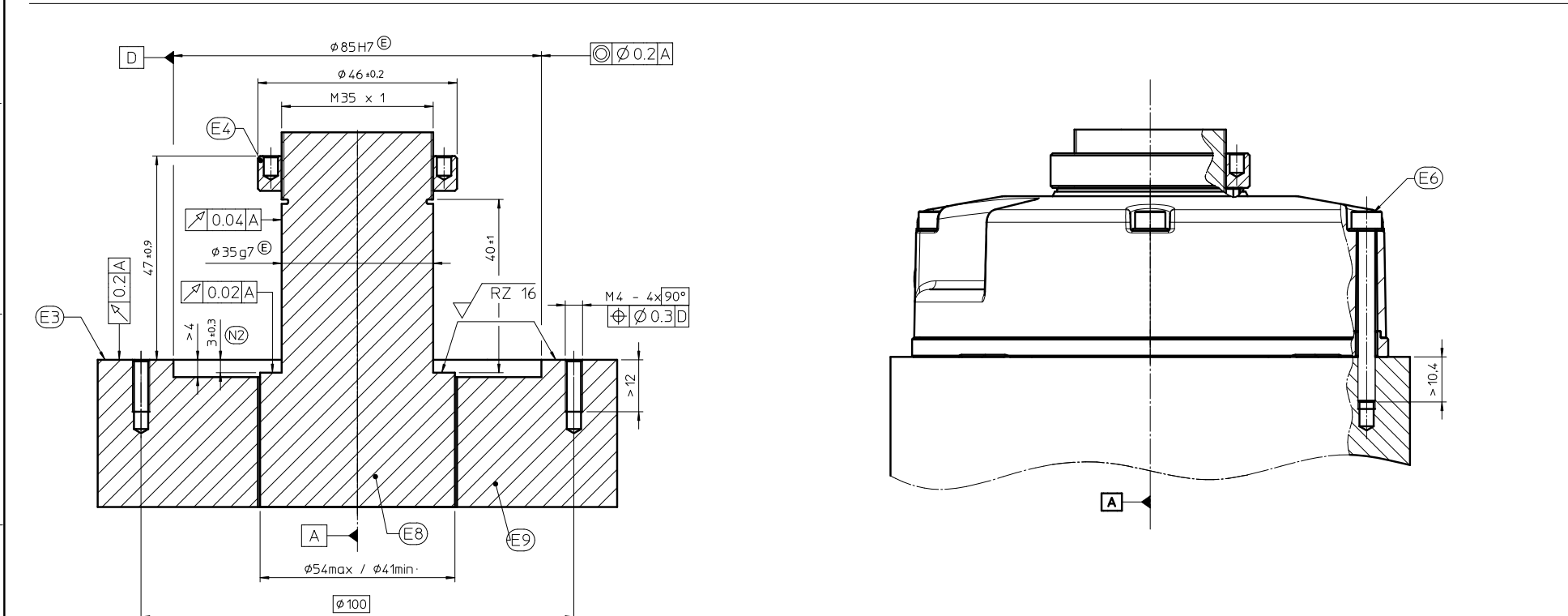


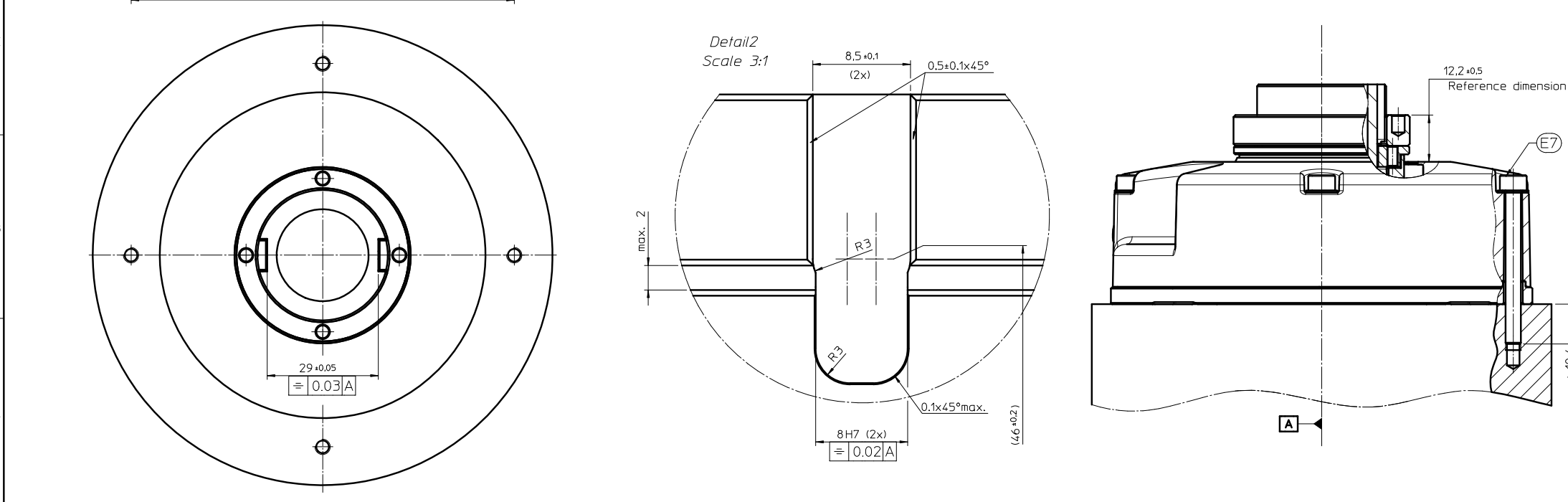
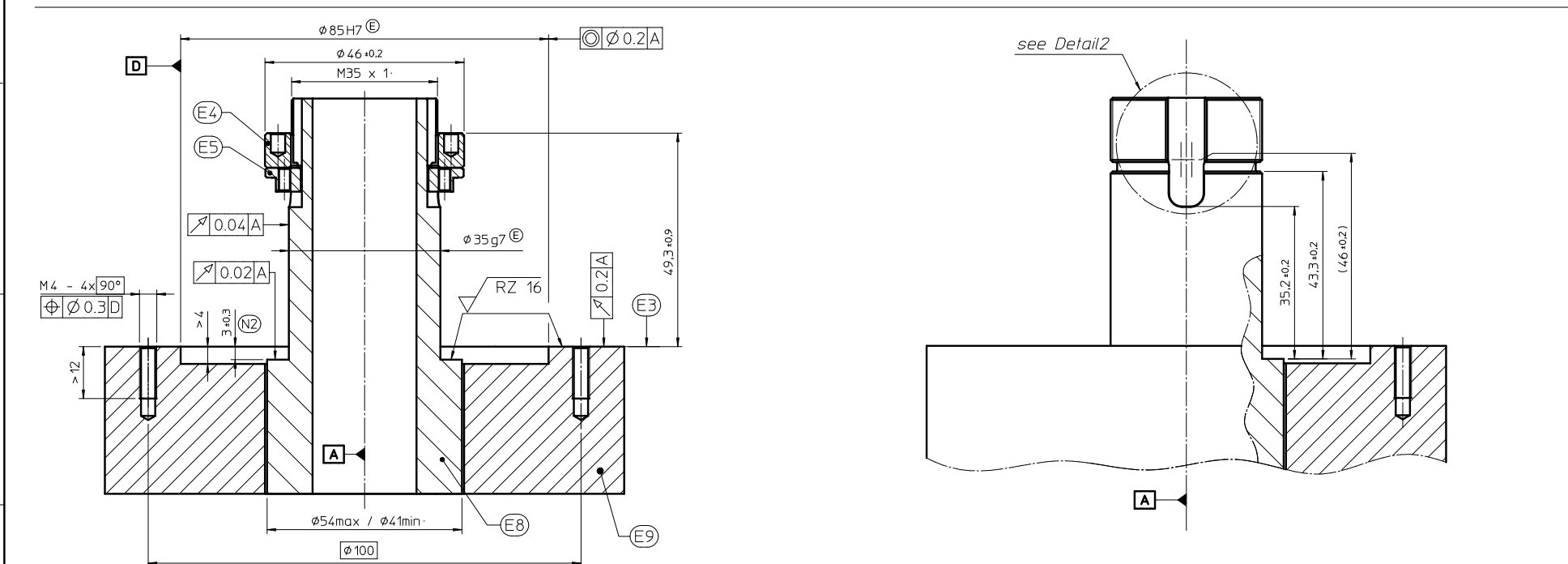
DIMENSIONS OF THE ENCODER



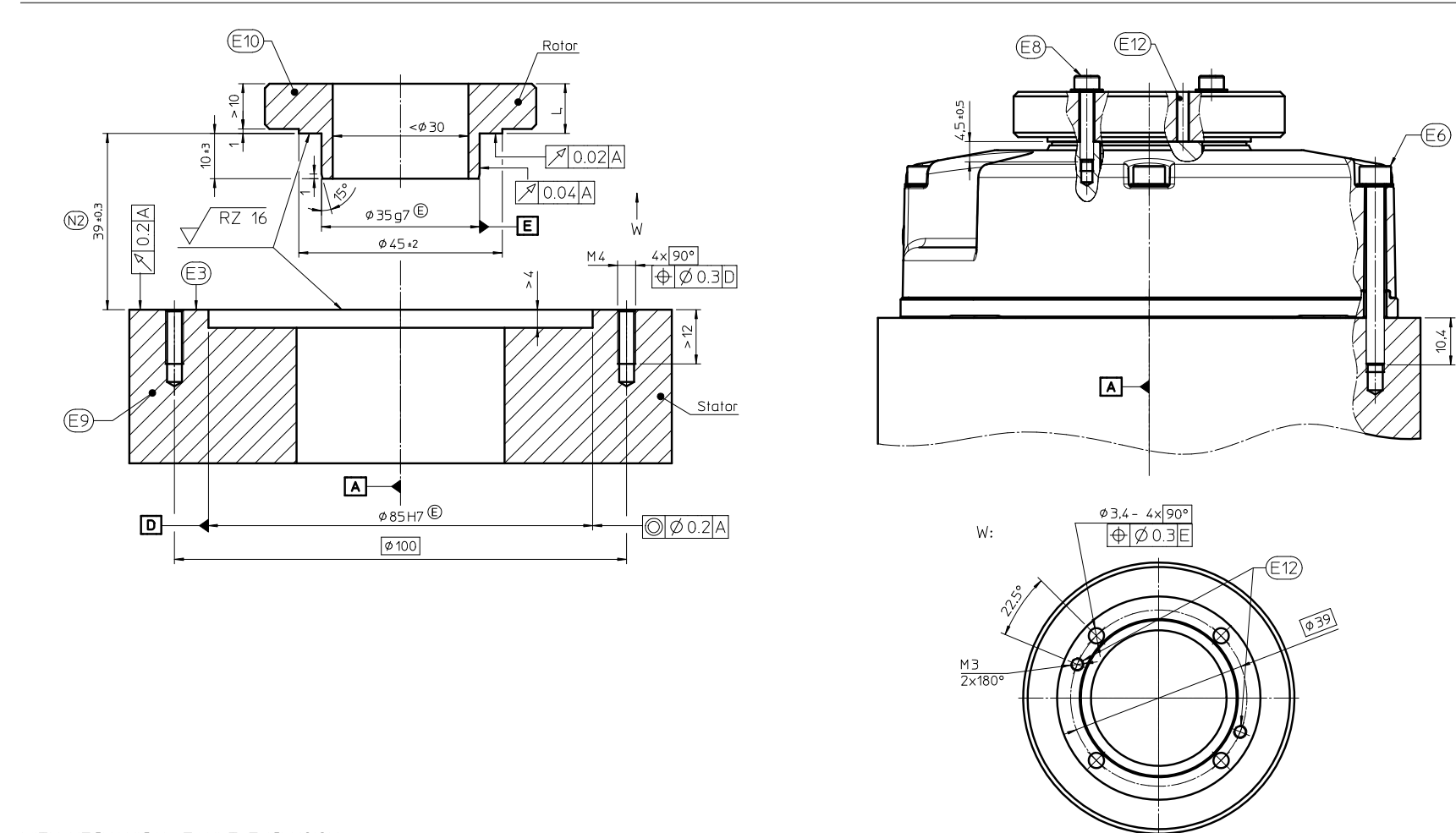
(MOUNTING OPTION: SHAFT COUPLING) (M) (N1)
WITHOUT MECHANICAL FAULT EXCLUSION



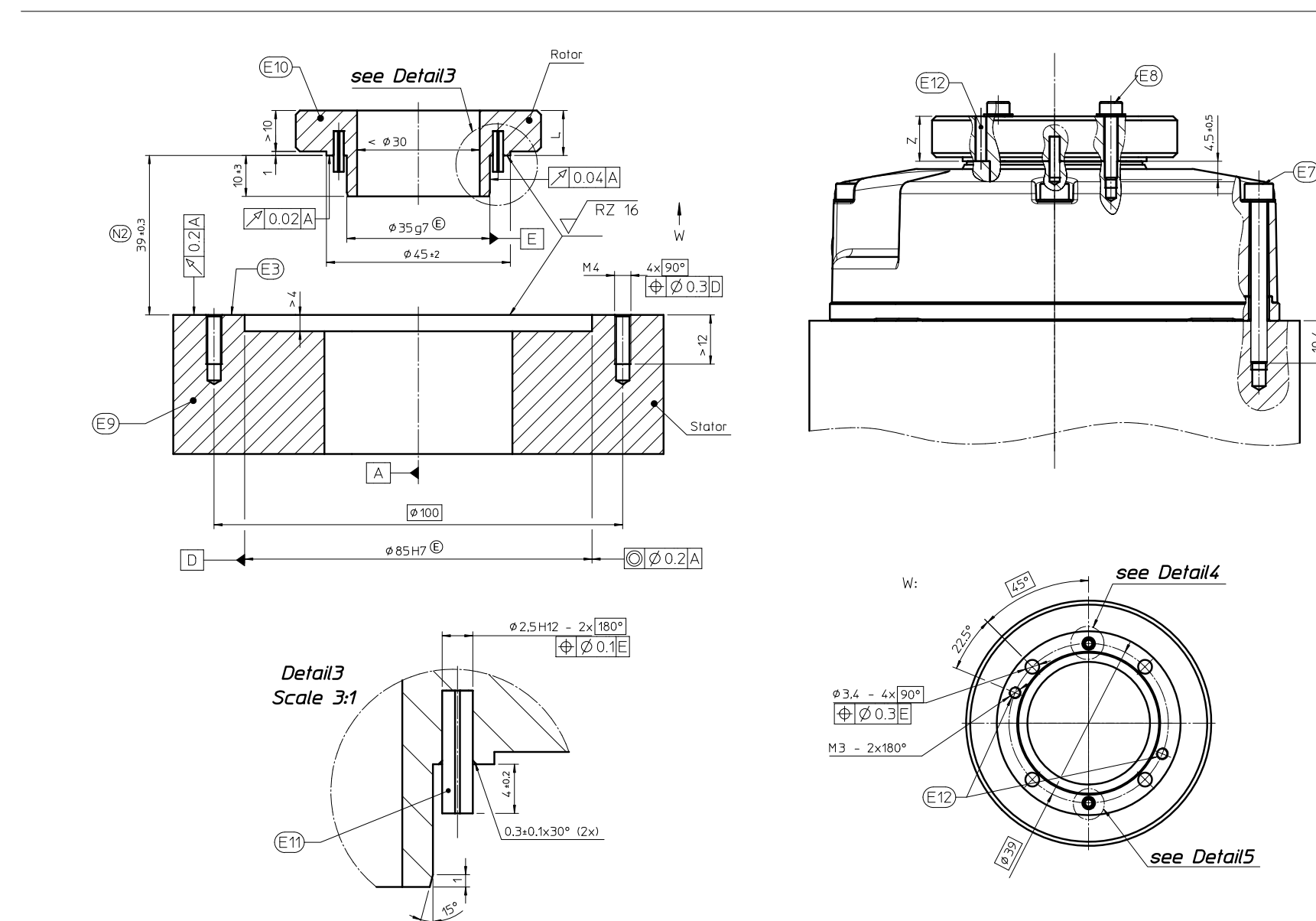
WITH MECHANICAL FAULT EXCLUSION



ALTERNATIVE MOUNTING OPTION: FRONT END SHAFT COUPLING (M) (N1)
WITHOUT MECHANICAL FAULT EXCLUSION

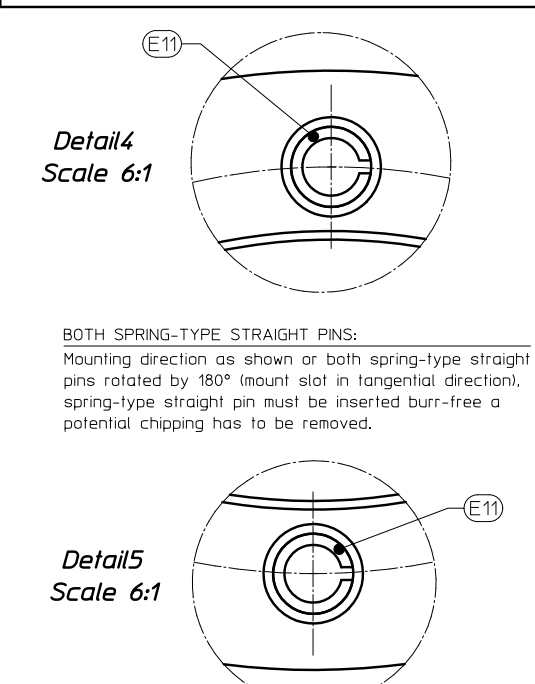
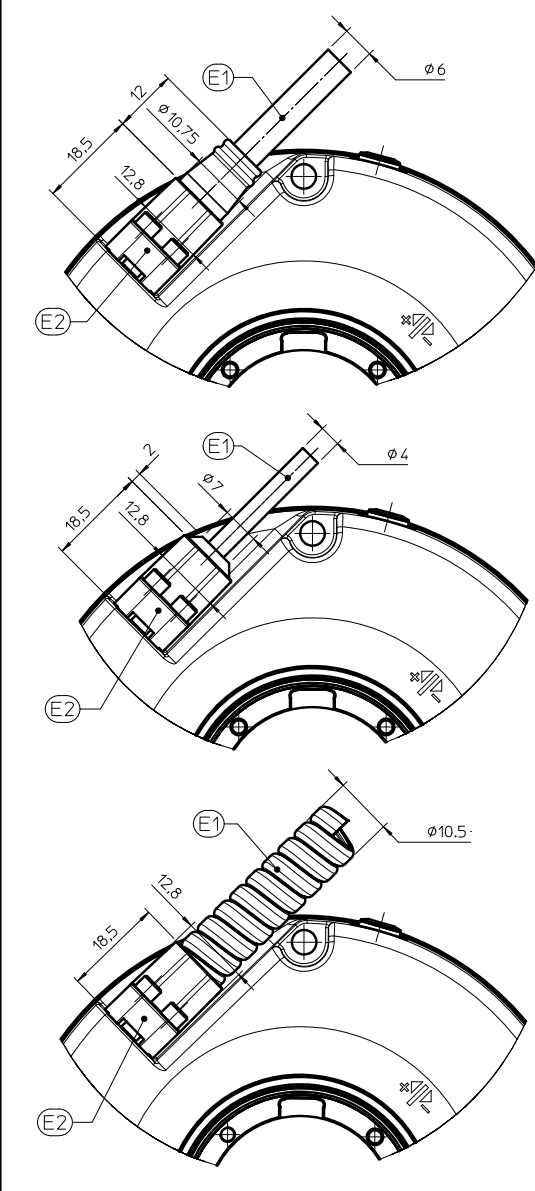


WITH MECHANICAL FAULT EXCLUSION



DIFFERENT TYPES OF CONNECTOR CABLES

- Ⓔ = Three different types of cable:
 - Cable Ø6mm,
 - Cable Ø4mm,
 - Cable Ø10,5mm (with protection).
- Bend radius for flexible configuration for:
 - Cable Ø6mm: R>60mm,
 - Cable Ø4mm: R>40mm,
 - Cable Ø10,5mm: R>60mm,
- Bend radius for rigid configuration for:
 - Cable Ø6mm: R>24mm,
 - Cable Ø4mm: R>16mm,
 - Cable Ø10,5mm: R>35mm.
- Ⓕ = Cable support.



(ABBREVIATIONS)

- | | | | | | |
|---|--|--|--|--------------|--|
| (A) | Bearing of mating shaft. | | | | ring nut (E4) necessary. |
| (M) | Assemble sizing set by customer. | | | (E6) | Hexagon socket head cap screws M4; Pa:2.5x0.15Nm
Screw: ISO4762-M4x40 (4x)
Screw property class: INOX A2
Whasher: ISO7092-4-INOX A2
Materially bonding anti-rotation lock necessary. |
| (R) | Compressed air intake. | | | | |
| (C) | Connector. | | | | |
| (I) | 0° position index ±5°. | | | (E7) | Hexagon socket head cap screws M4; Pa:2.9x0.15Nm
Screw: ISO4762-M4x40 (4x)
Screw property class: 8.8
Whasher: ISO7092-4-200HV
Materially bonding anti-rotation lock necessary. |
|  | Direction of shaft rotating for output signals is described in interface description. | | | (E8) | Hexagon socket head cap screws M3; Pa:1.25x0.1Nm
Screw: ISO4762-M3x(L+4.5) (4x)
Screw property class: 8.8
Whasher: ISO7092-3-200HV
Materially bonding anti-rotation lock necessary. |
| (N1) | Mounting surfaces and threads must be clean and free of grease. | | | | |
| (N2) | Tolerance specification includes mounting tolerances and thermal expansion. No dynamic movement permitted. | | | (E11) | 2x spring-type straight pin for mechanical fault exclusion necessary ISO8752-2.5x10.
Mounting sequence:
1. Mount spring-type straight pins in correct angular position (see detail 4 and 5) in part E8.
2. Mount part E8 using E7 screws.
3. Pay attention to reference dimension Z: L-Z=+0.15 |
| Pa | Tightening torque. | | | | |
| (E3) | Mounting surface. | | | | |
| (E4) | ID: 82620153
Tightening torque of rig nut: 30Nm±3Nm
Materially bonding anti-rotation lock necessary fix mating shaft when mounted. | | | (E12) | Using spring-type straight pins removing threads (M3) necessary, otherwise optional. |

		ⒺⒺ ⒺⒺ - Mating shaft	ⒺⒺ - Mating stator
Material		Ferrous materials (steel/cast iron)	
Tensile strength	R_m	$> 600 \text{ N/mm}^2$	$> 250 \text{ N/mm}^2$
Shear strength	T_b	$> 390 \text{ N/mm}^2$	$> 290 \text{ N/mm}^2$
Interface pressure	p_d	$> 660 \text{ N/mm}^2$	$> 275 \text{ N/mm}^2$
Modulus of elasticity	E	$10000 \text{ N/mm}^2 < E < 215000 \text{ N/mm}^2$	
Coefficient of expansion (at 20°C)	α_{mean}	$10 \times 10^{-6} \text{ } ^\circ\text{C}^{-1} < \alpha < 17 \times 10^{-6} \text{ } ^\circ\text{C}^{-1}$	
Mounting temperature		All information regarding screw connections is based on a mounting temperature of 15°C to 35°C	

[illegible]