

F0iS-SV Torque Sensor (Extended Range)

Transductor de Par F0iS-SV (Inductivo / Robust)



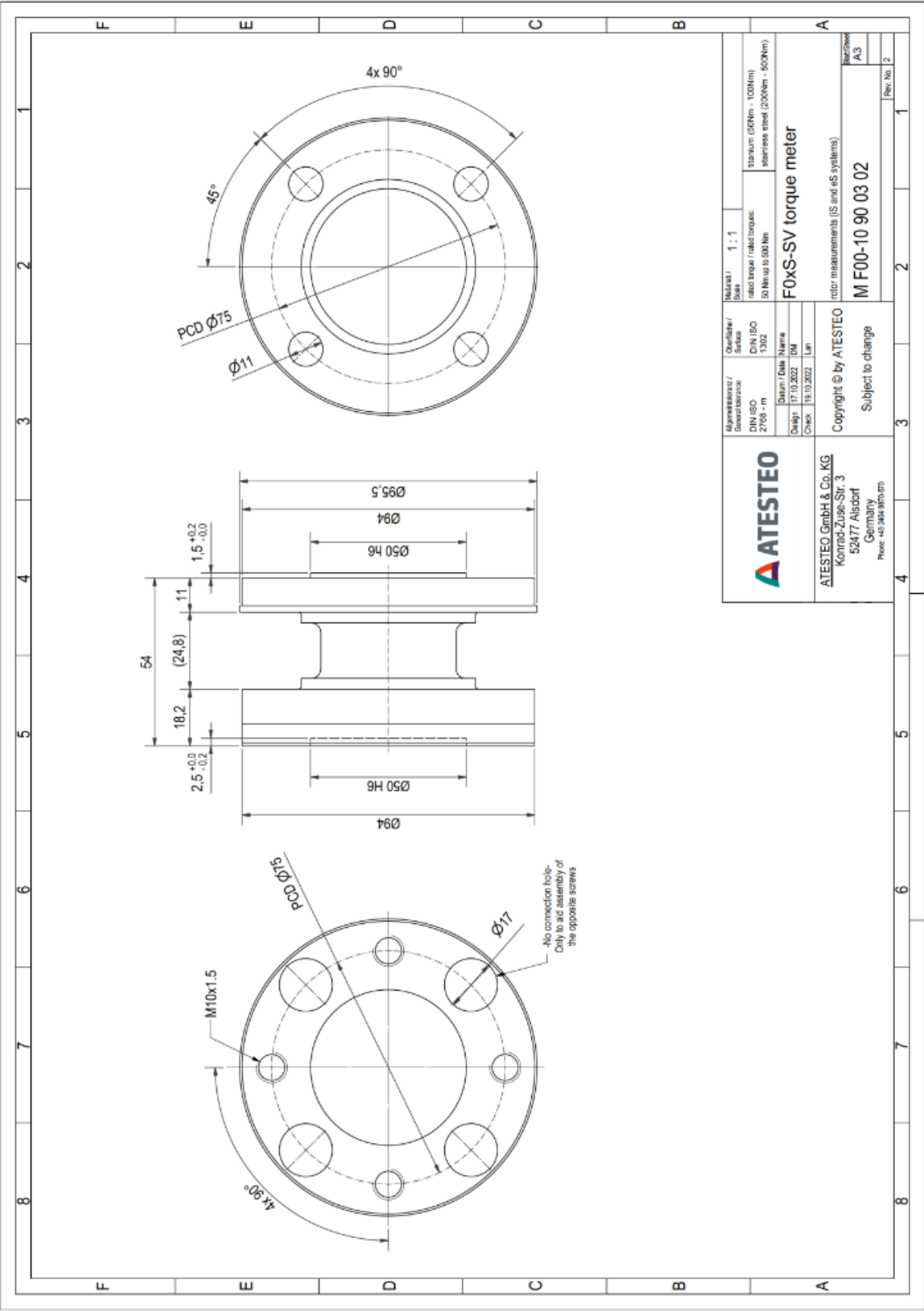
El F0iS-SV es un transductor de par de precisión diseñado para aplicaciones de ensayo dinámico y monitorización de procesos industriales críticos. Su arquitectura se basa en un sistema de transmisión inductiva de energía y datos sin contacto entre el estator y el rotor, eliminando los errores parásitos asociados a los anillos rozantes tradicionales y garantizando una operación libre de mantenimiento con una vida útil teóricamente ilimitada.

El sistema de medición interno utiliza tecnología de alta estabilidad compensada térmicamente para minimizar la deriva del punto cero ($\leq \pm 0.05\%$ / 10K) y la sensibilidad. La electrónica embarcada digitaliza la señal en el propio eje con una resolución de 16 bits, transmitiéndola con un ancho de banda optimizado para capturar transitorios de par de alta frecuencia (hasta 6 kHz a -3dB).

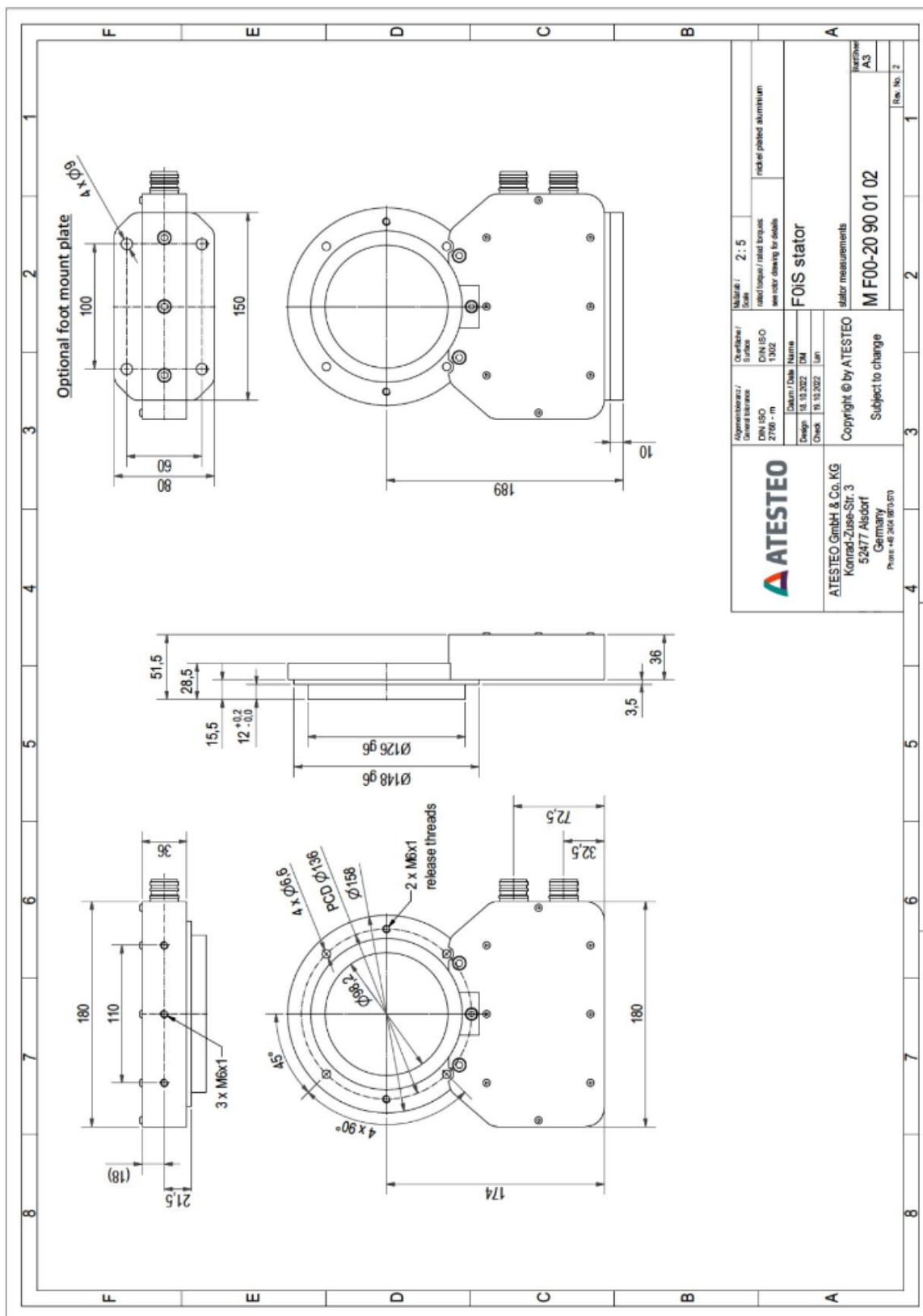
Ofrece una interfaz de salida versátil y simultánea: una señal de frecuencia robusta RS422 (60 kHz \pm 20 kHz) para el control de bucle cerrado de alta velocidad, junto con salidas analógicas ($\pm 10V$ o 4...20mA) y bus de campo CAN para adquisición de datos distribuida. Su construcción mecánica compacta maximiza la rigidez torsional (hasta 975 kNm/rad) y minimiza el momento de inercia, permitiendo mediciones precisas incluso bajo gradientes de aceleración severos.



Par Nominal (Mdn)	100 / 200 / 400 / 500 / 1.000 Nm
Clase de Precisión	$\leq \pm 0.05\%$
Sistema de Transmisión	Inductivo (Sin contacto / Sin mantenimiento)
Velocidad Máxima	Hasta 15.000 rpm (Según tamaño)
Salida de Frecuencia (Par)	60 kHz \pm 20 kHz (RS422)
Salida Analógica	$\pm 10 V$ / 4...20 mA (Configurable)
Salida Digital	CAN bus (2B) / RS232
Rango de Tensión	23 ... 25 V DC
Rango de Temp. (Operativa)	-20 ... +85 °C (Rotor)
Rigidez Torsional	181 ... 975 kNm/rad (Según rango)
Inercia del Rotor	0.0007 ... 0.0013 kgm ²
Peso (Rotor)	0.7 ... 1.1 kg
Límite de Carga (Par)	500% (Standard) / 275-500% (HD)
Carga de Rotura	> 1000% (Standard)
Resistencia a Golpes	650 m/s ² (3 ms)
Resistencia a Vibración	200 m/s ² (10...2000 Hz)



Estator (Estándar)

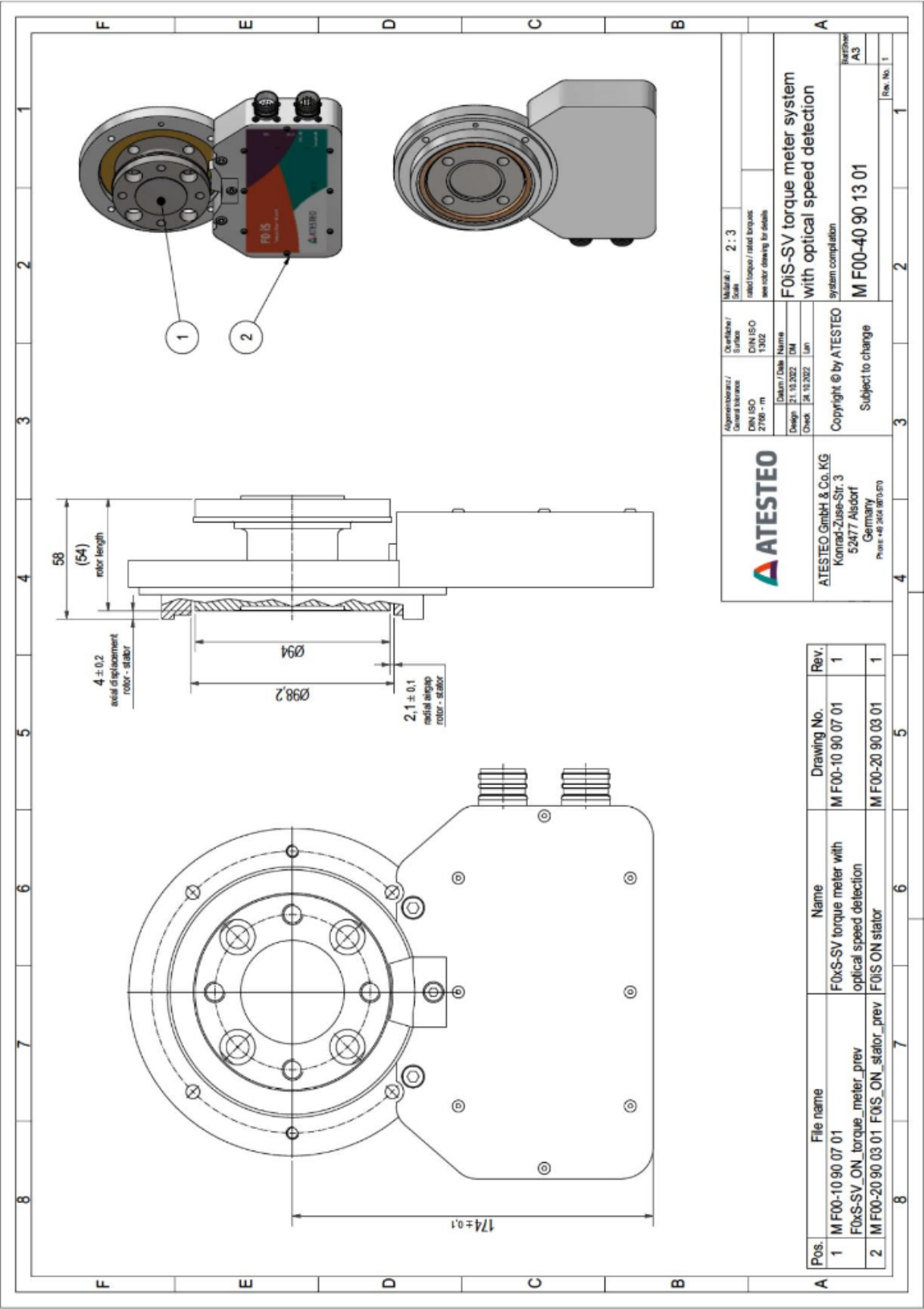


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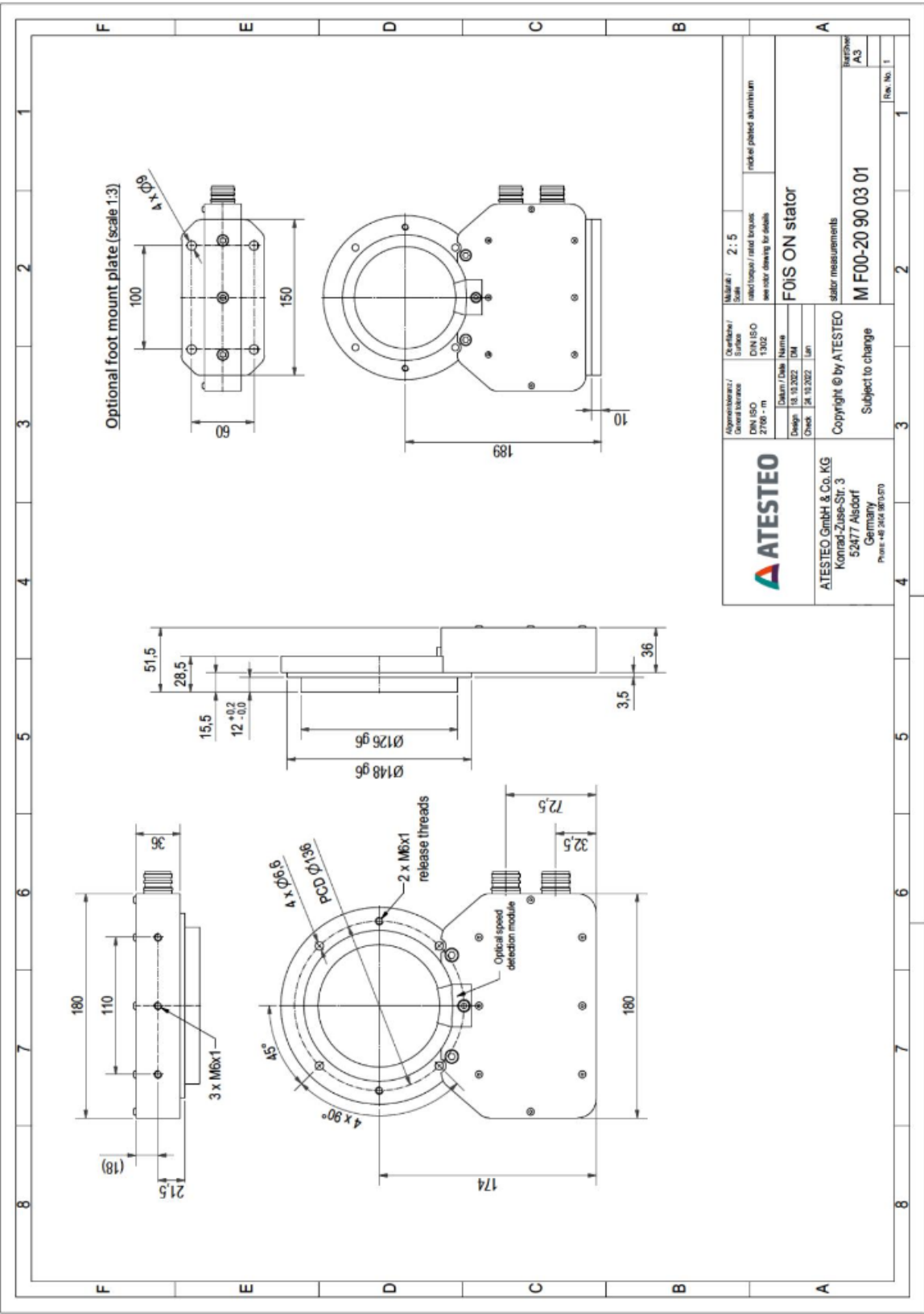
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Phone +49 2404 9870-570

2. Versión con Velocidad (SPD_OPT) ≤ 500Nm

Vista General del Sistema (SPD_OPT)

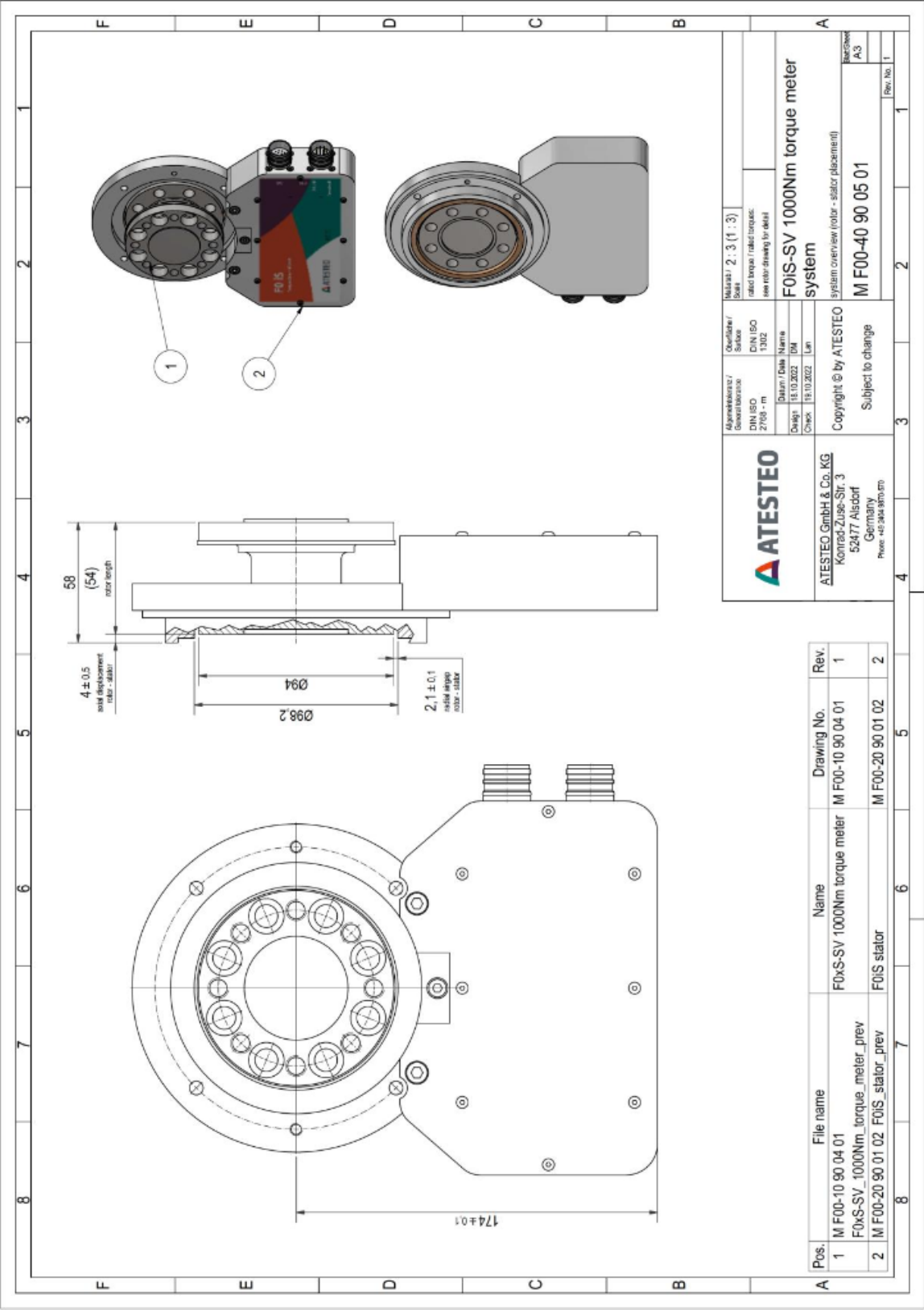


Rotor (SPD_OPT)

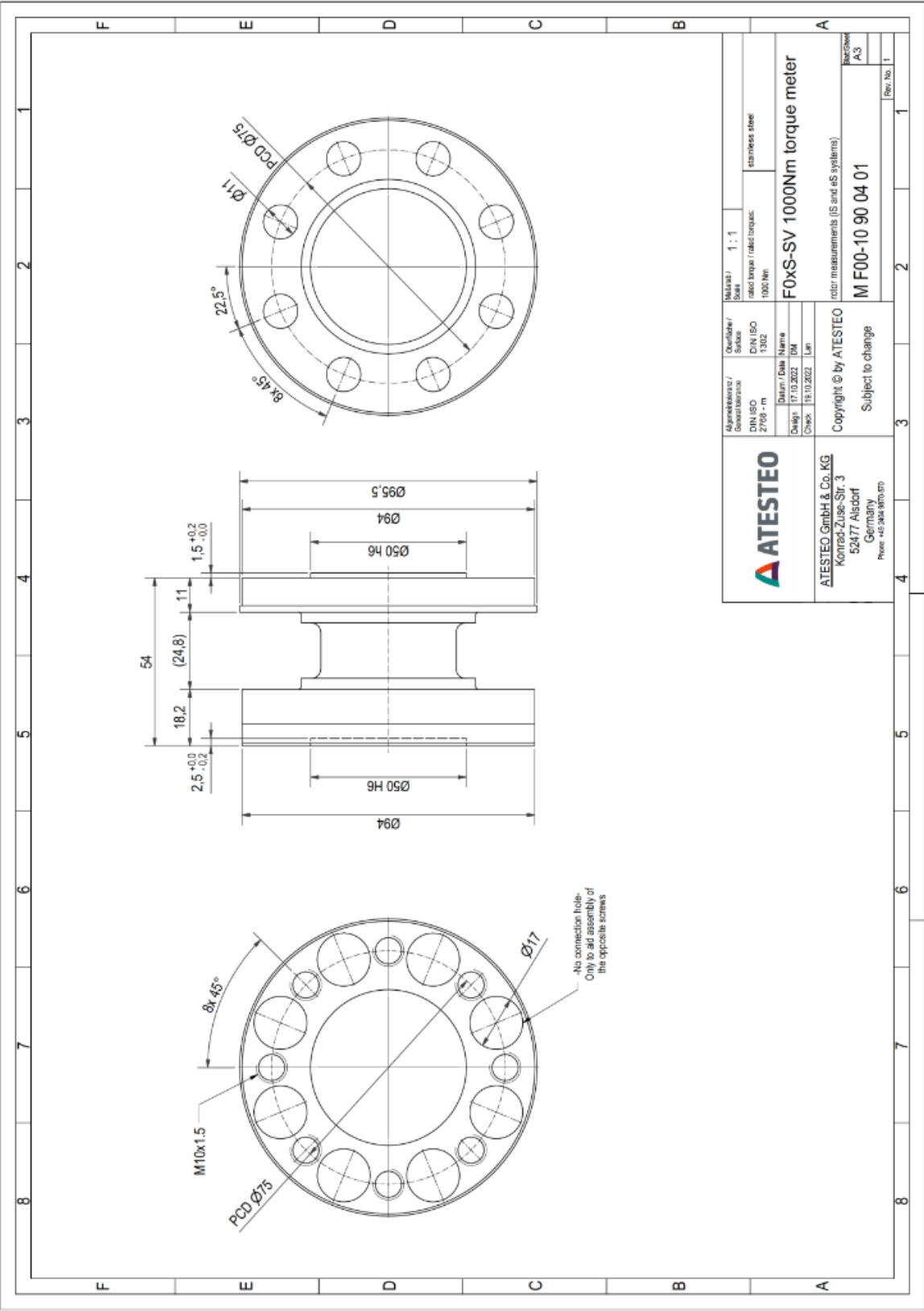


3. Versión Heavy Duty (1000 Nm)

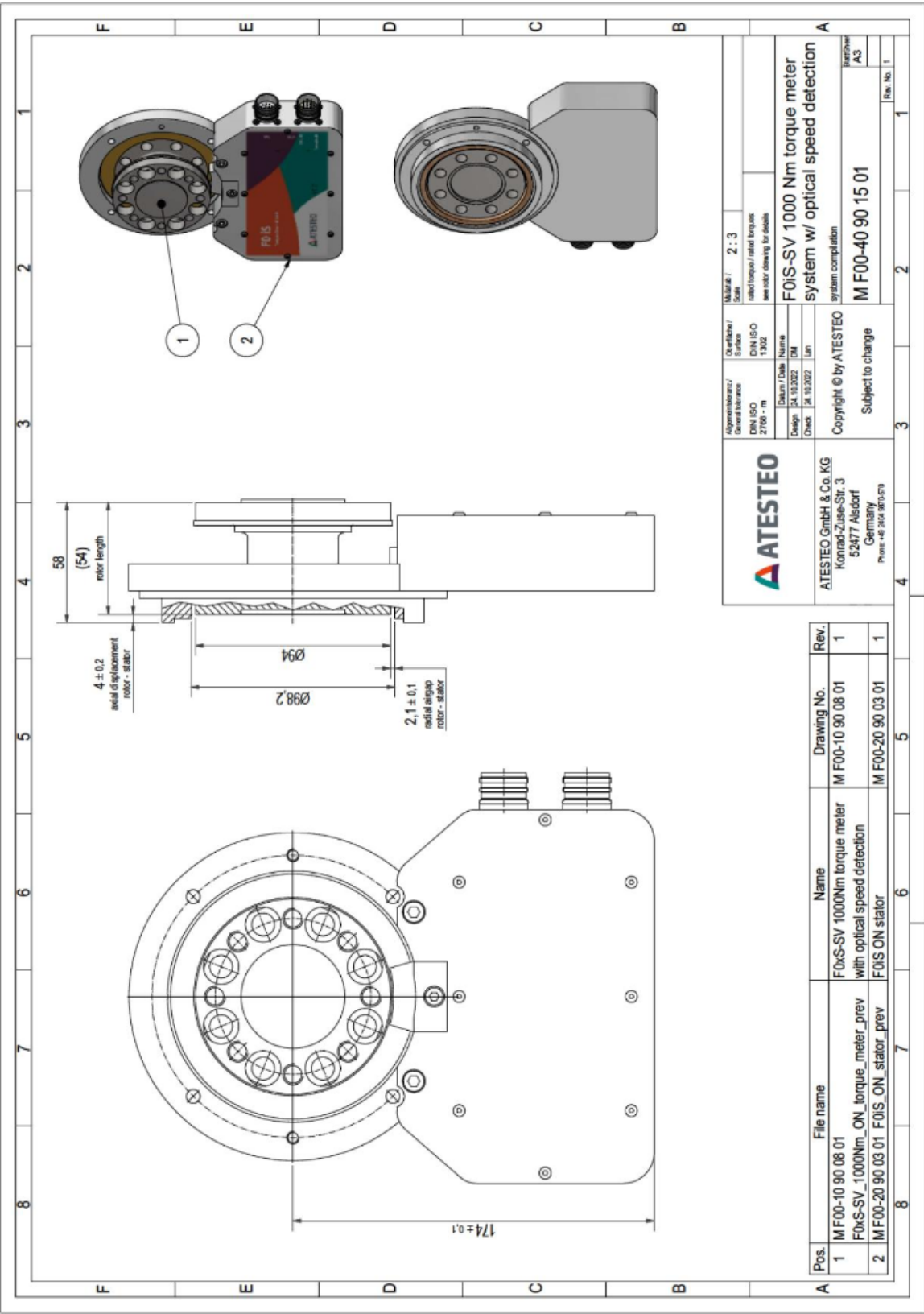
Sistema (1000 Nm)



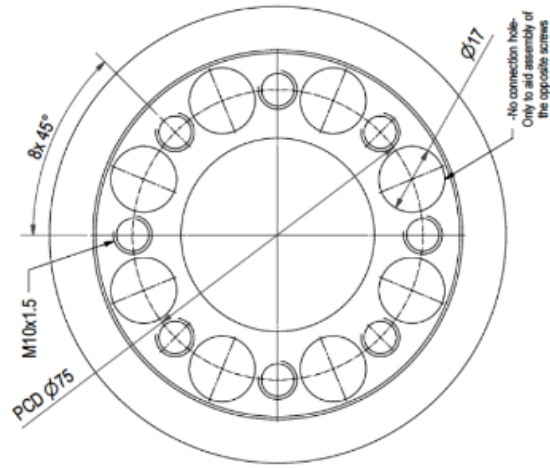
Rotor / Vista Detallada (1000 Nm)




Sistema con Velocidad (1000 Nm)



Rotor con Velocidad (1000 Nm)



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KG Konrad-Zuse-Str. 3 52477 Alsdorf Germany Phone: +49 2404 970-570</div>	<div>Copyright © by ATESTEO Subject to change</div>	<div>4</div>	<div>3</div>	<div>Material / Scale</div> <div>1 : 1</div>	<div>Outerflange / Surface DIN ISO 1302</div>	<div>Abmessungen / General dimensions DIN ISO 2768 - m</div>	<div>Design: 21.10.2022 Check: 18.10.2022</div>	<div>Datum / Date: 21.10.2022 Name: Lm: </div>	<div>Material / Scale</div> <div>1 : 1</div>	<div>Outerflange / Surface DIN ISO 1302</div>	<div>Abmessungen / General dimensions DIN ISO 2768 - m</div>	<div>Design: 21.10.2022 Check: 18.10.2022</div>	<div>Datum / Date: 21.10.2022 Name: Lm: </div>	<div>Material / Scale</div> <div>1 : 1</div>	<div>Outerflange / Surface DIN ISO 1302</div>	<div>Abmessungen / General dimensions DIN ISO 2768 - m</div>	<div>Design: 21.10.2022 Check: 18.10.2022</div>	<div>Datum / Date: 21.10.2022 Name: Lm: </div>	<div>Material / Scale</div> <div>1 : 1</div>	<div>Outerflange / Surface DIN ISO 1302</div>	<div>Abmessungen / General dimensions DIN ISO 2768 - 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4. Unidad de Control (TCU2)

Dimensiones TCU2

