

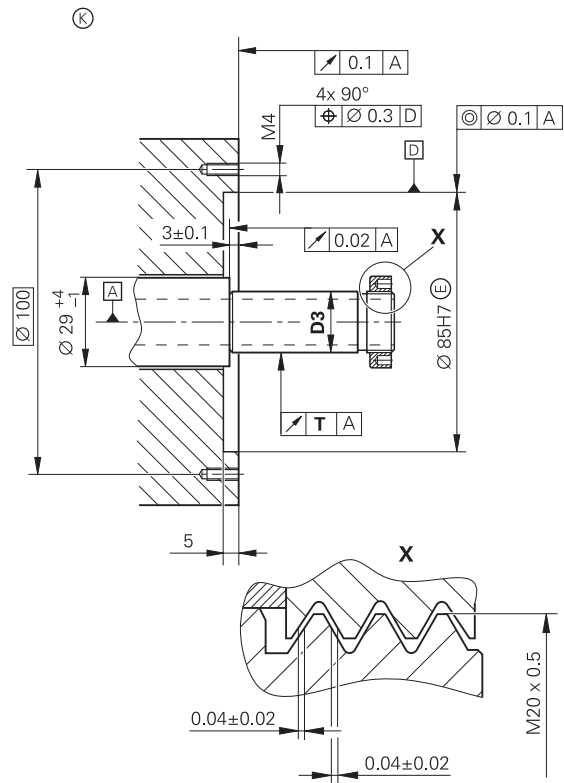
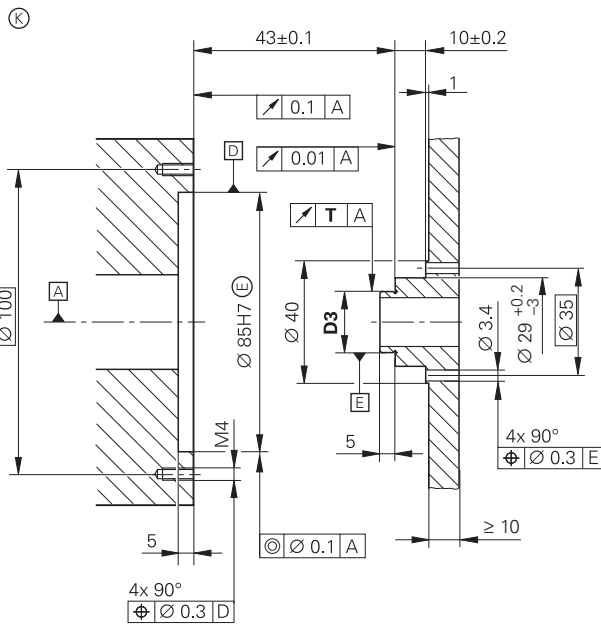
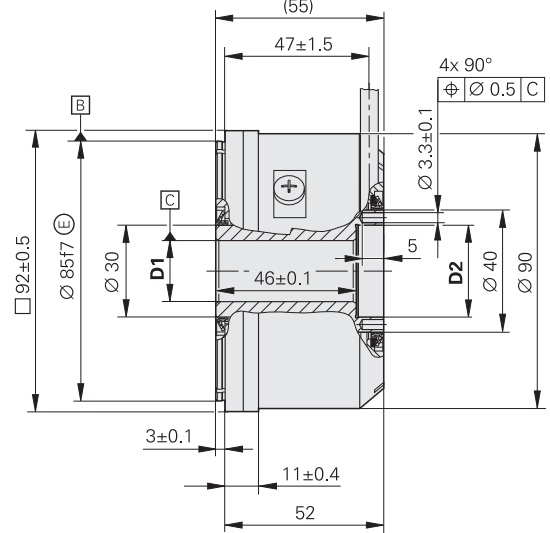
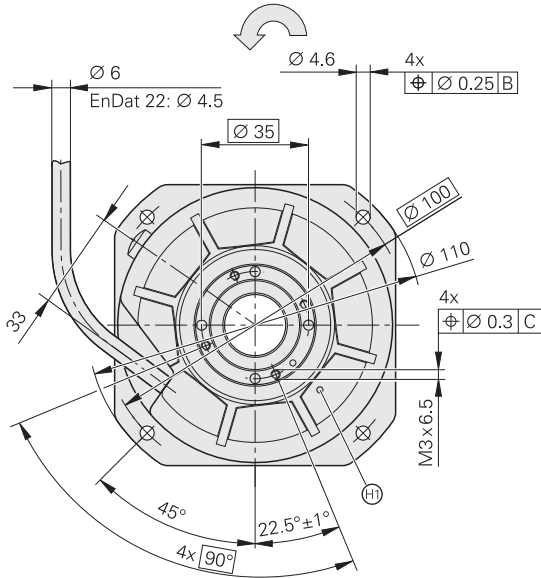
RCN 200 Series

- Integrated stator coupling
- Hollow through shaft $\varnothing 20$ mm
- System accuracy $\pm 5''$ and $\pm 2.5''$

Dimensions in mm



Tolerancing ISO 8015
ISO 2768 - m H
< 6 mm: ± 0.2 mm



Cable radial, also usable axially

▣ = Bearing

⊗ = Required mating dimensions

⊕ = Mark for 0° position ($\pm 5^\circ$)

↻ Direction of shaft rotation for output signals as per the interface description

System accuracy	$\pm 2.5''$	$\pm 5''$
D1	$\varnothing 20H6 \text{ E}$	$\varnothing 20H7 \text{ E}$
D2	$\varnothing 30H6 \text{ E}$	$\varnothing 30H7 \text{ E}$
D3	$\varnothing 20g6 \text{ E}$	$\varnothing 20g7 \text{ E}$
T	0.01	0.02

	Absolute			
	RCN 228 RCN 226		RCN 227F RCN 223F	RCN 227M RCN 223M
Absolute position values	EnDat 2.2	EnDat 2.2	Fanuc serial interface	Mitsubishi High Speed Serial Interface
Ordering designation*	EnDat 22	EnDat 02	Fanuc 02	Mit 02-4
Positions per revolution	RCN 228: 268 435 456 (28 bits) RCN 226: 67 108 864 (26 bits)		RCN 227: 134 217 728 (27 bits) RCN 223: 8 388 608 (23 bits)	
Elec. permissible speed	$\leq 1500 \text{ min}^{-1}$			
Clock frequency	$\leq 8 \text{ MHz}$	$\leq 2 \text{ MHz}$	–	
Calculation time t_{cal}	5 μs		–	
Incremental signals	–	$\sim 1 \text{ V}_{\text{PP}}$	–	
Line count	–	16 384	–	
Cutoff frequency –3 dB	–	$\geq 180 \text{ kHz}$	–	
Recommended measuring step for position measurement	0.0001°			
System accuracy*	RCN 228: $\pm 2.5''$ RCN 226: $\pm 5''$		RCN 227F: $\pm 2.5''$ RCN 223F: $\pm 5''$	RCN 227M: $\pm 2.5''$ RCN 223M: $\pm 5''$
Power supply Without load	3.6 V to 5.25 V at encoder/max. 350 mA			
Electrical connection	Cable 1 m, with coupling M12	Cable 1 m, with M23 coupling	Cable 1 m, with M23 coupling	
Max. cable length¹⁾	150 m		30 m	
Shaft	Hollow through shaft D = 20 mm			
Mech. perm. speed	$\leq 3000 \text{ min}^{-1}$			
Starting torque	$\leq 0.08 \text{ Nm}$ at 20 °C			
Moment of inertia of rotor	$73 \cdot 10^{-6} \text{ kgm}^2$			
Natural frequency	$\geq 1200 \text{ Hz}$			
Permissible axial motion of measured shaft	$\pm 0.1 \text{ mm}$			
Vibration 55 to 2000 Hz Shock 6 ms	$\leq 100 \text{ m/s}^2$ (EN 60068-2-6) $\leq 1000 \text{ m/s}^2$ (EN 60068-2-27)			
Operating temperature	For accuracy of $\pm 2.5''$: 0 to 50 °C For accuracy of $\pm 5''$: Moving cable –10 to 70 °C Stationary cable: –20 to 70 °C			
Protection EN 60529	IP 64			
Weight	Approx. 0.8 kg			

* Please select when ordering

¹⁾ With HEIDENHAIN cable

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