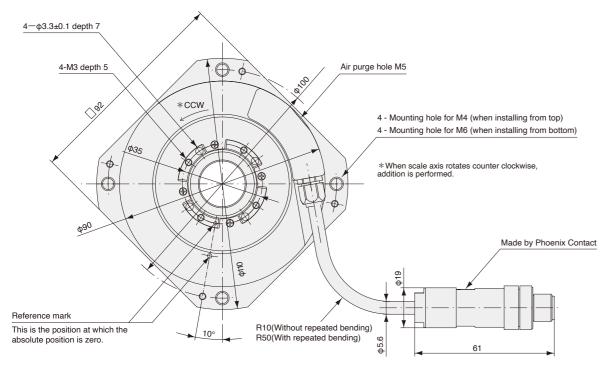
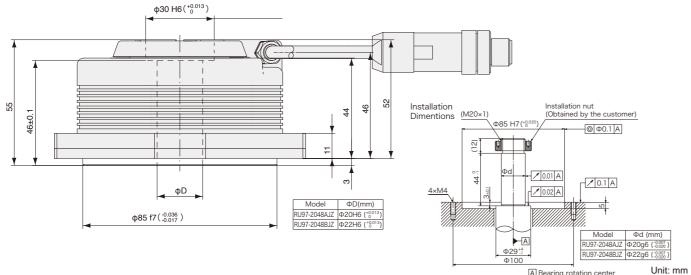
## Enclosed type

- Enables direct communication using the SIEMENS DRIVE-CLiQ protocol without the requirement of an amplifier
- Magnetic system enables use even in environments with condensation, oil, and other adverse conditions
- · Internal coupling allows for design and mounting flexibility







Model name	RU97-2048AJZ RU97-2048BJZ
Output wave number	2,048 waves/revolution
Through hole diameter	A: φ20 mm, B: φ22 mm
Accuracy(at 20°C)	±2.5"
Output signal	Compliant with DRIVE-CLiQ, single turn absolute type
Compatible controllers	SIEMENS AG
Resolution	25 bit (33,554,432 pulses/revolution)
Maximum response revolutions	2,000 min <sup>-1</sup>
Maximum mechanical revolutions	3,000 min <sup>-1</sup>
Functional safety	IEC 61508, EN/BS 62061 SIL 2 EN/BS/ISO 13849-1 Cat. 3 / PL d EN/BS 61800-5-2
Product Safety	FCC Part15 Subpart B Class A ICES-003 Class A Digital Device EN/BS 61000-6-2, EN/BS 61000-6-4
Product Environment	EN/BS 63000
Operating temperature range	0 to +60°C
Storage temperature range	-10 to +60°C
Vibration resistance	150 m/s² (50 Hz to 2,000 Hz)
Impact resistance	1,000 m/s² (11 ms)
Protective design grade	IP65
Power supply voltage range	DC+17 to +30.8 V
Maximum consumption current	1.6 W or less (17 V or 30.8 V)
Consumption current	65 mA (24 V) (when the controller is connected)
Moment of inertia	9.4×10 <sup>-5</sup> kgm <sup>2</sup> or less
Starting torque (at 20°C)	0.08 Nm or less
Mass	Approx. 1.2kg or less
Compatible cables (types without relay connectors) Maximum cable length	CH22-***NSFY 30 m
Compatible cables (types with relay connectors) Maximum cable length	CH22-***NSFF + CH22-***NSFY 30 m

<sup>\*</sup>Magnescale reserves the right to change product specifications without prior notice.

## Details of model designation

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J.	(:1	ıe

RU97-2048☆JZ■■

[J]Resolution 25 bit Type Drum inner diameter [Z]SIEMENS AG DRIVE-CLIQ

[■■]Head cable length Type Head cable length
01 1 m

Cables

 $\texttt{CH22-} \,\square\,\,\square\,\,\square\,\,\bigcirc\,\,\triangledown\,\,\%\,\,\#$ 

[□□□]Cable length Written by flush right, indication in "m" units, up to 30 m, 0.5 m pitcl

up to 30 III, 0.3 III pitcii					
(Example)		[O]Conduit specification			
	Type	Cable length	Type	Conduit specification	
	015	1.5m	С	With conduit	
	070	7m	N	Without conduit (standard)	
	260	26m			

Type	Cable specification			
S	PU (Polyurethane, Siemens Motion connect 800+)			
[*] Scale side connector				
Type	Specification	Remarks		
М	Scale head connector	Standard		
F	M12 connector (Female) made by Phoenix Contact	Relay/ Waterproofing		
Е	M12 connector (Female) made by Phoenix Contact	Relay/ Waterproofing/ Attached connector		
[#]Controller side connector				
Type	Specification	Remarks		
None	Open-end			

a CH22-100NSFY b	Scale side	a CH22-050NSFF b		a CH22-055NSFY H22		Controllers
HZZ-USUNSFF CHZZ-TUUNSFT CHZZ-USSNSFT		a -050NSFF		SFY CH22-055N	b L	<u>p</u>

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