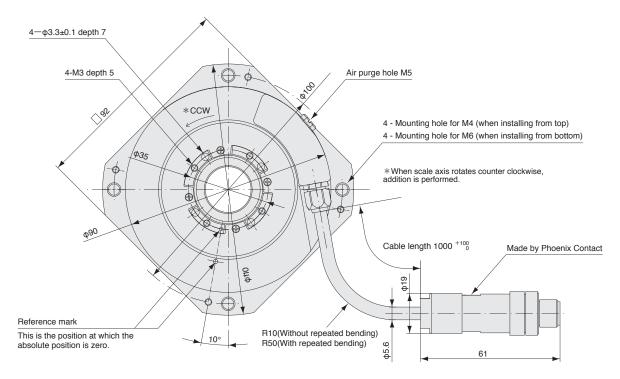
# Enclosed type

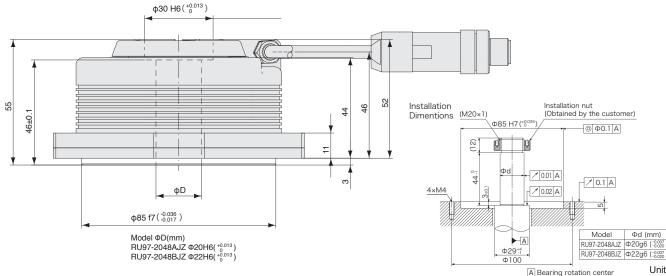
# RU97<sub>-2048</sub>

- · 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



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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	EN ISO13849-1:2008 Cat.3 EN 62061:2005 / IEC 61508:2010 / EN61800-5-2:2007			
Legal compliance	FCC Part15 Subpart B Class A ICES-003 Class A Digital Device EN55011 Gp1 Class A, EN61000-6-2			
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> kgm² 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

Scale
RU97-2048☆JZ■■

- 17 <b></b>	Type	Drum inner diameter
	Α	Ф20 mm
	В	Ф22 mm

[J]Resolution 25 bit [Z] SIEMENS AG DRIVE-CLIQ

[■■]Head cable length				
Туре	Head cable length			
01	1 m			
02	2 m			
03	3 m			

# Cables

CH22-□□□○▽※#

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

Example)		[O]Conduit specification			
Туре	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	e 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/ Attatched connector		
[#]Cont	roller side connector			
Type	Specification	Remarks		
None	Open-end			
Υ	RJ45 connector made by YAMAICHI ELECTRONICS	Adopts NC machine too		
7	P.M.S. connector (water proof) made by VAMAICHI ELECTRONICS   P.o.lay			

Y R.45 connector made by YAMAICH ELECTRONICS Adopts NC machine tool
Z R.45 connector (water proof) made by YAMAICH ELECTRONICS Relay
F M12 connector (Male) made by Phoenix Contact Relay/Waterproofing

Scale a CH22-09		CH22 Controller
a CH22-050NSFF	CH22-100NSFY	b Si. Od e
example) Cable length 5m Without conduit PU sheath Scale side connector M12 (Female) made by Phoenix Contact	example) Cable length 10m Without conduit PU sheath Scale side connector M12 (Fernale) made by Phoenix Contact	example) Cable length 5m Without conduit PU sheath Scale side connector M12 (Female) made by Phoenix Contact