



Apr.1.2026 Copyright 2026 HIROSE ELECTRIC CO., LTD. All Rights Reserved.
In case of consideration for using Automotive equipment / device which demand high reliability, kindly contact our sales window correspondents.

APPLICABLE STANDARD					
RATING	OPERATING TEMPERATURE RANGE	-30 °C TO 105 °C (NOTE1)		STORAGE TEMPERATURE RANGE	-40 °C TO 105 °C
	VOLTAGE	250 V AC		CURRENT	1 A
SPECIFICATIONS					
ITEM	TEST METHOD	REQUIREMENTS	QT	AT	
CONSTRUCTION					
GENERAL EXAMINATION	VISUALLY AND BY MEASURING INSTRUMENT.	ACCORDING TO DRAWING.	x	x	
MARKING	CONFIRMED VISUALLY.		x	x	
ELECTRIC CHARACTERISTICS					
CONTACT RESISTANCE	1A DC.	30 mΩ MAX.	x	-	
CONTACT RESISTANCE MILLIVOLT LEVEL METHOD	20 mV AC MAX, 0.1 mA(OR 1kHz)	30 mΩ MAX.	x	-	
INSULATION RESISTANCE	DC 500 V	100 MΩ MIN.	x	-	
VOLTAGE PROOF	AC 500 V FOR 1 min.	NO SHORT OR BREAKDOWN.	x	-	
MECHANICAL CHARACTERISTICS					
CENTER CONTACT INSERTION AND EXTRACTION FORCES	0.5 × 0.6 BY STEEL GAUGE.	INSERTION FORCE 2.5 N MAX. EXTRACTION FORCE 0.45 N MIN.	x	-	
OUTER CONTACT INSERTION AND EXTRACTION FORCES	4.25 × 3.25 BY STEEL GAUGE.	INSERTION FORCE 40.0 N MAX. EXTRACTION FORCE 10.0 N MIN.	x	-	
MECHANICAL OPERATION	30 TIMES INSERTIONS AND EXTRACTIONS.	① CONTACT RESISTANCE: 60 mΩ MAX.. ② NO DAMAGE, CRACK AND LOOSENESS, OF PARTS.	x	-	
VIBRATION	FREQUENCY 20 TO 200 Hz, 43.1m/s ² , AT 3h FOR 3 DIRECTIONS.	① NO ELECTRICAL DISCONTINUITY OF 10 μs. ② CONTACT RESISTANCE:60 mΩ MAX ③ NO DAMAGE, CRACK AND LOOSENESS, OF PARTS.	x	-	
SHOCK	FREQUENCY 20 TO 50 Hz,66.6m/ s ² AT 1 h.	① NO ELECTRICAL DISCONTINUITY OF 10 μs. ② CONTACT RESISTANCE:60 mΩ MAX ③ NO DAMAGE, CRACK AND LOOSENESS, OF PARTS.	x	-	
LOCK STRENGTH	APPLYING A PULL FORCE THE MATING AXIALLY AT 98N MAX.	① DURING APPLYING,MATING COMPLETELY. ② AFTER APPLYING,NO DEFECT OF MATING PARTS.	-	-	
ENVIRONMENTAL CHARACTERISTICS					
DAMP HEAT (STEADY STATE)	EXPOSED AT 60°C, 90 TO 95%, 500h.	① CONTACT RESISTANCE: 60 mΩ MAX. ② INSULATION RESISTANCE:100 MΩ MIN. ③ NO DAMAGE, CRACK AND LOOSENESS, OF PARTS.	x	-	
RAPID CHANGE OF TEMPERATURE	TEMPERATURE:-40→5 TO 35→105→5 TO 35°C TIME: 30→5→30→5 MIN UNDER 1000 CYCLES.	① CONTACT RESISTANCE: 60 mΩ MAX. ② INSULATION RESISTANCE:100 MΩ MIN. ③ NO DAMAGE, CRACK AND LOOSENESS, OF PARTS.	x	-	
DRY HEAT	EXPOSED AT 105°C, 300h.	① CONTACT RESISTANCE: 60 mΩ MAX. ② NO DAMAGE, CRACK AND LOOSENESS, OF PARTS.	x	-	
COLD	EXPOSED AT -55°C, 120h.	① CONTACT RESISTANCE: 60 mΩ MAX. ② NO DAMAGE, CRACK AND LOOSENESS, OF PARTS	x	-	
RESISTANCE TO HSO ₃ GAS	EXPOSED IN 500 PPM FOR 8h.	① CONTACT RESISTANCE: 60 mΩ MAX. ② NO HEAVY CORROSION.	x	-	
	COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE
REMARK (NOTE1) INCLUDE THE TEMPERATURE RISING BY CURRENT. (NOTE2) CONTACT RESISTANCE OF OUTER CONDUCTOR AFTER ENVIRONMENTAL AND DURABILITY TEST SHALL BE 120 mΩ.			APPROVED	KI. HIROKAWA	20200331
			CHECKED	MO. OKADA	20200331
			DESIGNED	NK. IKUTA	20200331
			DRAWN	YK. MITSUISHI	20200318
Note	QT:Qualification Test AT:Assurance Test X:Applicable Test		DRAWING NO.	ELC-165699-55-00	
	SPECIFICATION SHEET		PART NO.	GT13-30/1. 6-2. 9SCF (55)	
	HIROSE ELECTRIC CO., LTD.		CODE NO.	CL763-0012-0-55	 1/1