APPLICABLE STANDARD		MIL-C-5015		
RATING	OPERATING TEMPERATURE RANGE	-40 °C TO +125 °C	STORAGE TEMPERATURE RANGE	-10 °C TO +60 °C
	VOLTAGE	AC 500 V , DC 700 V	————	————
	CURRENT	13 A(1)	APPLICABLE CABLE	————

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	CONTACT SHALL BE MEASURED AT DC 1 A. (MIL-C-2316)	5 mΩ MAX.	X	X
INSULATION RESISTANCE	500 V DC. (MIL-STD-1344 3003)	5000 MΩ MIN.	X	X
VOLTAGE PROOF	1000 V AC. FOR 1 min. (MIL-STD-1344 3001)	NO FLASHOVER OR BREAKDOWN.	X	X
MECHANICAL CHARACTERISTICS				
CONTACT INSERTION AND WITHDRAWAL FORCES	$\phi 1.562\,^{+0.003}_{0}$ BY STEEL GAUGE.	INSERTION AND WITHDRAWAL FORCES : 0.6 N MIN.	X	—
CONNECTOR INSERTION AND WITHDRAWAL FORCES	MEASURED BY APPLICABLE CONNECTOR. (WITHOUT LOCK MECHANISM)	INSERTION AND WITHDRAWAL FORCES : 40 N MAX.	X	—
MECHANICAL OPERATION	500 TIMES INSERTIONS AND EXTRACTIONS. (MIL-C-5015 4,6,12,2)	CONTACT RESISTANCE: 7.5 mΩ MAX.	X	—
VIBRATION	FREQUENCY: 10 TO 500 Hz, SINGLE AMPLITUDE 0.75 mm, 98 m/s² AT 3h, FOR 3 DIRECTIONS. (MIL-STD-1344 2005, CONDITION Ⅱ)	①NO ELECTRICAL DISCONTINUITY OF 10 μs. ②NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	X	—
SHOCK	490 m/s² DURATIONS OF PULSE 11 ms AT 3 TIMES FOR 3 DIRECTIONS. (MIL-STD-1344 2004, CONDITION E)	①NO ELECTRICAL DISCONTINUITY OF 10 μs. ②NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	X	—
ENVIRONMENTAL CHARACTERISTICS				
DAMP HEAT (STEADY STATE)	EXPOSED AT 71℃, 95%, 336h. (MIL-C-5015 4,6,10)	① INSULATION RESISTANCE: 50 MΩ MIN. (AT HIGH HUMIDITY). ② INSULATION RESISTANCE: 500 MΩ MIN. (AT DRY). ③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	X	—
RAPID CHANGE OF TEMPERATURE	TEMPERATURE -55→ R/T(2) → +125 → R/T ℃ TIME 30 → 10 TO 15 → 30 → 10 TO 15 min UNDER 5 CYCLES. (MIL-C-5015 4,6,4)	① INSULATION RESISTANCE: 5000 MΩ MIN.. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	X	—
SEALING(3)	EXPOSED AT A DEPTH OF 1.8 m FOR 48 h.	NO WATER PENETRATION INSIDE CONNECTOR.	X	—
AIRTIGHTNESS(3)	APPLY AIR PRESSURE 40 kPa FOR 30 s TO INSIDE CONNECTOR.	NO AIR BUBBLES FROM CONNECTOR INTERFACE.	X	—
CORROSION SALT MIST	EXPOSED IN 5 % SALT WATER SPRAY FOR 48 h. (MIL-STD-1344 1001 CONDITION B)	NO HEAVY CORROSION RUIN THE FUNCTION.	X	—
OIL RESISTING(3)	DROP CUTTING OIL FOR 48 HOURS AT THE RATE OF 0.5 L/h. (JIS B 6015)	NO OIL SEEPAGE INSIDE CONNECTOR.	X	—
RESISTANCE TO SOLDERING HEAT	SOLDERED AT SOLDER TEMPERATURE, +380℃±10℃ FOR SOLDERING DURATION, 10±1 s.	NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS.	X	—
SOLDERABILITY	SOLDERED AT SOLDER TEMPERATURE, +350℃±10℃ FOR SOLDERING DURATION, 5±1 s.	WETTING ON SOLDER SURFACE. NO SOLDER CLUSTER.	X	—

	COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE
A					

REMARK

NOTES (1) 13 A RATED CURRENT IS THE MAXIMUM CURRENT FLOW PER CONTACT.
BUT THE CURRENT CAPACITY OF WHOLE IS CONNECTOR 34.5 A MAX..
(2) R/T : ROOM TEMPERATURE
(3) SEALING AND AIRTIGHTNESS SHALL BE TESTED BY APPLICABLE CONNECTOR.

Unless otherwise specified, refer to IEC 60512 (JIS C 5402).

APPROVED	HY.KOBAYASHI	18.06.12
CHECKED	HY.KOBAYASHI	18.06.12
DESIGNED	HY.KISHI	18.06.12
DRAWN	HY.KISHI	18.06.12

Note QT:Qualification Test AT:Assurance Test X:Applicable Test

DRAWING NO. ELC-048959-76-00

HRS	SPECIFICATION SHEET	PART NO.	H/MS3106A10SL-3S(76)	
	HIROSE ELECTRIC CO., LTD.	CODE NO.	CL120-0603-9-76 A	1/1

FORM HD0011-2-1