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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	———— BY STEEL GAUGE.		INSERTION AND WITHDRAWAL FORCES : — N MIN.	—	—
CONNECTOR INSERTION AND WITHDRAWAL FORCES	MEASURED BY APPLICABLE CONNECTOR. (WITHOUT LOCK MECHANISM)		INSERTION AND WITHDRAWAL FORCES : 30 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/s ² AT 3h, FOR 3 DIRECTIONS. (MIL-STD-1344 2005, CONDITION II)		① NO ELECTRICAL DISCONTINUITY OF 10 μs. ② NO DAMAGE, CRACK AND LOOSENESS, OF PARTS.	X	—
SHOCK	490 m/s ² DURATIONS OF PULSE 11 ms AT 3 TIMES FOR 3 DIRECTIONS. (MIL-STD-1344 2004, CONDITION E)		① NO ELECTRICAL DISCONTINUITY OF 10 μs. ② NO DAMAGE, CRACK AND LOOSENESS, OF PARTS.	X	—
ENVIRONMENTAL CHARACTERISTICS					
DAMP HEAT (STEADY STATE)	EXPOSED AT 71°C, 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. ④ NO HEAVY CORROSION.	X	—
RAPID CHANGE OF TEMPERATURE	TEMPERATURE -55 → R/T ⁽²⁾ → +125 → R/T °C TIME 30 → 10 TO 15 → 30 → 10 TO 55 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	EXPOSED AT A DEPTH OF 1.8 m FOR 48 h.		NO WATER PENETRATION INSIDE CONNECTOR.	X	—
AIRTIGHTNESS	APPLY AIR PRESSURE 40 kPa FOR 30 s TO INSIDE CONNECTOR.		NO AIR BUBBLES FROM CONNECTOR INTERFACE.	X	X
RESISTANCE TO SOLDERING HEAT	SOLDERED AT SOLDER TEMPERATURE, +380°C±10°C FOR SOLDERING DURATION, 5±1 s.		NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS.	X	—
SOLDERABILITY	SOLDERED AT SOLDER TEMPERATURE, +350°C±10°C FOR SOLDERING DURATION, 5±1 s.		WETTING ON SOLDER SURFACE. NO SOLDER CLUSTER.	X	—
CORROSION SALT MIST	EXPOSED IN 5 % SALT WATER SPRAY FOR 48 h. (MIL-STD-1344 1001 B)		NO HEAVY CORROSION.	X	—
OIL RESISTING	DROP CUTTING OIL FOR 48 HOURS AT THE RATE OF 0.5 ℓ EVERY HOUR. (JIS B 6015)		NO OIL SEEPAGE INSIDE CONNECTOR.	X	—
	COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE
①					
REMARK			APPROVED	SU. OBARA	11. 01. 06
NOTE(1) 13 A RATED CURRENT IS THE MAXIMUM CURRENT FLOW PER CONTACT. BUT THE CURRENT CAPACITY OF WHOLE IS CONNECTOR 24.5 A MAX.			CHECKED	HY. KISHI	11. 01. 06
(2) R/T: ROOM TEMPERATURE			DESIGNED	WR. AJIRO	11. 01. 06
Unless otherwise specified, refer to JIS C 5402.			DRAWN	WR. AJIRO	11. 01. 06
Note QT:Qualification Test AT:Assurance Test X:Applicable Test			DRAWING NO.		ELC4-041890-73
HRS	SPECIFICATION SHEET		PART NO.	H/MS3102A10SL-4P (73)	
	HIROSE ELECTRIC CO., LTD.		CODE NO.	CL120-0111-4-73	△ 1/1

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