

Aug.1.2018 Copyright 2018 HIROSE ELECTRIC CO., LTD. All Rights Reserved.
 In case that the application demands a high level of reliability, such as automotive,
 please contact a company representative for further information.

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	23 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)			3 mΩ MAX.	X	X
INSULATION RESISTANCE	500 V DC. (MIL-STD-1344 3003)			5000 MΩ MIN.	X	X
VOLTAGE PROOF	2000 V AC. FOR 1 min. (MIL-STD-1344 3001)			NO FLASHOVER OR BREAKDOWN.	X	X
MECHANICAL CHARACTERISTICS						
CONTACT INSERTION AND WITHDRAWAL FORCES	φ2.362 ^{+0.003} ₀ BY STEEL GAUGE			INSERTION AND WITHDRAWAL FORCES : 0.9 N MIN.	X	-
CONNECTOR INSERTION AND WITHDRAWAL FORCES	MEASURED BY APPLICABLE CONNECTOR.			INSERTION AND WITHDRAWAL FORCES LOCKING DEVICE WITH UNLOCK : 50 N MAX. LOCKING DEVICE WITH LOCK : - N MAX.	X	-
MECHANICAL OPERATION	500 TIMES INSERTIONS AND EXTRACTIONS. (MIL-C-5015 4, 6, 12, 2)			CONTACT RESISTANCE: 4.5 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	IN OPPOSITE DIRECTIONS OF EACH 3 DEMENSION AXIS FOR 3 TIMES AT 490 m/s ² DURATIONS OF PULSE 11 ms. (MIL-STD-1344 2004 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 %, 336 h. (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 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. (JIS B 6015)			NO WATER PENETRATION INSIDE CONNECTOR.	X	-
AIRTIGHTNESS ⁽³⁾	APPLY AIR PRESSURE 40 kPa FOR 30 SEC 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 B)			NO HEAVY CORROSION RUIN THE FUNCTION.	X	-
OIL RESISTING	DROP CUTTING OIL FOR 48 HOURS AT THE RATE OF 0.5ℓ /h. (JIS B 6015)			NO OIL SEEPAGE INSIDE CONNECTOR.	X	-
RESISTANCE TO SOLDERING HEAT	SOLDER TEMPERATURE, +380±10°C ,FOR IMMERSION DURATION, 10±1 s.			NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS.	X	-
SOLDERABILITY	SOLDERED AT SOLDER TEMPERATURE, +350±10°C FOR IMMERSION DURATION, 10±1 s.			WETTING ON SOLDER SURFACE. NO SOLDER CLUSTER.	X	-
	COUNT	DESCRIPTION OF REVISIONS		DESIGNED	CHECKED	DATE
Q						
REMARK				APPROVED	EJ. KUNII	13. 07. 29
NOTES(1) 23 A RATED CURRENT IS THE MAXIMUM CURRENT FLOW PER CONTACT. BUT THE CURRENT CAPACITY OF WHOLE IS CONNECTOR 76.2 A MAX. (2) R/T : ROOM TEMPERATURE. (3) SEALING AND AIRTIGHTNESS SHALL BE TESTED BY APPLICABLE CONNECTOR. Unless otherwise specified, refer to JIS C 5402.				CHECKED	HY. KISHI	13. 07. 29
				DESIGNED	HK. NAMA I	13. 07. 29
				DRAWN	HK. NAMA I	13. 07. 29
Note QT:Qualification Test AT:Assurance Test X:Applicable Test				DRAWING NO.		ELC4-048960-73
HRS	SPECIFICATION SHEET			PART NO.	H/MS3106A18-10S (73)	
	HIROSE ELECTRIC CO., LTD.			CODE NO.	CL120-0605-4-73	△ 1/1