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 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	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		2000 V AC. FOR 1 min. (MIL-STD-1344 3001)		NO FLASHOVER OR BREAKDOWN.	X	X
MECHANICAL CHARACTERISTICS						
CONNECTOR INSERTION AND WITHDRAWAL FORCES		MEASURED BY APPLICABLE CONNECTOR. (WITHOUT LOCK MECHANISM)		INSERTION AND WITHDRAWAL FORCES : 110 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.	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.		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°C±10°C FOR SOLDERING DURATION, 10±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	-
	COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE	
Q						
REMARK				APPROVED	HY. KOBAYASHI	18.06.08
NOTES (1) 13 A RATED CURRENT IS THE MAXIMUM CURRENT FLOW PER CONTACT. BUT THE CURRENT CAPACITY OF WHOLE IS CONNECTOR 44.2 A MAX. . (2) R/T : ROOM TEMPERATURE (3) SEALING AND AIRTIGHTNESS SHALL BE TESTED BY APPLICABLE CONNECTOR.				CHECKED	HY. KOBAYASHI	18.06.08
				DESIGNED	HY. KISHI	18.06.08
				DRAWN	HY. KISHI	18.06.08
				Unless otherwise specified, refer to IEC 60512 (JIS C 5402).		
Note QT:Qualification Test AT:Assurance Test X:Applicable Test			DRAWING NO.	ELC-040591-74-00		
HRS	SPECIFICATION SHEET		PART NO.	H/MS3102A20-29PW (74)		
	HIROSE ELECTRIC CO., LTD.		CODE NO.	CL120-0103-6-74		1/1