APPLICABLE STANDARD		MIL-C-5015 Compliant		
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	Examined visually and with a measuring instrument.	According to the drawing.	X	X
Marking	Confirmed visually.		X	X
ELECTRICAL CHARACTERISTICS				
Contact Resistance	Measured at DC 1 A. (MIL-C-2316)	5 mΩ MAX.	X	X
Insulation Resistance	Measured at 500 V DC. (MIL-STD-1344 3003)	5000 MΩ MIN.	X	X
Voltage Proof	2000 V AC applied for 1 min. (MIL-STD-1344 3001)	No flashover or breakdown.	X	X
MECHANICAL CHARACTERISTICS				
Contact Insertion and Withdrawal Forces	Measured with a $\phi 1.562\,^{+0.003}_{0}$ steel gauge.	Insertion and Withdrawal Forces : 0.6N MIN.	X	–
Mating and Unmating Forces	Measured with an applicable connector with lock disengaged.	Mating and Unmating Forces: 110N MAX.	X	–
Mechanical Operation	Mated and unmated 500 times.(MIL-C-5015 4,6,12,2)	Contact Resistance: 7.5 mΩ MAX.	X	–
Vibration	Frequency: 10 Hz to 500 Hz Single amplitude: 0.75 mm Acceleration: 98 m/s^2 Performed over 3 cycles of 3 hours in each of 3 mutually perpendicular directions. (MIL-STD-1344 2005,Condition II)	1) No electrical discontinuity of more than 10 μs. 2) No damage, cracks or looseness of parts.	X	–
Shock	Acceleration: 490 m/s^2 Half sine wave pulses of 11 ms. Performed 3 times in each of 3 mutually perpendicular directions. (MIL-STD-1344 2004, Condition E)	1) No electrical discontinuity of more than 10 μs. 2) No damage, cracks or looseness of parts.	X	–
ENVIRONMENTAL CHARACTERISTICS				
Damp Heat (Steady State)	Exposed at 71℃, a humidity of 95% for 336h. (MIL-C-5015 4,6,10)	1) Insulation Resistance: 50 MΩ MIN. (At high humidity) 2) Insulation Resistance: 500 MΩ MIN. (When dry) 3) No damage, cracks or looseness of parts.	X	–
Rapid Change of Temperature	Temperature -55→ R/T(2) → +125 → R/T ℃ Time 30 → 10-15 → 30 → 10-15 min For 5 cycles. (MIL-C-5015 4,6,4)	1) Insulation Resistance: 5000 MΩ MIN. 2) No damage, cracks or looseness of parts.	X	–
Sealing(3)	Subjected in water at a depth of 1.8 m for 48h.	No water penetration into the connector.	X	–
Airtightness(3)	40 kPa of air pressure applied to the inside of the connector for 30 sec.	No air bubbles from connector mating surface.	X	–

	COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE
0△					

Notes
(1) 46A rated current is the maximum current per contact but the current capacity of the whole connector is 44.2 A MAX.
(2) R/T : Room Temperature
(3) Sealing, airtightness and oil resitance are tested in a mated state with an applicable connector.
Unless otherwise specified, refer to IEC 60512(JIS C 5402).

APPROVED	HY.KOBAYASHI	17.05.29
CHECKED	HY.KOBAYASHI	17.05.29
DESIGNED	HY.KISHI	17.05.29
DRAWN	HY.KISHI	17.05.29

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

DRAWING NO. ELC-036138-73-00

HRS

SPECIFICATION SHEET

HIROSE ELECTRIC CO., LTD.

PART NO. H/MS3106A20-29S(73)

CODE NO. CL120-0611-7-73 △0 1/2

FORM HD0011-2-1

SPECIFICATIONS

ITEM	TEST METHOD	REQUIREMENTS	QT	AT
ENVIRONMENTAL CHARACTERISTICS				
Corrosion	Subjected to 5% salt spray for 48h. (MIL-STD-1344 1001 B)	No heavy corrosion which impairs functionality.	X	–
Oil Resistance(3)	Drop cutting oil for 48 hours at the rate of 0.5 liter per hour. (JIS B 6015)	No damage to the rubber parts and no traces of oil from the mating side to the wiring side.	X	–
Resistance to Soldering Heat.	Soldering iron is placed to the solder pot for 10±1 s (Iron Tip Temperature: 350±10℃).	No deformation or excessive looseness of terminals.	X	–
Solderability	Soldering iron is placed to the solder pot for 5±1 s. (Iron Tip Temperature: 350±10℃).	The solder shall have wetted the soldering surface and there shall be no small lumps of solder.	X	–

	COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE
0△					

REMARK

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

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HRS	SPECIFICATION SHEET	PART NO.	H/MS3106A20-29S(73)	
	HIROSE ELECTRIC CO., LTD.	CODE NO.	CL120-0611-7-73 △1	2/2

FORM HD0011-2-1