APPLICABLE STANDARD		VDE 0627 , TÜV approved(R9351324),UL approved(E52653)		
RATING	OPERATING TEMPERATURE RANGE	-40 °C TO +125 °C	STORAGE TEMPERATURE RANGE	-10 °C TO +60 °C
	VOLTAGE	AC 250 V , DC 250 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
	BETWEEN D-CONTACT TO SHELL SHALL BE MEASURED AT DC 1A	100 mΩ MAX.	X	X
INSULATION RESISTANCE	500 V DC. (MIL-STD-1344 3003)	5000 MΩ MIN.	X	X
TEMPERATURE RIZE	TEMPERATURE CONSTANCY SHALL BE WITHIN 8 HOURS WHEN APPLYING CURRENT OF 23 A. (DIN VDE 0627 6, 27)	TEMPERATURE RISE SHALL BE 1K/h MAX.	X	—
VOLTAGE PROOF	2250 V AC. FOR 1 min. (MIL-STD-1344 3001)	NO FLASHOVER OR BREAKDOWN.	X	X
MECHANICAL CHARACTERISTICS				
CONTACT INSERTION AND WITHDRAWAL FORCES	$\phi 2.362^{+0.003}_{0}$ BY STEEL GAUGE	INSERTION AND WITHDRAWAL FORCES : 0.84 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	—
CONTACT RETENTION FORCE	APPLYING 20 N PULL FORCE FROM TERMINATION SIDE. (DIN41640)	NO CONTACT DISPLACEMENT.	X	—
IMPACT INTENSITY	DROP FROM THE HEIGHT OF 750 mm FOR 8 TIMES WITH CABLE AND CABLE CLAMP. (DIN 41640)	NO DEFACE OR MECHANICAL DAMAGE.	X	—
MECHANICAL OPERATION	500 TIMES INSERTIONS AND EXTRACTIONS. (MIL-C-5015 4, 6, 12, 2)	CONTACT RESISTANCE: 4.5 mΩ MAX. D-CONTACT-SHELL RESISTANCE: 100 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 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(1) → +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 m FOR 0.5 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	—

	COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE
A					

REMARK

NOTES (1) R/T : ROOM TEMPERATURE

(2) 23 A RATED CURRENT IS THE MAXIMUM CURRENT FLOW PER CONTACT. BUT THE CURRENT CAPACITY OF WHOLE IS CONNECTOR 69 A MAX.

(3) SEALING AND AIRTIGHTNESS SHALL BE TESTED BY APPLICABLE CONNECTOR.

Unless otherwise specified, refer to JIS C 5402.

APPROVED	SU. OBARA	10.11.08
CHECKED	HY. KISHI	10.11.08
DESIGNED	WR. AJIRO	10.11.08
DRAWN	WR. AJIRO	10.11.08

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

DRAWING NO. ELC4-048706-76

HRS

SPECIFICATION SHEET

HIROSE ELECTRIC CO., LTD.

PART NO. H/MS3106A18-10S-D-T(76)

CODE NO. CL120-0323-2-76 A 1/2

FORM HD0011-2-1

SPECIFICATIONS

ITEM	TEST METHOD	REQUIREMENTS	QT	AT
ENVIRONMENTAL CHARACTERISTICS				
CORROSION SALT MIST	EXPOSED IN 5 % SALT WATER SPRAY FOR 48 h. (MIL-STD-1344 1001 B)	NO HEAVY CORROSIN RUIN THE FUNCTION.	X	–
RESISTANCE TO DUST(3)	DUST CIRCULATION FOR 2 h. (IEC 529, 7, 6)	NO DUST SEEPAGE INSIDE CONNECTOR.	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℃ , FOR IMMERSION DURATION, 10±1 s.	NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS.	X	–
SOLDERABILITY	SOLDERED AT SOLDER TEMPERATURE, +350±10℃ FOR IMMERSION DURATION, 10±1 s.	WETTING ON SOLDER SURFACE. NO SOLDER CLUSTER.	X	–

	COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE
0△					

REMARK

Unless otherwise specified, refer to JIS C 5402.

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SPECIFICATION SHEET

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FORM HD0011-2-1