APPLICABLE STANDARD		VDE 0627, MIL-C-5015 CONFORMITY, TUV approved(R9351324)		
RATING	OPERATING TEMPERATURE RANGE	-40 °C TO +125 °C	STORAGE TEMPERATURE RANGE	-10 °C TO +60 °C
	VOLTAGE	AC 250 V, DC 250 V (POLUTION DEGREE 3, OVER VOLTAGE CATEGORY Ⅲ)		
		AC 500 V, DC 500 V (POLUTION DEGREE 2, OVER VOLTAGE CATEGORY Ⅱ)		
	CURRENT	23 A(1) (WIRE SIZE : 3.5 mm²)	PROTECTION DEGREE	IP67
		17 A (WIRE SIZE : 2 mm²)	APPLICABLE CABLE	φ12.0 TO 14.3 mm

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 RISE	APPLY CURRENT OF 23 A TO CONTACTS. (DIN VDE 0627 6,27)	TEMPERATURE CONSTANCY SHALL BE WITHIN 8 HOURS. TEMPERATURE RISE SHALL BE 1 K/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 UNLOOK : 50 N MAX.	X	—
CONTACT RETENTION FORCE	APPLY 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.	X	—
		D-CONTACT-SHELL RESISTANCE: 100 mΩ MAX.	X	—
VIBRATION	FREQUENCY: 10 TO 500 Hz, SINGLE AMPLITUDE 0.75 mm, 98 m/s² AT 3 h, 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/s² 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℃, 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 ℃ 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	—

	COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE
0△					

REMARK

NOTE (1) 23A RATED CURRENT IS THE MAXIMUM CURRENT PER CONTACT.
BUT THE CURRENT CAPACITY OF WHOLE IS CONNECTOR 69 A MAX.
(2) R/T : ROOM TEMPERATURE

Unless otherwise specified, refer to JIS C 5402.

APPROVED	SU. OBARA	10.11.08
CHECKED	HY. KISHI	10.11.08
DESIGNED	YS. SAKODA	10.11.08
DRAWN	YS. SAKODA	10.11.08

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

DRAWING NO. ELC4-113361-73

HRS

SPECIFICATION SHEET

HIROSE ELECTRIC CO., LTD.

PART NO. H/MS08A18-10S-DT10D(73)

CODE NO. CL120-0476-3-73 △0 1/2

FORM HD0011-2-1

SPECIFICATIONS

ITEM	TEST METHOD	REQUIREMENTS	QT	AT
ENVIRONMENTAL CHARACTERISTICS				
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	–
CORROSION, SULPHUR DIOXIDE(3)	EXPOSED IN SO_2 : 670ppm 40 ℃ FOR 8 h. EXPOSED IN SO_2 : 670 ppm 18 TO 28 ℃ FOR 16 h. (DIN50018)	NO HEAVY CORROSION RUIN THE FUNCTION.	X	–
OIL RESISTING(3)	DROP CUTTING OIL FOR 48 HOURS AT THE RATE OF 0.5L / h. (JIS B 6015)	NO OIL SEEPAGE INSIDE CONNECTOR.	X	–
RESISTANCE TO DUST(3)	DUST CIRCULATION FOR 2 h. (IEC 529,7,6)	NO DUST SEEPAGE INSIDE CONNECTOR.	X	–
RESISTANCE TO SOLDERING HEAT.	SOLDERED TEMPERATURE, +380±10℃, FOR SOLDERING DURATION, 10±1 s. (IEC 68-2-20)	NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS.	X	–
SOLDERABILITY	SOLDERED AT SOLDER TEMPERATURE, +350℃±10℃ FOR SOLDERING DURATION, 10±1 s. (IEC 68-2-20)	WETTING ON SOLDER SURFACE. NO SOLDER CLUSTER.	X	–
CORROSION SALT MIST	EXPOSED IN 5 % SALT WATER SPRAY FOR 48 h. (MIL-STD-1344 1001, CONDITION B)	NO HEAVY CORROSION.	X	–

	COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE
0△					

REMARK

(3) 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	YS. SAKODA	10.11.08
DRAWN	YS. SAKODA	10.11.08

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

DRAWING NO. ELC4-113361-73

HRS

SPECIFICATION SHEET

HIROSE ELECTRIC CO., LTD.

PART NO. H/MS08A18-10S-DT10D(73)

CODE NO. CL120-0476-3-73 △1 2/2

FORM HD0011-2-1