APPLICABLE STANDARD					
RATING	OPERATING TEMPERATURE RANGE	-35°C TO +85°C (NOTE 1)	STORAGE TEMPERATURE RANGE		-10°C TO +60°C (NOTE 3)
	OPERATING HUMIDITY RANGE	20% TO 80% (NOTE 2)	STORAGE HUMIDITY RANGE		40% TO 70% (NOTE 3)
	APPLICABLE CONNECTOR	DF57H-4S-1.2C(##) DF57AH-4S-1.2C(##)	UL・C-UL RATING	OPERATING TEMPERATURE RANGE	-35°C TO +75°C (NOTE 1)
	APPLICABLE CONTACT	DF57-****SCF(##)		VOLTAGE	29V AC/DC
	VOLTAGE	50V AC/DC		CURRENT	AWG 26 TO 28 : 1.5A/PIN AWG 30 TO 34 : 1.0A/PIN
	CURRENT	AWG 26 TO 28 : 1.5A/PIN AWG 30 : 1.0A/PIN AWG 32 : 0.8A/PIN AWG 34 : 0.5A/PIN			

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 MILLIVOLT LEVEL METHOD	20mV MAX, 1mA (DC or 1000 Hz).	10 mΩ MAX.	X	—
INSULATION RESISTANCE	100V DC.	100 MΩ MIN.	X	—
VOLTAGE PROOF	500V AC FOR 1 min.	NO FLASHOVER OR BREAKDOWN.	X	—
MECHANICAL CHARACTERISTICS				
MECHANICAL OPERATION	30 TIMES INSERTION AND EXTRACTION.	1) CONTACT RESISTANCE: 20 mΩ MAX. 2) NO DAMAGE, CRACK OR LOOSENESS OF PARTS.	X	—
INSERTION AND EXTRACTION FORCES	IT TAKES OUT AND INSERTS WITH A CONFORMITY CONNECTOR.	1) INSERTION FORCE : 24.0 N MAX. 2) EXTRACTION FORCE: 1.2 N MIN.	X	—
VIBRATION	FREQUENCY 10 TO 55 Hz, SINGLE AMPLITUDE 0.75 mm, AT 10 CYCLES FOR 3 DIRECTION.	1) NO ELECTRICAL DISCONTINUITY OF 1 μs. 2) NO DAMAGE, CRACK OR LOOSENESS OF PARTS.	X	—
SHOCK	490 m/s^2 DURATION OF PULSE 11 ms AT 3 TIMES FOR 3 DIRECTIONS.	1) NO ELECTRICAL DISCONTINUITY OF 1 μs. 2) NO DAMAGE, CRACK OR LOOSENESS OF PARTS.	X	—
ENVIRONMENTAL CHARACTERISTICS				
DAMP HEAT (STEADY STATE)	EXPOSED AT 40 ± 2 °C , 90 TO 95 %, 96 h. (AFTER LEAVING THE ROOM TEMPERATURE FOR 1 TO 2 h.)	1) CONTACT RESISTANCE : 20 mΩ MAX. 2) INSULATION RESISTANCE: 100 MΩ MIN. 3) NO DAMAGE, CRACK OR LOOSENESS OF PARTS.	X	—
RAPID CHANGE OF TEMPERATURE	TEMPERATURE -55 °C→ +85 °C TIME 30 min→ 30 min UNDER 5 CYCLES. (THE TRANSFERRING TIME OF THE TANK IS 2 TO 3 min) (AFTER LEAVING THE ROOM TEMPERATURE FOR 1 TO 2 h.)	1) CONTACT RESISTANCE : 20 mΩ MAX. 2) INSULATION RESISTANCE: 100 MΩ MIN. 3) NO DAMAGE, CRACK OR LOOSENESS OF PARTS.	X	—
RESISTANCE TO SOLDERING HEAT	1) REFLOW SOLDERING ≪REFLOW TIME≫ NUMBER OF REFLOW CYCLES: 2 CYCLES MAX. DURATION ABOVE 220 °C, 60 sec. MAX. PEAK TEMPERATURE: 250 °C 10 sec. MAX. ≪PRE-HEAT TIME≫ PRE-HEAT TEMPERATURE (MIN): 150 °C PRE-HEAT TEMPERATURE (MAX): 180 °C PRE-HEAT TIME (MIN): 90 sec. PRE-HEAT TIME (MAX): 120 sec. 2) MANUAL SOLDERING SOLDERING IRON TEMPERATURE: 350±10 °C, SOLDERING TIME: 3 sec. NO STRENGTH ON CONTACT.	NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS.	X	—
SOLDERABILITY	SOLDERING TEMPERATURE: 245 °C DURATION OF IMMERSION: SOLDERING, FOR 5 sec.	NEW UNIFORM COATING OF SOLDER SHALL COVER MINIMUM OF 95 % OF THE SURFACE BEING IMMERSED.	X	—

REMARKS
NOTE 1: INCLUDE THE TEMPERATURE RISING BY CURRENT.
NOTE 2: NO CONDENSING.
NOTE 3: APPLY TO UNUSED PRODUCT ON PACKAGED CONDITION.

	COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE
△0					

APPROVED	SJ. OKAMURA	20210823
CHECKED	SZ. ONO	20210823
DESIGNED	HK. HAYASHI	20210823
DRAWN	TS. HONJO	20210820

Unless otherwise specified, refer to IEC 60512.

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

DRAWING NO. ELC-343906-23-04

HRS	SPECIFICATION SHEET	PART NO.	DF57H-4P-1.2V(23)	
	HIROSE ELECTRIC CO., LTD.	CODE NO.	CL0666-0106-2-23	△0 1/1

FORM HD0011-2-1