



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-****SCFA (##)		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				
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 <sup>2</sup> 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			
△								
Unless otherwise specified, refer to IEC 60512.			APPROVED	SJ. OKAMURA	20210823			
			CHECKED	SZ. ONO	20210823			
			DESIGNED	HK. HAYASHI	20210823			
			DRAWN	TS. HONJO	20210820			
Note QT:Qualification Test AT:Assurance Test X:Applicable Test			DRAWING NO.		ELC-343906-51-03			
	SPECIFICATION SHEET		PART NO.	DF57H-4P-1. 2V (51)				
	HIROSE ELECTRIC CO., LTD.		CODE NO.	CL0666-0106-2-51	 1/1			