

APPLICABLE STANDARD							
RATING	OPERATING TEMPERATURE RANGE	-35 °C TO +85°C (NOTE1)	STORAGE TEMPERATURE RANGE	-10 °C TO +60°C (NOTE3)			
	OPERATING HUMIDITY RANGE	20% TO 80% (NOTE2)	STORAGE HUMIDITY RANGE	40% TO 70% (NOTE3)			
	APPLICABLE CONNECTOR	DF57H-4S-1.2C(##) DF57AH-4S-1.2C(##)	UL C-UL RATING 	OPERATING TEMPERATURE RANGE	-35 °C TO +75°C (NOTE1)		
	APPLICABLE CONTACT	DF57-****SCF(##)		VOLTAGE	29 V AC/DC		
	VOLTAGE	50 V AC/DC		CURRENT	26 TO 28 AWG : 1.5A/PIN 30 TO 34 AWG : 1.0A/PIN		
	CURRENT	26 TO 28 AWG : 1.5A/PIN 30 AWG : 1.0A/PIN 32 AWG : 0.8A/PIN 34 AWG : 0.5A/PIN					
SPECIFICATIONS							
ITEM		TEST METHOD		REQUIREMENTS			
CONSTRUCTION							
GENERAL EXAMINATION		VISUALLY AND BY MEASURING INSTRUMENT.		ACCORDING TO DRAWING.			
MARKING		CONFIRMED VISUALLY.					
ELECTRIC CHARACTERISTICS							
CONTACT RESISTANCE MILLIVOLT LEVEL METHOD		20mV MAX, 1mA (DC or 1000Hz).		10 mΩ MAX.	X —		
INSULATION RESISTANCE		100 V DC.		100 MΩ MIN.	X —		
VOLTAGE PROOF		500 V 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 —		
CONTACT INSERTION AND EXTRACTION FORCES		IT TAKES OUT AND INSERTS WITH A CONFORMITY CONNECTOR.		1)INSERTION FORCE : 24.0N MAX. 2)EXTRACTION FORCE: 1.2N 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 μ s. 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.			X —		
ENVIRONMENTAL CHARACTERISTICS							
DAMP HEAT (STEADY STATE)		EXPOSED AT 40 ± 2°C , 90 TO 95 %, 96 h. (AFTER LEAVING THE ROOM TEMPERATURE FOR 1-2h.)		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 30min→ 30min UNDER 5 CYCLES. (THE TRANSFERRING TIME OF THE TANK IS 2-3 min) (AFTER LEAVING THE ROOM TEMPERATURE FOR 1-2h.)		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 : 3sec. 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 —		
NOTE1:INCLUDE THE TEMPERATURE RISING BY CURRENT. NOTE2:NO CONDENSING. NOTE3:APPLY TO THE CONDITION OF LONG TERM STORAGE FOR UNUSED PRODUCTS BEFORE MOUNTED ON PCB. AFTER MOUNTED ON PCB, OPERATION TEMPERATURE AND HUMIDITY RANGE IS APPLIED FOR INTERIM STORAGE DURING TRANSPORTATION.							
	COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE		
	1	DIS-H-00005763	HK. HAYASHI	SZ. ONO	20200220		
REMARKS Unless otherwise specified, refer to IEC 60512.			APPROVED	KI. AKIYAMA	20120319		
			CHECKED	HK. UMEHARA	20120319		
			DESIGNED	TS. KUMAZAWA	20120319		
			DRAWN	TS. KUMAZAWA	20120319		
Note QT:Qualification Test AT:Assurance Test X:Applicable Test			DRAWING NO.		ELC-343906-21-01		
	SPECIFICATION SHEET		PART NO.	DF57H-4P-1. 2V (21)			
	HIROSE ELECTRIC CO., LTD.		CODE NO.	CL666-0106-2-21	 1/1		