




APPLICABLE STANDARD					
RATING	OPERATING TEMPERATURE RANGE	-35°C TO +85°C (NOTES 1)	STORAGE TEMPERATURE RANGE	-10°C TO +60°C	
	VOLTAGE	30V AC	APPLICABLE CONNECTOR	DF38-32P-0.3SD	
	CURRENT	AWG42:0.15A AWG44:0.10A AWG46:0.10A			
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	100m A (DC OR 1000 Hz).	CONTACT:80mΩ MAX. SHIELDING:80mΩ MAX.	X	-	
INSULATION RESISTANCE	100V DC.	50MΩ MIN.	X	-	
VOLTAGE PROOF	100V AC FOR 1 min.	NO FLASHOVER OR BREAKDOWN.	X	-	
MECHANICAL CHARACTERISTICS					
MECHANICAL OPERATION	30TIMES INSERTIONS AND EXTRACTIONS.	① CONTACT RESISTANCE: NO VARIATION OF 50 mΩ OR MORE FROM INITIAL VALUE. SHIELDING RESISTANCE: NO VARIATION OF 50 mΩ OR MORE FROM INITIAL VALUE. ② NO DAMAGE, CRACK OR LOOSENESS OF PARTS.	X	-	
VIBRATION	FREQUENCY 10 TO 55 Hz, SINGLE AMPLITUDE 0.75 mm, 3 DIRECTIONS × 10 CYCLE.	① NO ELECTRICAL DISCONTINUITY OF 1 μs.	X	-	
SHOCK	490 m/s ² DURATION OF PULSE 11 ms AT 3 TIMES FOR 3 DIRECTIONS.	② NO DAMAGE, CRACK OR LOOSENESS OF PARTS.	X	-	
ENVIRONMENTAL CHARACTERISTICS					
RAPID CHANGE OF TEMPERATURE	TEMPERATURE -55 → +85 °C TIME 30 → 30 min UNDER 5 CYCLES. (THE TRANSFERRING TIME OF THE CHAMBER IS 2-3 MINUTE.)	① CONTACT RESISTANCE: NO VARIATION OF 50 mΩ OR MORE FROM INITIAL VALUE. SHIELDING RESISTANCE: NO VARIATION OF 50 mΩ OR MORE FROM INITIAL VALUE.	X	-	
DAMP HEAT (STEADY STATE)	EXPOSED AT 40 ± 2 °C, 90 TO 95 %, 96 h.	② INSULATION RESISTANCE: 25 MΩ MIN. ③ NO DAMAGE, CRACK OR LOOSENESS OF PARTS.	X	-	
SALT MIST	EXPOSED IN 5 % SALT WATER SPRAY 48 h.	NO DEFECT SUCH AS CORROSION WHICH IMPAIRS THE FUNCTION OF CONNECTOR.	X	-	
SULFUR DIOXIDE GAS	EXPOSED IN 25ppm , 25°C, RH75%, 96h.		X	-	
RESISTANCE TO SOLDERING HEAT	① REFLOW TEMPERATURE: PEAK 250°C MAX, 240°C MIN :20 sec MAX 220°C MIN :60 sec MAX ② MANUAL SOLDERING TEMPERATURE: 350°C, 3sec MAX.	NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS.	X	-	
SOLDERABILITY	SOLDERED AT SOLDER TEMPERATURE, 230°C FOR INSERTION DURATION, 3 sec.	SOLDER SHALL COVER A MINIMUM OF 95 % OF THE SURFACE BEING IMMersed.	X	-	
	COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE
					
REMARKS			APPROVED	TS. SAKATA	08.06.18
NOTE1: INCLUDE THE TEMPERATURE RISING BY CURRENT			CHECKED	HK. UMEHARA	08.06.18
Unless otherwise specified, refer to JIS C 5402, IEC60512.			DESIGNED	HY. SHIOZAWA	08.06.18
			DRAWN	SI. ISHII	08.06.18
Note QT:Qualification Test AT:Assurance Test X:Applicable Test		DRAWING NO.	ELG4-319523-01		
	SPECIFICATION SHEET		PART NO.	DF38A-32S-0.3V (51)	
	HIROSE ELECTRIC CO., LTD.		CODE NO.	CL662-4028-7-51	 1/1