




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In case of consideration for using Automotive equipment / device which demand high reliability, kindly contact our sales window correspondents.

APPLICABLE STANDARD					
RATING	OPERATING TEMPERATURE RANGE	-55 °C TO +85 °C	STORAGE TEMPERATURE RANGE	-10 °C TO +60 °C	
	VOLTAGE	AC 100 V	OPERATING HUMIDITY RANGE	RELATIVE HUMIDITY: 95% MAX (NO DEW CONDENSATION IS PERMITTED)	
	CURRENT	SIGNAL: 0.5A			
<b>SPECIFICATIONS</b>					
ITEM	TEST METHOD		REQUIREMENTS	QT	AT
<b>CONSTRUCTION</b>					
GENERAL EXAMINATION	VISUAL AND WITH MEASURING INSTRUMENT		ACCORDING TO A DRAWING	X	X
MARKING	CONFIRM VISUALLY			X	X
<b>ELECTRIC CHARACTERISTICS</b>					
CONTACT RESISTANCE [EIA-364-23]	100 mA	50 mΩ MAX (*1) MATED WITH ER8-120P-0.8SV-*H(**) ER8-120P-0.8SH(**)		X	—
INSULATION RESISTANCE [EIA-364-21]	100 V DC	1000 MΩ MIN		X	—
VOLTAGE PROOF [EIA-364-20]	300 V AC FOR 1 min	NO FLASHOVER OR BREAKDOWN		X	—
<b>MECHANICAL CHARACTERISTICS</b>					
MECHANICAL OPERATION [EIA-364-09]	100 TIMES INSERTION AND EXTRACTION		1) CONTACT RESISTANCE CHANGE: 15 mΩ OR LESS 2) NO FLASHOVER OR BREAKDOWN 3) NO DAMAGE, CRACK OR LOOSENESS OF PARTS	X	—
RANDOM VIBRATION [EIA-364-28]	FREQUENCY: 20 TO 500 Hz POWER SPECTRAL DENSITY: 0.02 G <sup>2</sup> /Hz FOR 90 min IN THREE DIRECTIONS		1) NO ELECTRICAL DISCONTINUITY OF 1 μs OR MORE 2) NO DAMAGE, CRACK OR LOOSENESS OF PARTS	X	—
SHOCK [EIA-364-27]	980 m/s <sup>2</sup> , DURATION OF PULSE: 6 ms 18TIMES TOTAL, 3 EACH DIRECTION, 3 AXIS			X	—
<b>ENVIRONMENTAL CHARACTERISTICS</b>					
THERMAL SHOCK [EIA-364-32]	TEMPERATURE(°C): -55 → 20 ~ 35 → 85 → 20 ~ 35 TIME(min): 30 → 2 ~ 3 → 30 → 2 ~ 3 UNDER 25 CYCLES		1) CONTACT RESISTANCE CHANGE: 15 mΩ OR LESS 2) NO DAMAGE, CRACK OR LOOSENESS OF PARTS	X	—
CYCLIC TEMPERATURE AND HUMIDITY [EIA-364-31]	@ 25 °C, 90-95% RH: 120 min DWELL TIME ↑ ↓ 120min RAMP TIME @ 65 °C, 90-95% RH: 120 min DWELL TIME UNDER 12CYCLES		3) NO FLASHOVER OR BREAKDOWN 4) INSURATION RESISTANCE:1000MΩ MIN	X	—
DRY HEAT [EIA-364-17]	EXPOSED AT 105 °C, 250 HOURS		1) CONTACT RESISTANCE CHANGE: 15 mΩ OR LESS	X	—
GAS TIGHT [EIA-364-36]	Nitric acid vapor 60min			X	—
Resistance to Soldering Heat [IPC/JEDEC J-STD-020]	Reflow soldering : Peak TMP : 260°C MAX Reflow TMP : 217°C MIN for 40-150sec		No deformation of case of excessive looseness of the terminal.	X	—
	COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE
REMARK (*1) THE VALUE OF CONTACT RESISTANCE INCLUDES THE BULK RESISTANCE.			APPROVED	TY. TAKADA	20230808
			CHECKED	TY. TAKADA	20230807
			DESIGNED	KM. KUBOTA	20230807
			DRAWN	KM. KUBOTA	20230807
NOTE -- QT: QUALIFICATION TEST; AT: ASSURANCE TEST; X: APPLICATION TEST			DRAWING NO.	ELC-359657-00-01	
	SPECIFICATION SHEET		PART NO.	ER8-120S-0. 8SH	
	HIROSE ELECTRIC (U.S.A.), INC.		CODE NO.	CL0625-1001-4-00	 1/1