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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		

SPECIFICATIONS

ITEM	TEST METHOD	REQUIREMENTS	QT	AT
CONSTRUCTION				
GENERAL EXAMINATION	VISUAL AND WITH MEASURING INSTRUMENT	ACCORDING TO A DRAWING	X	X
MARKING	CONFIRM VISUALLY		X	X
ELECTRIC CHARACTERISTICS				
CONTACT RESISTANCE [EIA-364-23]	100 mA	50 mΩ MAX (*1) MATED WITH ER8-20S-0.8SV-*H(**)	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	—
MECHANICAL CHARACTERISTICS				
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^2/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^2, DURATION OF PULSE: 6 ms 18TIMES TOTAL, 3 EACH DIRECTION, 3 AXIS		X	—
ENVIRONMENTAL CHARACTERISTICS				
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 3) NO FLASHOVER OR BREAKDOWN 4) INSURATION RESISTANCE:1000MΩMIN	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		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	—

△	COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE
0					

REMARK
(*1) THE VALUE OF CONTACT RESISTANCE INCLUDES THE BULK RESISTANCE.

UNLESS OTHERWISE SPECIFIED, REFER TO IEC 60512.

APPROVED	TS. OSHIDA	20250317
CHECKED	TS. OSHIDA	20250317
DESIGNED	KO. SUSUKIDA	20250317
DRAWN	KO. SUSUKIDA	20250317

NOTE -- QT: QUALIFICATION TEST; AT: ASSURANCE TEST; X: APPLICATION TEST

DRAWING NO. ELC-366013-10-00

HRS	SPECIFICATION SHEET	PART NO.	ER8-20P-0.8SV-2H(10)	
	HIROSE ELECTRIC (U.S.A.), INC.	CODE NO.	CL0625-0011-0-10	△0 1/1

FORM HD0011-2-1