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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 50V	OPERATING HUMIDITY RANGE	RELATIVE HUMIDITY:90% 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]	100mA	80mΩ MAX (*1)	X	—
INSULATION RESISTANCE [EIA-364-21]	100V DC	1000MΩ MIN	X	—
VOLTAGE PROOF [EIA-364-20]	150V AC FOR 1 min	NO FLASHOVER OR BREAKDOWN	X	—
MECHANICAL CHARACTERISTICS				
INSERTION AND WITHDRAWAL FORCES [EIA-364-13]	MEASURED WITH RESPECT TO APPLICABLE CONNECTORS	INSERTION FORCE: 135N MAX WITHDRAWAL FORCE: 10N MIN	X	—
MECHANICAL OPERATION [EIA-364-09]	100 TIMES INSERTION AND EXTRACTION	1) CONTACT RESISTANCE CHANGE:20mΩ OR LESS 2) NO DAMAGE, CRACK OR LOOSENESS OF PARTS	X	—
RANDOM VIBRATION [EIA-364-28]	FREQUENCY:50 TO 2000Hz POWER SPECTRAL DENSITY:0.1G²/Hz FOR 120 min IN 3 DIRECTIONS	1) NO ELECTRICAL DISCONTINUITY OF 1μs OR MORE 2) NO DAMAGE, CRACK OR LOOSENESS OF PARTS	X	—
SHOCK [EIA-364-27]	490m/s², DURATION OF PULSE:11ms 18 TIMES TOTAL, 3 EACH DIRECTION, 3 AXIS		X	—
ENVIRONMENTAL CHARACTERISTICS				
THERMAL SHOCK [EIA-364-32]	TEMPERATURE(°C): -65 →20 ~ 35 → 105 →20 ~ 35 TIME(min): 30 → 5MAX → 30 → 5MAX UNDER 25 CYCLES	1) CONTACT RESISTANCE CHANGE:20mΩ OR LESS 2) NO DAMAGE, CRACK OR LOOSENESS OF PARTS	X	—
CYCLIC TEMPERATURE AND HUMIDITY [EIA-364-31]	@ 25°C, 80% RH:60 min DWELL TIME ↓ 30 min RAMP TIME @ 65°C, 50% RH:60 min DWELL TIME UNDER 24 CYCLES		X	—
DRY HEAT [EIA-364-17]	EXPOSED AT 105°C, 120 HOURS	1) CONTACT RESISTANCE CHANGE:20mΩ OR LESS 2) NO DAMAGE, CRACK OR LOOSENESS OF PARTS	X	—
MIXED FLOWING GAS [EIA-364-65]	EXPOSED AT 30°C, 70% RH Cl_2:10ppb, NO_2:200ppb, H_2S:10ppb, SO_2:100ppb UNMATED 7 DAYS → MATED 7 DAYS	1) CONTACT RESISTANCE CHANGE:20mΩ OR LESS 2) NO HEAVY CORROSION	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	TM.MATSUO	20220304
CHECKED	TS.OSHIDA	20220303
DESIGNED	KM.KUBOTA	20220303
DRAWN	KM.KUBOTA	20220303

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

DRAWING NO. ELC-374895-00-00

HRS	SPECIFICATION SHEET	PART NO.	IT8-192S-44H	
	HIROSE ELECTRIC CO., LTD.	CODE NO.	CL0636-3524-0-00	0 1/1

FORM HD0011-2-1