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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			
<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]	100mA		50mΩ 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	—
<b>MECHANICAL CHARACTERISTICS</b>					
INSERTION AND WITHDRAWAL FORCES [EIA-364-13]	MEASURED WITH RESPECT TO APPLICABLE CONNECTORS		INSERTION FORCE: 85N MAX WITHDRAWAL FORCE: 7N 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:0.1G <sup>2</sup> /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/s <sup>2</sup> , DURATION OF PULSE:11ms 18 TIMES TOTAL, 3 EACH DIRECTION, 3 AXIS			X	—
<b>ENVIRONMENTAL CHARACTERISTICS</b>					
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 <sub>2</sub> :10ppb, NO <sub>2</sub> :200ppb, H <sub>2</sub> S:10ppb, SO <sub>2</sub> :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
REMARK (*1) THE VALUE OF CONTACT RESISTANCE INCLUDES THE BULK RESISTANCE.				APPROVED	TY.TAKADA 20230804
				CHECKED	CHUNKAI YANG 20230803
				DESIGNED	KT.UENO 20230803
				DRAWN	KT.UENO 20230803
Unless otherwise specified, refer to IEC 60512.					
NOTE QT: QUALIFICATION TEST; AT: ASSURANCE TEST; X: APPLICATION TEST			DRAWING NO.	ELC-393354-00-00	
<b>HRS</b>	SPECIFICATION SHEET		PART NO.	IT8LN-120S-14H-1	
	HIROSE ELECTRIC CO., LTD.		CODE NO.	CL0636-3713-0-00	0/1/1