

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	60mΩ 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: 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 ² /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 ² , 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 ₂ S: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
REMARK (*1) THE VALUE OF CONTACT RESISTANCE INCLUDES THE BULK RESISTANCE.				APPROVED	TY.TAKADA 20220714
				CHECKED	CHUNKAI YANG 20220714
				DESIGNED	KT.AIZAWA 20220714
				DRAWN	KT.AIZAWA 20220714
Unless otherwise specified, refer to IEC 60512.					
NOTE QT: QUALIFICATION TEST; AT: ASSURANCE TEST; X: APPLICATION TEST			DRAWING NO.	ELC-393355-00-00	
HRS	SPECIFICATION SHEET		PART NO.	IT8LN-120S-18H	
	HIROSE ELECTRIC CO., LTD.		CODE NO.	CL0636-3714-0-00	0/1/1