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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 50 V	OPERATING HUMIDITY RANGE	RELATIVE HUMIDITY: 90% MAX (NO DEW CONDENSATION IS PERMITTED)
	CURRENT	0.5A(Row a), 0.3A(Row b,c) (*1)		

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	Row a: 60 mΩ MAX (*1,2) Row b: 70 mΩ MAX (*1,2) Row c: 80 mΩ MAX (*1,2)	X	—
INSULATION RESISTANCE [EIA-364-21]	100 V DC	100 MΩ MIN	X	—
2 VOLTAGE PROOF [EIA-364-20]	150 V AC FOR 1 min	NO BREAKDOWN LEAKAGE CURRENT 2mA OR LESS	X	—
MECHANICAL CHARACTERISTICS				
INSERTION AND WITHDRAWAL FORCES [EIA-364-13]	MEASURED BY APPLICABLE CONNECTOR.	INSERTION FORCE: 0.325 N/PIN MAX WITHDRAWAL FORCE: 0.015N/PIN MIN	X	—
2 MECHANICAL OPERATION [EIA-364-09]	100TIMES INSERTION AND EXTRACTION	1) CONTACT RESISTANCE CHANGE: +10 mΩ OR LESS 2) NO DAMAGE, CRACK OR LOOSENESS OF PARTS	X	—
RANDOM VIBRATION [EIA-364-28] 1	FREQUENCY: 20 TO 500 Hz POWER SPECTRAL DENSITY: 0.02 G^2/Hz FOR 60 min IN THREE DIRECTIONS	1) NO ELECTRICAL DISCONTINUITY OF 1μs OR MORE 2) NO DAMAGE, CRACK OR LOOSENESS OF PARTS	X	—
ENVIRONMENTAL CHARACTERISTICS				
2 THERMAL SHOCK [EIA-364-32] 1	TEMPERATURE(°C): -55 →20 ~ 35 → 85 →20 ~ 35 TIME(min): 30 → 5MAX → 30 → 5MAX UNDER 10 CYCLES	1) CONTACT RESISTANCE CHANGE: +10 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 ↓ 120 min RAMP TIME @ 65 °C, 90-95% RH: 120 min DWELL TIME UNDER 60 CYCLES		X	—
2 DRY HEAT [EIA-364-17]	EXPOSED AT 105°C, 300 HOURS	1) CONTACT RESISTANCE CHANGE: +10 mΩ OR LESS 2) NO DAMAGE, CRACK OR LOOSENESS OF PARTS	X	—
2 DUST [EIA-364-91]	UNMATED 1 HOUR	1) CONTACT RESISTANCE CHANGE: +10 mΩ OR LESS	X	—
2 MIXED FLOWING GAS [EIA-364-65]	EXPOSED AT 30 °C, 70% RH Cl_2 : 10 ppb, NO_2 : 200 ppb, H_2S : 10 ppb, SO_2 : 100 ppb MATED 10 DAYS	1) CONTACT RESISTANCE CHANGE: +10 mΩ OR LESS 2) NO HEAVY CORROSION	X	—

	COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE
2	6	DIS-F-00008904	DK.AIMOTO	NH.TAMAI	20210420

REMARK
(*1)SPECIFICATION WHEN MATED WITH IT9M2-84P-0.5SH3
(*2)THE VALUE OF CONTACT RESISTANCE INCLUDES THE BULK RESISTANCE

APPROVED	MK.EZAKI	20161004
CHECKED	MK.NAGATA	20161004
DESIGNED	AS.MATSUZAWA	20161004
DRAWN	AS.MATSUZAWA	20161004

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

DRAWING NO. ELC-369004-00-00

HRS	SPECIFICATION SHEET	PART NO.	IT9M2-84S-0.5SV3	
	HIROSE ELECTRIC CO., LTD.	CODE NO.	CL0636-1610-0-00	2 1/1

FORM HD0011-2-1