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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	-40°C TO 85°C(NOTE 1)	STORAGE TEMPERATURE RANGE	-10°C TO 60°C
	VOLTAGE	30V AC/DC	APPLICABLE CONNECTOR	BM24-20DS/2-0.35V(51)
	CURRENT	SIGNAL CONTACT: 0.25A POWER CONTACT: 5.0A(NOTE 2)		

SPECIFICATIONS

ITEM	TEST METHOD	REQUIREMENTS	QT	AT
CONSTRUCTION				
GENERAL EXAMINATION	VISUALLY AND BY MEASURING INSTRUMENT.	ACCORDING TO DRAWING.	X	X
MARKING	CONFIRMED VISUALLY.		X	X
ELECTRIC CHARACTERISTICS				
CONTACT RESISTANCE	20mV AC OR LESS 1kHz,1m A .	Signal contact resistance: 100 mΩ MAX. Power contact resistance: 15 mΩ MAX.	X	—
INSULATION RESISTANCE	100V DC.	100MΩ MIN.	X	—
VOLTAGE PROOF	150V AC FOR 1 min.	NO FLASHOVER OR BREAKDOWN.	X	—
MECHANICAL CHARACTERISTICS				
MECHANICAL OPERATION	10TIMES INSERTIONS AND EXTRACTIONS.	① Signal contact resistance: 100 mΩ MAX. Power contact resistance: 15 mΩ MAX. ② NO DAMAGE, CRACK OR LOOSENESS OF PARTS.	X	—
VIBRATION	FREQUENCY 10 TO 55 TO 10 Hz,APPROX 5min, SINGLE AMPLITUDE 0.75 mm,10CYCLES, FOR 3 DIRECTIONS.	① NO ELECTRICAL DISCONTINUITY OF 1 μs. ② NO DAMAGE, CRACK OR LOOSENESS OF PARTS.	X	—
SHOCK	490 m/s^2 DURATION OF PULSE 11 ms AT 3 TIMES FOR 3 DIRECTIONS.	① NO ELECTRICAL DISCONTINUITY OF 1 μs. ② NO DAMAGE, CRACK OR LOOSENESS OF PARTS.	X	—
ENVIRONMENTAL CHARACTERISTICS				
RAPID CHANGE OF TEMPERATURE	TEMPERATURE -55 → +85℃ TIME 30 → 30 min UNDER 5 CYCLES. (RELOCATION TIME TO CHANBER : WITHIN 2-3 min)	① Signal contact resistance: 100 mΩ MAX. Power contact resistance: 15 mΩ MAX. ② INSULATION RESISTANCE: 100MΩ MIN. ③ NO DAMAGE, CRACK OR LOOSENESS OF PARTS.	X	—
DAMP HEAT (STEADY STATE)	EXPOSED AT 40 ± 2 °C, 90 TO 95 %, 96 h.	① Signal contact resistance: 100 mΩ MAX. Power contact resistance: 15 mΩ MAX. ② INSULATION RESISTANCE: 50MΩ MIN. ③ NO DAMAGE, CRACK OR LOOSENESS OF PARTS.	X	—
SULPHUR DIIOXIDE	EXPOSED IN 25 PPM FOR 96h,25℃,75%. (REFER TO JIS C 60068)	① Signal contact resistance: 100 mΩ MAX. Power contact resistance: 15 mΩ MAX. ② NO EVIDENCE OF CORROSION WHICH AFFECTS TO OPERATION OF CONNECTOR.	X	—

	COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE
⚠0					

REMARKS
NOTE1: INCLUDE THE TEMPERATURE RISING BY CURRENT
NOTE2: RATED CURRENT FOR POWER CONTACTS IS 4A/PIN IN CASE MAX 0.3A/PIN IS APPLIED TO SIGNAL CONTACTS.
Unless otherwise specified, refer to JIS C 5402 and IEC 60512.

APPROVED	MO. ISHIDA	15.12.14
CHECKED	TS. MIYAZAKI	15.12.14
DESIGNED	NY. YAMASHIRO	15.12.14
DRAWN	KR. AJITO	15.12.11

Note QT:Qualification Test AT:Assurance Test X:Applicable Test

DRAWING NO. ELC-352683-53-01

HRS	SPECIFICATION SHEET	PART NO.	BM24-20DP/2-0.35V(53)	
	HIROSE ELECTRIC CO., LTD.	CODE NO.	CL677-2003-4-53 ⚠0	1/1

FORM HD0011-2-1