

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, 1mA.	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°C TIME 30 → 30 min UNDER 5 CYCLES. (RELOCATION TIME TO CHAMBER : 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 DIOXIDE		EXPOSED IN 25 PPM FOR 96h, 25°C, 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
△					
REMARKS			APPROVED	MO. ISHIDA	15.12.14
NOTE1: INCLUDE THE TEMPERATURE RISING BY CURRENT			CHECKED	TS. MIYAZAKI	15.12.14
NOTE2: RATED CURRENT FOR POWER CONTACTS IS 4A/PIN IN CASE MAX 0.3A/PIN IS APPLIED TO SIGNAL CONTACTS.			DESIGNED	NY. YAMASHIRO	15.12.14
Unless otherwise specified, refer to JIS C 5402 and IEC 60512.			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	△ 1/1