

Dec.1.2024 Copyright 2024 HIROSE ELECTRIC CO., LTD. All Rights Reserved.  
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 +125 °C $\triangle 1$	STORAGE TEMPERATURE RANGE	-10 °C TO +60 °C <sup>(1)</sup>	
	VOLTAGE	60 V AC/DC $\triangle 1$	STORAGE HUMIDITY RANGE	RELATIVE HUMIDITY 85% MAX	
	CURRENT	2 A $\triangle 1$		(NOT DEWED)	
SPECIFICATIONS					
ITEM	TEST METHOD	REQUIREMENTS	QT	AT	
<b>CONSTRUCTION</b>					
GENERAL EXAMINATION	VISUALLY AND BY MEASURING INSTRUMENT.	ACCORDING TO DRAWING.	x	x	
MARKING	CONFIRMED VISUALLY.		x	x	
<b>ELECTRIC CHARACTERISTICS</b>					
CONTACT RESISTANCE	1A DC.	10 m $\Omega$ MAX .	-	-	
CONTACT RESISTANCE MILLIVOLT LEVEL METHOD	10 mV AC MAX, 0.1 mA(DC OR 1000Hz)	10 m $\Omega$ MAX .	-	-	
INSULATION RESISTANCE	500 V DC.	100 M $\Omega$ MIN.	x	-	
VOLTAGE PROOF	1000 V AC FOR 1 min.	NO BREAKDOWN. $\triangle 1$	-	-	
<b>MECHANICAL CHARACTERISTICS</b>					
MECHANICAL OPERATION	30 TIMES INSERTIONS AND EXTRACTIONS.	① CONTACT RESISTANCE: 20 m $\Omega$ MAX. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	-	-	
VIBRATION	FREQUENCY 20 TO 200Hz (44m/s <sup>2</sup> ) SWEEP TIME 3min.(ROUND TRIP) AT 3h FOR 3 DIRECTIONS.	① NO ELECTRICAL DISCONTINUITY OF 7 $\Omega$ MIN , 1 $\mu$ s MIN. ② CONTACT RESISTANCE: 20 m $\Omega$ MAX. ③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	-	-	
SHOCK	981m/s <sup>2</sup> DURATION OF PULSE 6ms AT 3 TIMES FOR 6 DIRECTIONS.	① NO ELECTRICAL DISCONTINUITY OF 7 $\Omega$ MIN , 1 $\mu$ s MIN. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	-	-	
LOCK STRENGTH	MEASURE BREAK STRENGTH OF THE LOCK BY PULLING THE CONNECTOR IN THE MATING DIRECTION.	① 100N MIN.	x	-	
<b>ENVIRONMENTAL CHARACTERISTICS</b>					
DAMP HEAT (STEADY STATE)	EXPOSED AT 60 °C, 90 ~ 95 %, 96 h.	① CONTACT RESISTANCE: 20 m $\Omega$ MAX. ② INSULATION RESISTANCE:100 M $\Omega$ MIN. ③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	-	-	
RAPID CHANGE OF TEMPERATURE	TEMPERATURE- 40 $\rightarrow$ ROOM TEMP $\rightarrow$ 125 $^{\circ}$ C $\triangle 1$ ROOM TEMP TIME 30 $\rightarrow$ 5 $\rightarrow$ 30 $\rightarrow$ 5 min UNDER 1000 CYCLES.	① CONTACT RESISTANCE: 20 m $\Omega$ MAX. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	-	-	
DRY HEAT	EXPOSED AT 140 $^{\circ}$ C, 120 h.	① CONTACT RESISTANCE: 20 m $\Omega$ MAX. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	-	-	
COLD	EXPOSED AT -40 $^{\circ}$ C , 120 h.	① CONTACT RESISTANCE: 20 m $\Omega$ MAX. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	-	-	
RESISTANCE TO SO <sub>2</sub> GAS	EXPOSED IN 25 PPM AT 75% MIN FOR 96h.	① CONTACT RESISTANCE: 20 m $\Omega$ MAX.	-	-	
COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE	
$\triangle 1$	5 DIS-T-00011473	AN. SAIKI	KH. MARUNO	20211008	
REMARK		APPROVED	OM. MIYAMOTO	20191219	
(NOTE1) "STORAGE" means a long-term storage state for the unused product.		CHECKED	OM. MIYAMOTO	20191219	
		DESIGNED	KH. MARUNO	20191219	
		DRAWN	KH. MARUNO	20191219	
Note QT:Qualification Test AT:Assurance Test X:Applicable Test		DRAWING NO.	ELC-390118-00-00		
<b>HRS</b>	SPECIFICATION SHEET	PART NO.	ZH05-16DP-HU (B)		
	HIROSE ELECTRIC CO., LTD.	CODE NO.	CL0756-2207-0-00	$\triangle 1$	1/1