

Mar. 1. 2026 Copyright 2026 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	-25°C TO +85°C	STORAGE TEMPERATURE RANGE	-25°C TO +60°C	
	OPERATING&STORAGE HUMIDITY RANGE	85%MAX	—	—	
	VOLTAGE	AC 125V	CURRENT	0.5 A	
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	
ELECTRICAL CHARACTERISTICS					
CONTACT RESISTANCE	100 mA (DC OR 1000 Hz).	<div style="display: flex; align-items: center;"> <div style="margin-right: 10px;"> 1 → 2 </div> <div style="margin-right: 10px;"> 1 → 3 </div> <div style="margin-right: 10px;"> 1 </div> </div> USING IDC TYPE : 50mΩ MAX. (SIGNAL) USING SOLDER TYPE : 65mΩ MAX. (SIGNAL)	X	—	
INSULATION RESISTANCE	100 V DC.	1000 MΩ MIN.	X	—	
VOLTAGE PROOF	250 V AC FOR 1 min.	NO FLASHOVER OR BREAKDOWN.	X	X	
MECHANICAL CHARACTERISTICS					
INSERTION AND WITHDRAWAL FORCES	MEASURED BY APPLICABLE CONNECTOR.	INSERTION FORCE 30N MAX. WITHDRAWAL FORCE 3 N MIN.	X	—	
MECHANICAL OPERATION	1000 TIMES INSERTIONS AND EXTRACTIONS.	1) CONTACT RESISTANCE 1 <div style="display: flex; align-items: center;"> <div style="margin-right: 10px;"> 2 → 3 </div> <div style="margin-right: 10px;"> 1 </div> </div> USING IDC TYPE : 70mΩ MAX. USING SOLDER TYPE : 85mΩ MAX. 2) NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	X	—	
VIBRATION	FREQUENCY 10 TO 55 Hz SINGLE AMPLITUDE 0.75 mm, 5 min/CYCLE, TOTAL 10 CYCLES.	1) NO ELECTRICAL DISCONTINUITY OF 10 μs. 2) NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	X	—	
SHOCK	490 m/s ² DIRECTIONS OF PULSE 11 ms AT 3 TIMES FOR 3 DIRECTIONS.		X	—	
ENVIRONMENTAL CHARACTERISTICS					
THERMAL SHOCK	TEMP -55 → +5 TO +35 → +85 → +5 TO +35 °C TIME 30 → 5 → 30 → 5 min. UNDER 5 CYCLES.	1) CONTACT RESISTANCE 1 <div style="display: flex; align-items: center;"> <div style="margin-right: 10px;"> 2 → 3 </div> <div style="margin-right: 10px;"> 1 </div> </div> USING IDC TYPE : 70mΩ MAX. USING SOLDER TYPE : 85mΩ MAX. 2) NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	X	—	
HUMIDITY LIFE	TEMPERATURE 40 °C, HUMIDITY 90 TO 95 %, FOR 96 h	1) INSULATION RESISTANCE: 100 MΩ MIN. 2) NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	X	—	
CORROSION SALT MIST	EXPOSED AT 5 % SALT WATER, FOR 48 h.	NO HEAVY CORROSION THAT LOSE FUNCTION.	X	—	
<div style="display: flex; flex-direction: column; gap: 10px;"> <div> 1 → EXCLUDES CONDUCTOR RESISTANCE OF CABLE. </div> <div> 1 2 → EXAMINATION IS HELD WITH "DH-27-CV*B", "DH3*B-27S" AND "DH80-27P". (PLUG : IDC TYPE) </div> <div> 1 3 → EXAMINATION IS HELD WITH "DH-27-CV*B", "DH40-27S" AND "DH80-27P". (PLUG : SOLDER TYPE) </div> </div>					
	COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE
1	5	DIS-E-003449	TY. MIURA	AH. KODAMA	10. 10. 13
REMARK			APPROVED	AO. SUZUKI	10. 09. 02
			CHECKED	KN. ICHIKAWA	10. 09. 02
			DESIGNED	MO. SHIMOYAMA	10. 09. 02
Unless otherwise specified, refer to JIS C 5402.			DRAWN	MO. SHIMOYAMA	10. 09. 02
Note QT:Qualification Test AT:Assurance Test X:Applicable Test		DRAWING NO.		ELC4-127043-00	
HRS	SPECIFICATION SHEET		PART NO.	DH80-27P	
	HIROSE ELECTRIC CO., LTD.		CODE NO.	CL244-0051-2-00	1 / 1/1