

Apr.1.2025 Copyright 2025 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	- °C TO - °C	STORAGE TEMPERATURE RANGE	- °C TO - °C	
	VOLTAGE	200 V AC , 280 V DC	OPERATING HUMIDITY RANGE	- °C TO - °C	
	CURRENT	1 A	APPLICABLE CABLE	AWG #28(7/0.127) X 9(1.27PITCH)	
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	100 mA (DC OR 1000 Hz).		25 mΩ MAX.	X	X
CONTACT RESISTANCE MILLIVOLT LEVEL METHOD	20 mV MAX 1 mA (DC OR 1000Hz).			X	-
INSULATION RESISTANCE	500 V DC.		1000 MΩ MIN.	X	X
VOLTAGE PROOF	650 V AC FOR 1 min.		NO FLASHOVER OR BREAKDOWN.	X	X
MECHANICAL CHARACTERISTICS					
INSERTION AND WITHDRAWAL FORCES	MEASURED BY APPLICABLE CONNECTOR.		INSERTION FORCE 83.3 N MAX. EXTRACTION FORCE 55.8 N MAX.	X	-
MECHANICAL OPERATION	500 TIMES INSERTIONS AND EXTRACTIONS.		1) CONTACT RESISTANCE: 25 mΩ MAX. 2) NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	X	-
VIBRATION	FREQUENCY 10 TO 55 Hz SINGLE AMPLITUDE 0.75 mm, AT 2h, FOR 3 DIRECTIONS.		1) NO ELECTRICAL DISCONTINUITY OF 10 μs. 2) NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	X	-
SHOCK	490 m/s ² DIRECTION OF PULSE 11 ms AT 3 TIMES FOR 6 DIRECTIONS.			X	-
ENVIRONMENTAL CHARACTERISTICS					
RAPID CHANGE OF TEMPERATURE	TEMPERATURE -55 → 25 → 85 → 25 °C. TIME 30 → 10~15 → 30 → 10~15min. UNDER 5 CYCLES.		NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	X	-
DAMP HEAT (STEADY STATE)	EXPOSED AT 40°C , 90~95 % , 96 h.		1) INSULATION RESISTANCE: 10 MΩ MIN (AT HIGH HUMIDITY). 1000 MΩ MIN (AT DRY). 2) NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	X	-
CORROSION SALT MIST	EXPOSED IN 5 % SALT WATER SPRAY FOR 48 h.		NO HEAVY CORROSION.	X	-
HYDROGEN SULPHIDE TEST	H2S 3ppm , 120h		1) CONTACT RESISTANCE: 25 mΩ MAX. 2)NO HEAVY CORROSION.	X	-
DRY HEAT	TEMPERATURE +85°C, 1000h		1) CONTACT RESISTANCE: 25 mΩ MAX 2) NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	X	-
	COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE
	0				
REMARK			APPROVED	YH. ENAMI	08.09.22
			CHECKED	HO. MIWA	08.09.22
			DESIGNED	KI. NAGANUMA	08.09.22
Unless otherwise specified, refer to JIS C 5402.			DRAWN	KI. NAGANUMA	08.09.22
Note QT:Qualification Test AT:Assurance Test X:Applicable Test			DRAWING NO.		ELC4-008511-01
HRS	SPECIFICATION SHEET		PART NO.	FDB-25P (05)	
	HIROSE ELECTRIC CO., LTD.		CODE NO.	CL211-0135-0-05	1/1