



**THE DATASHEET OF
DF3-5P-2DS(01)**



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In case of consideration for using Automotive equipment / device which demand high reliability, kindly contact our sales window correspondents.

COUNT	DESCRIPTION OF REVISIONS	BY	CHKD	DATE	COUNT	DESCRIPTION OF REVISIONS	BY	CHKD	DATE	
△					△					
△					△					
APPLICABLE STANDARD										
RATING	OPERATING TEMPERATURE RANGE	-30 °C TO 85 °C(NOTE 1)			STORAGE TEMPERATURE RANGE	-10°C TO 60 °C				
	VOLTAGE	250 V AC			OPERATING HUMIDITY RANGE					
	CURRENT	3 A			APPLICABLE CONNECTOR					
SPECIFICATIONS										
ITEM		TEST METHOD			REQUIREMENTS			QT	AT	
CONSTRUCTION										
GENERAL EXAMINATION		VISUALLY AND BY MEASURING INSTRUMENT.			ACCORDING TO DRAWING.			○	○	
MARKING		CONFIRMED VISUALLY.						○	○	
ELECTRIC CHARACTERISTICS										
CONTACT RESISTANCE		100mA (DC OR 1000 Hz).			30 mΩ MAX.			○	—	
CONTACT RESISTANCE MILLIVOLT LEVEL METHOD.		20 mV MAX. mA(DC OR 1000 Hz).			m Ω MAX.			—	—	
INSULATION RESISTANCE		500V DC.			1000 MΩ MIN.			○	—	
VOLTAGE PROOF		650 V AC FOR 1 min.			NO FLASH OVER OR BREAKDOWN.			○	—	
MECHANICAL CHARACTERISTICS										
CONTACT INSERTION AND EXTRACTION FORCES		BY STEEL GAUGE.			INSERTION FORCE N MAX.		EXTRACTION FORCE N MIN.		—	—
INSERTION AND WITHDRAWAL FORCES		MEASURED BY APPLICABLE CONNECTOR.			INSERTION FORCE N MAX.		EXTRACTION FORCE N MIN.		—	—
MECHANICAL OPERATION		50 TIMES INSERTIONS AND EXTRACTIONS.			① CONTACT RESISTANCE: 30 mΩ MAX. ② NO DAMAGE, CRACK AND LOOSENESS, OF PARTS.			○	—	
VIBRATION		FREQUENCY 10 TO 55 Hz, SINGLE AMPLITUDE 0.75mm, — m/s ² AT 2 h, FOR 3 DIRECTIONS.			① NO ELECTRICAL DISCONTINUITY OF 1μs.			○	—	
SHOCK		490 m/s ² DIRECTIONS OF PULSE 11 ms AT 3 TIME FOR 3 DIRECTION.			② CONTACT RESISTANCE: — mΩ MAX. ③ NO DAMAGE, CRACK AND LOOSENESS, OF PARTS.			○	—	
ENVIRONMENTAL CHARACTERISTICS										
RAPID CHANGE OF TEMPERATURE		TEMPERATURE -55 →5 TO 35→85 →5 TO 35 °C TIME 30→10 TO 15→30 →10 TO 15 min UNDER 5 CYCLES.			① CONTACT RESISTANCE: 30 mΩ MAX. ② INSULATION RESISTANCE: 1000 Ω MIN. ③ NO DAMAGE, CRACK AND LOOSENESS, OF PARTS.			○	—	
DAMP HEAT (STEADY STATE)		EXPOSED AT 40±2 °C, 90 TO 95 %, 96 h.			① CONTACT RESISTANCE: 30 mΩ MAX. ② INSULATION RESISTANCE: 500 MΩ MIN. ③ NO DAMAGE, CRACK AND LOOSENESS, OF PARTS.			○	—	
CORROSION SALT MIST		EXPOSED IN 5 % SALT WATER SPRAY FOR 48 h.			① CONTACT RESISTANCE: 60 mΩ MAX. ② NO HAEAVY CORROSION.			○	—	
HYDROGEN SULPHIDE		EXPOSED IN — PPM FOR — h. (TEST STANDARD: JEIDA-38)			① CONTACT RESISTANCE: mΩ MAX. ② NO HAEAVY CORROSION.			—	—	
SULPHUR DIOXIDE		EXPOSED IN 10 PPM FOR 96 h. (TEST STANDARD: JEIDA-39)			① CONTACT RESISTANCE: 60 mΩ MAX. ② NO HAEAVY CORROSION.			○	—	
SOLDERING HEAT		SOLDER TEMPERATURE, 260±5 °C FOR IMMERSION, DURATION, 10S			NO DEFORMATION ON CASE OR EXCESSIVE LOOSENESS OF THE TERMINALS			○	—	
SOLDERABILITY		SOLDERED AT SOLDER TEMPERATURE, 230±5°C FOR IMMERSION DURATION, 3S.			SOLDER SHALL COVER MINIMUM OF 95 % OF THE SURFACE BEING IMMERSED.			○	—	
REMARKS				DRAWN	DESIGNED	CHECKED	APPROVED	RELEASED		
NOTE1: INCLUDE THE TEMPERATURE RISING BY CURRENT				M. Tanaka	M. Tanaka	K. Akayama	K. Katayama			
Unless otherwise specified, refer to MIL-STD-1344.				99.5.28	99.5.28	'99.5.28	'99.5.31			
Note QT: Qualification Test AT: Assurance Test ○: Applicable Test										
HRS HIROSE ELECTRIC CO., LTD.				SPECIFICATION SHEET			PART NO.			
							DF3- * P-2DS (01)			
CODE NO.(OLD)		DRAWING NO			PEART NO					
CL		ELC4-162397-01			CL543					
					1/1					

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