APPLICA	BLE STAN	DARD	$\uparrow$ 1									
OPERATING TEMPERATUR			-40°C TO 105°C( <i>note</i>	<b>91</b> ) <sub>RA</sub>	ANGE	MPERATURE		-10 °C TO 50 °C (PACKED CONDIT			۷)	
RATING	VOLTAGE		50 V AC / DC	HU	OPERATING OR : HUMIDITY RANGE APPLICABLE CABLI		RE		ATIVE HUMIDITY 90 % MAX (NOT		DEWED)	
	CURRENT		0.5 A ( <b>note2</b> )					t=0.3±0.05mm, GOLD PL		ΓING		
			0050				(GND PLATE: t=0.5±0.05mm, TIN			PLATING)		
		ı		IFIC	OITAC	NS_				1	1	
	RUCTION		TEST METHOD					REQU	REMENTS	QT	AT	
		VISUALL	Y AND BY MEASURING IN	STRUM	MENT.	ACCOF	RDING 1	TO DR	AWING.	×	×	
MARKING			CONFIRMED VISUALLY.			-				×	×	
ELECTR	ICAL CHAF	RACTE	RISTICS							1	ı	
VOLTAGE P		150 V AC FOR 1 min.				NO FLA	ASHOVE	ER OR	BREAKDOWN.	×	×	
INSULATION RESISTANC		100 V DC.			500 MΩ MIN.				×	×		
		AC 20 mV MAX (1 KHz), 1 mA.			100 mΩ MAX.				×	×		
					INCLUDING FFC BULK RESISTANCE							
MECHAN		 R∆∩TE	PISTICS			(L=8mm)	)					
VIBRATION		RACTERISTICS FREQUENCY 10 TO 55 Hz, HALF AMPLITUDE				① NO ELECTRICAL DISCONTINUITY OF			×	l —		
		0.75 mm, - m/s <sup>2</sup> FOR 10 CYCLES IN				1 μs.						
		3 AXIAL DIRECTIONS.  981 m/s <sup>2</sup> , DURATION OF PULSE 6 ms				② CONTACT RESISTANCE: $100 \text{ m}\Omega$ MAX. ③ NO DAMAGE, CRACK AND LOOSENESS						
		AT 3 TIMES IN 3 BOTH AXIAL DIRECTIONS.			OF PARTS.							
MECHANICAL 20 OPERATION		20 TIMES INSERTIONS AND EXTRACTIONS.			① CONTACT RESISTANCE: 100 mΩ MAX. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.			×	_			
		MEASURED BY APPLICABLE FPC. (THICKNESS OF FFC SHALL BE t=0.30mm AT INITIAL CONDITION.)			DIRECTION OF INSERTION: 0.3N×n MIN.			×	-			
ENVIRO	NMENTAL	l	CTERISTICS			ı					I	
RAPID CHANGE OF TEMPERATURE		TEMPERATURE-40 $\rightarrow$ +15TO+35 $\rightarrow$ +105 $\rightarrow$ +15TO+35°C TIME 30 $\rightarrow$ 2 TO 3 $\rightarrow$ 30 $\rightarrow$ 2 TO 3 min UNDER 5 CYCLES.			<ol> <li>CONTACT RESISTANCE: 100 mΩ MAX.</li> <li>INSULATION RESISTANCE: 50 MΩ MIN.</li> <li>NO DAMAGE, CRACK AND LOOSENESS OF PARTS.</li> </ol>				×	_		
DAMP HEAT		EXPOSED AT 40±2°C,							×	_		
(STEADY ST	<u> </u>	RELATIVE HUMIDITY 90 TO 95 %, 96 h.										
DAMP HEAT, CYCLIC		EXPOSED AT -10 TO +65 °C, RELATIVE HUMIDITY 90 TO 96 %, 10 CYCLES,TOTAL 240 h.			<ol> <li>CONTACT RESISTANCE: 100 mΩ MAX.</li> <li>INSULATION RESISTANCE: 1 MΩ MIN. (AT HIGH HUMIDITY)</li> <li>INSULATION RESISTANCE: 50 MΩ MIN. (AT DRY)</li> <li>NO DAMAGE, CRACK AND LOOSENESS OF PARTS.</li> </ol>			×				
DRY HEAT 🛕		EXPOSED AT 105±2 °C, 96 h.			<ul> <li>① CONTACT RESISTANCE: 100 mΩ MAX.</li> <li>② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.</li> </ul>				×	_		
COLD		EXPOSED AT -40±3°C, 96 h.							×	_		
COUN	OUNT DESCRIPTION OF REVISIONS DESI		DESIG	SNED CHECKED			DATE					
↑ 4	DL		F-00001058		HK. KIN				HS. SAKAMOTO	16. 02. 02		
REMARK		TIK. KIT		ı		PROVED NF. MIYAZAKI		15. 08. 20				
						CHECKED		KED	HS. SAKAMOTO			
			( , , , , , , , , , , , , , , , , , , ,				DESIG		HK. KINOUCHI		8. 20	
Unless otherwise specified, refer to IEC 60512.				DRAWN HK. KINOUCHI			15. 08. 20					
Note QT:Qualification Test AT:Assurance Test X:Applicable Test			DF			ELC-322472-99		)				
<b>HS</b>					PART				41-**S-0. 5SH (99)	. 1	4.15	
FORM HD0011-2-1		OSE ELECTRIC CO., LTD. CODI			E NO. CL580			<u>^\</u>	1/2			

SPECIFICATIONS								
ITEM	TEST METHOD	REQUIREMENTS	QT	AT				
CORROSION SALT MIST	EXPOSED AT $35\pm2^{\circ}\text{C}$ , $5$ % SALT WATER SPRAY FOR 96 h.	<ol> <li>CONTACT RESISTANCE: 100 mΩ MAX.</li> <li>NO EVIDENCE OF CORROSION WHICH AFFECTS TO OPERATION OF</li> </ol>	×	-				
SULPHUR DIOXIDE [JIS C 60068-2-42]	EXPOSED AT $40\pm2$ °C , RELATIVE HUMIDITY $80\pm5\%$ ,25 $\pm5$ ppm FOR 96 h.	CONNECTOR.  ③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	×	ı				
	EXPOSED AT $40\pm2$ °C , RELATIVE HUMIDITY $80\pm5\%$ ,10 TO 15 ppm FOR 96 h.	OFFARTS.	×	ı				
SOLDERABILITY	SOLDERED AT SOLDER TEMPERATURE, 245±5 °C FOR IMMERSION DURATION, 2±0.5 sec.	A NEW UNIFORM COATING OF SOLDER SHALL COVER A MINIMUM OF 95 % OF THE SURFACE BEING IMMERSED.	×	-				
RESISTANCE TO SOLDERING HEAT	1) REFLOW SOLDERING PEAK TMP. 250 °C MAX. REFLOW TMP. OVER 230 °C WITHIN 60 sec. 2) SOLDERING IRONS: TMP. 350±10°C FOR 5±1 sec.	NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS.	×					

## <u>1</u> (note1)

FOLLOW THE SPECIFICATIONS OF FFC IF IT'S ALLOWABLE MAXIMUM OPERATING TEMPERATURE IS BELOW 105°C.

## (note2)

WHEN THE SAME VALUE OF CURRENT ARE APPLID TO ALL CONTACTS AT THE SAME TIME IN ONCE, SET THE CURRENT TO THE 70 % OF THE RATED CURRENT VALUE.

Note QT:Q	ualification Test AT:Assurance Test X:Applicable Test	DRAWIN	IG NO.	ELC-322472-99-00		
RS	SPECIFICATION SHEET	PART NO.	FH41-**S-0. 5SH(99)			
	HIROSE ELECTRIC CO., LTD.	CODE NO		CL580	Δ	2/2