APPLICA	BLE STA	NDARD								
OPERATING TEMPERATUR					RAGE PERATURE RANGE ATING OR STORAGE		-10 °C TO 50 °C (PACKED CONDITIO			
RATING	VOLTAGE CURRENT		50 V AC / E	DC	HUMIE	DITY RANG	E	RELATIVE HUMIDITY 90 % MAX	,	EWED
			3mA APP		LICABLE CIC		t=0.3±0.05mm Carbon hardness: Pencil hardness H or higher		r	
			SPEC	CIFICA	OITA	NS				
I	ГЕМ		TEST METHOD				REC	UIREMENTS	QT	АТ
CONSTR										
			VISUALLY AND BY MEASURING INSTRUMENT.			ACCORDING TO DRAWING.			×	×
MARKING			MED VISUALLY.						×	×
		ARACTE				I=0 - 1.			1	1
CONTACT RESISTANCE		E  0.1mA(D	0.1mA(DC OR 1000Hz).			50 Ω MAX.			×	-
						INCLUDING CIC BULK RESISTANCE (L=80mm)				
INSULATIO	N	100 V DC	100 V DC.			(L=80mm) 500 MΩ MIN.			×	<b>†</b> _
RESISTANO										
VOLTAGE PROOF		150 V AC	150 V AC FOR 1 min.			NO FL	ASHOVER (	OR BREAKDOWN.	×	-
MECHAN	VICAL CH	HARACTE	RISTICS							1
			5 TIMES INSERTIONS AND EXTRACTIONS.			① CONTACT RESISTANCE: 70Ω MAX.			×	T —
OPERATION						② NO DAMAGE, CRACK AND LOOSENESS				
VIBRATION		FREQUE	FREQUENCY 10 TO 55 Hz, HALF AMPLITUDE				OF PARTS.  ① NO ELECTRICAL DISCONTINUITY OF			+_
		0.75 mm	0.75 mm, FOR 10 CYCLES IN 3 AXIAL				1 μs.			
CHOOK		_	DIRECTIONS.				② CONTACT RESISTANCE: 70Ω MAX.			
SHOCK			981 m/s <sup>2</sup> , DURATION OF PULSE 6 ms AT 3 TIMES IN 3 BOTH AXIAL DIRECTIONS.			③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.			×	-
(0		E MEASU	MEASURED BY APPLICABLE CIC.				DIRECTION OF INSERTION: 0.4×n N MIN			<b> </b> _
			(CONNECTOR, CIC AT INITIAL CONDITION. THICKNESS OF CIC SHALL BE t=0.30mm)			( n : NUMBER OF CONTACTS). (note 2)				
ENI/IRO	NIMENITA		ACTERISTICS	0.3011111)						
RAPID CHA			ATURE-40→+15 <sub>TO</sub> +35→+	+105→+15	то+35°C	① CO	NTACT RES	SISTANCE: 70Ω MAX.	×	T _
TEMPERATURE		TIME				② INSULATION RESISTANCE: 50 M $\Omega$ MIN.				
	-	UNDER				_		ER OR BREAKDOWN.		
DAMP HEAT (STEADY STATE)			EXPOSED AT 60±2 °C, RELATIVE HUMIDITY 90 TO 95 %, 1000 h.			(4) NO DAMAGE, CRACK AND LOOSENESS OF PARTS.			×	_
DAMP HEA			EXPOSED AT -10 TO +65 °C, RELATIVE HUMIDITY 90 TO 96 %, 10 CYCLES,TOTAL 240 h.			① CONTACT RESISTANCE: 70 $\Omega$ MAX.			×	_
						_	(2) INSULATION RESISTANCE: 1 M $\Omega$ MIN. (AT HIGH HUMIDITY) (3) INSULATION RESISTANCE: 50 M $\Omega$ MIN.			
		10 616								
						(AT DRY)				
						<ul><li>(4) NO FLASHOVER OR BREAKDOWN.</li><li>(5) NO DAMAGE, CRACK AND LOOSENESS</li></ul>				
						OF PARTS.				
DRY HEAT		EXPOSE	EXPOSED AT 105±2 °C, 1000 h.			① CONTACT RESISTANCE: 70Ω MAX.			×	1 –
COLD		EXPOSE	EXPOSED AT -40±3°C, 96h.			② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.			×	1 –
SULPHUR DIOXIDE		EXPOSE	XPOSED AT 40±2 °C , RELATIVE HUMIDITY					SISTANCE: 70Ω MAX.	×	<del>  _</del>
			80±5% , 25±5 ppm FOR 96 h.			② NO EVIDENCE OF CORROSION WHICH				
								OPERATION OF		
COUN	ІТ	DESCRIPTION	ON OF REVISIONS		DESIG	1	NNECTOR.	CHECKED	ח ר	ATE
<u> </u>		DEOURIE III	DIA OL KENDIONO		טבאט	NLD		GILONED	UF	VIE.
REMARK							APPROVE	D KN. SHIBUYA	2024	10322
Unless otherwise specified, re						CHECKED		1	202403	
			ed, refer to IEC 60512.			DESIGNED DRAWN			20240322	
								TA. SUZUKI		
				DI			ELC-402412-0	0-00	)	
HS		.,						FH52C-12S-1SH	<del></del>	
HIR HIR			05 51 507510 00 175		CODE	E NO. CL05		80-4661-0-00	Δ	1/2
FORM HD0011_2_1			CODE		140.   OLOUGO TOUT O OU		00 7001 0 00	۷	1,2	

SPECIFICATIONS								
ITEM	TEST METHOD	REQUIREMENTS	QT	АТ				
RESISTANCE TO SOLDERING HEAT	1) REFLOW SOLDERING (TO BE 2 TIMES MAX.) PEAK TMP. 250 °C MAX REFLOW TMP. OVER 230 °C WITHIN 60 sec. PRE-HEATING. 150 TO 200 °C 90 TO 120 sec. 2) SOLDERING IRONS : 400 ± 10 °C, FOR 5± 1 sec.	NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS.	×	_				
SOLDERABILITY	SOLDERED AT SOLDER TEMPERATURE, 245±3 °C FOR IMMERSION DURATION, 3±0.3 sec.	A NEW UNIFORM COATING OF SOLDER SHALL COVER A MINIMUM OF 95 % OF THE SURFACE BEING IMMERSED.	×	-				

## (note 1)

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

(note 2)
THERE'S A CASE WHICH FPC/FFC RETENTION FORCE DOESN'T FULFILL THE VALUE, BECAUSE FPC/FFC SPECIFICATION AFFECTS THE RESULT OF FPC/FFC RETENTION FORCE.

Note QT:0	Qualification Test AT:Assurance Test X:Applicable Test	DRAWIN	NG NO.	ELC-402412-00-00		
HS	SPECIFICATION SHEET	PART NO.	FH52C-12S-1SH			
1	HIROSE ELECTRIC CO., LTD.	CODE NO	CL058	0-4661-0-00	$\triangle$	2/2