APPLICA	BLE STAN	DARD									
	Operating temperature range Voltage		30V AC / DC Oper humi				-10 °C TO 50 °C (packed condition			dition)	
RATING					humi	ating or storage dity range		Relative humidity 90 % MAX (no			ot dewed)
	Current		0.20 A ^{Appli}			licable cable t=0.12±0.02mm, gold			platin	g	
			SPE	CIFIC	ATIO	٧S					
IT	EM		TEST METHOD)			RE	QUI	REMENTS	QT	AT
CONSTR	UCTION										
General examination		Visually and by measuring instrument.				According to drawing.				×	×
Marking		Confirmed visually.				(note 1,2)				×	×
	ICAL CHAI										
Voltage proof		90 V AC for 1 min.			No flashover or breakdown.				×	×	
Insulation resistance		100 V DC.			50 MΩ MIN.				×	×	
Contact resistance		AC 20 mV MAX , 1 mA .			300 mΩ MAX.				×	×	
						including fpc,ffc bulk resistance (L=8mm)					
MECHAN	ICAL CHA	RACTE	RISTICS			•					
Vibration		Frequency 10 to 55 Hz, half amplitude			$\textcircled{1}$ No electrical discontinuity of 1 $\mu s.$				×	-	
Shock		0.75 mm, for 10 cycles in 3 axial directions.				 Contact resistance: 300 mΩ MAX. No damage, crack and looseness of parts. 					-
CHOCK		981 m/s ² , duration of pulse 6 ms at 3 times in 3 both axial directions.				ତ INO	uamage, o	JIACK	and looseness of parts.	×	-
Mechanical o	operation	10times insertions and extractions.				(1) Contact resistance: 300 m Ω MAX.			×	-	
						② No damage, crack and looseness of parts.					
Fpc retention force		Measured by applicable fpc. (thickness of fpc shall be t=0.12mm at initial ondition.)				Direction of insertion : 5.6 N MIN (<i>note 3</i>)			×	-	
ENVIRO	NMENTAL		ACTERISTICS		· · · ,					1	
Corrosion sa		Exposed at 35±2 °C, 5 % salt water spray for 96 h.			for 96 h.	(1) Contact resistance: 300 m Ω MAX.			×	_	
							-		and looseness of parts.		
						<u> </u>	evidence or ration of co		rrosion which affects to		
Rapid chang	e of	Tempera	ture-55→+15⊤o+35→+85	→+15⊤0+	-35°C				e: 300 mΩ MAX.	×	-
temperature		Time $30 \rightarrow 2 \text{ to } 3 \rightarrow 30 \rightarrow 2 \text{ to } 3 \text{ min}$			$\overset{\sim}{2}$ Insulation resistance: 50 M Ω MIN.						
Dama haat		Under 5 cycles.				③ No	damage, c	crack	and looseness of parts.		
Damp heat (steady state	e)	Exposed at 40 ± 2 °C, Relative humidity 90 to 95 %, 96 h.							×	_	
Damp heat,c		Exposed at -10 to +65 °C, Relative humidity 90 to 96 %, 10 cycles, total 240 h.			 Contact resistance: 300 mΩ MAX. Insulation resistance: 1 MΩ MIN. 				×	—	
		10 cycles	s, total 240 h.			```	at high hur	-	.,		
					 ③ Insulation resistance: 50 MΩ MIN. (at dry) ④ No damage, crack and looseness of parts. 						
Dry heat		Exposed at 85±2 °C, 96 h.			1) Contact resistance: 300 m Ω MAX.				×	—	
Cold		Exposed at -55±3°C, 96 h.			② No damage, crack and looseness of parts.				×	-	
Sulphur dioxide		Exposed at 40±2 °C, Relative humidity 80±5%			 Contact resistance: 300 mΩ MAX. No damage, crack and looseness of parts. 				×	-	
		25 ± 5 ppm for 96 h.				 No evidence of corrosion which affects to 					
Hydrogen su		Exposed	at 40±2 °C,			-	eration of c			×	-
[JIS	C 60068-2-43		humidity $80\pm5\%$,								
00111	T D5		ppm for 96 h.		55010						
COUN	I DE	SCRIPTIC	ON OF REVISIONS		DESIG	NED			CHECKED	DA	ATE
REMARK							APPROV		NF. MIYAZAKI		01.27
						CHECKE			YH. MICHIDA	1	01.27
I Inless otherwise specified			ified refer to IEC 60512						SI. MIZUSAWA		01.27
Unless otherwise specified, refer to IEC 60512.								01.27			
							ELC-336359-99- FH53-41S-0. 2SHW (99)			U	
					PART	-			· · ·		1/0
		OSE ELECTRIC CO., LTD. CODE		ENO. CL580-3401-7-99		-3401-7-99	Δ	1/2			

FORM HD0011-2-1

SPECIFICATIONS								
ITEM	TEST METHOD	REQUIREMENTS	QT	AT				
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.	×	-				
Resistance to Soldering heat	 Reflow soldering : peak tmp. 250 °C MAX . reflow tmp. over 230 °C within 60 sec. Soldering irons : tmp. 350±10 °C for 5±1 sec . 	No deformation of case of excessive looseness of the terminals. (<i>note 4</i>)	×					

(note1)

This is a top contact point connector with back flip lock system.

(note2)

Do not close the actuator before inserting fpc even after the connector is mounted Onto a pcb. Closing the actuator without fpc could make the contact gap smaller, Which increases the fpc insertion force.

(note3)

Stabilize the fpc to pcb or something fixed, if pull-up or pull-down force is expected to be applied to the fpc.

(note4)

Blisters which may be generated on the housing do not affect product performance.

Note QT:Q	ualification Test AT:Assurance Test X:Applicable Test	DRAWIN	IG NO.	ELC-336359-99-00		
HRS	26 SPECIFICATION SHEET		FH53-41S-0. 2SHW (99)			
	HIROSE ELECTRIC CO., LTD.	CODE NO	CL580	-3401-7-99	◬	2/2
EODM HDOO11.	0.0					