APPLICA	BLE STAN	NDARD			Otors and					
	Operating temperature range		-55 °C to 85 °C		range	Storage temperature range Operating or storage		-10°C TO 50°C(Packed cond		on)
RATING	Voltage		30V AC / DC			numidity range		Relative humidity 90 % MAX (Not		eweo
	Current		0.3 A 🚹	Applicable cab	Applicable cable t=0.2±0.03mm, Gold			olatinę	g	
			SPEC	;IFIC/	ATIONS					
IT	EM		TEST METHOD			REQ	UIRE	MENTS	QT	A
CONSTR	RUCTION								1	
General examination		Visually and by measuring instrument.			According to	According to drawing.				×
Marking		Confirmed visually.			(note 1)					×
ELECTR	ICAL CHA	RACTE	RISTICS							
Voltage proof		90 V AC for 1 min.			No flashove	No flashover or breakdown.				- 1
Insulation resistance		100 V DC.			50 mΩ MAX	50 mΩ MAX.				-
Contact resistance		AC 20 mV MAX , 1 mA .			100 mΩ MA	100 mΩ MAX.				-
				Including FF	Including FPC bulk resistance. (L=8mm)					
MECHAN	VICAL CH	ARACTE	ERISTICS							
Vibration		Frequency 10 to 55 Hz, half amplitude			 No electr 	① No electrical discontinuity of 1 µs.				-
		0.75 mm, for 10 cycles in 3 axial directions.			0	2 Contact resistance: 100 m Ω MAX.				
Shock		981 m/s ² , duration of pulse 6 ms			③ No dama	③ No damage, crack and looseness of parts.				-
Mechanical operation		at 3 times in 3 both axial directions.			1 Contact	 Contact resistance: 100 mΩ MAX. 				-
mechanical operation		inters insertions and extractions.			0	 ① Contact resistance: 100 mΩ MAX. ② No damage, crack and looseness of parts. 				-
FPC insertion force		Measured by applicable FPC.				Insertion force : Direction of insertion				+-
		(Thickness of FPC shall be t=0.20mm				2.6+0.14 × n N MAX (<i>note 2</i>)				
		at initial condition.)				(n: Number of contacts)				
FPC retention	on force	Measured by applicable FPC. (Thickness of FPC shall be t=0.20mm			`	Retention force : Direction of extraction 5+0.07 × n N MIN (<i>note3</i>)				-
					5+0.07 × n N					
		at initial condition.)			(n: Number	(n: Number of contacts)				
ENVIRO	NMENTAI	_ CHARA	ACTERISTICS							
Rapid chang	ge of	Temperature-55 \rightarrow +15TO+35 \rightarrow +85 \rightarrow +15TO+35°C			°C ① Contact	resistance	: 100) mΩ MAX	×	Γ-
temperature		Time $30 \rightarrow 2_{to} 3 \rightarrow 30 \rightarrow 2_{to} 3 \text{ min}$			-	② Insulation resistance: 50 MΩ MIN				
		Under 5 cycles.			③ No dama	③ No damage, crack and looseness of parts.				
Damp heat		Exposed at 40±2 °C,								-
(steady state)		Relative humidity 90 to 95 %, 96 h.				• •	100		×	-
		Exposed at -10 to +65 °c, Relative humidity 90 to 96 %, 10 cycles, TOTAL 240 h.			0	 Contact resistance: 100 mΩ MAX. Insulation resistance: 1 MΩ MIN. (At high humidity) Insulation resistance: 50 MΩ MIN. (At dry) No damage, crack and looseness of parts. 				-
					-					
Dry heat		Exposed at 85±2°C, 96 h.				(1) Contact resistance: $100 \text{ m}\Omega \text{ MAX}$.				- 1
Cold		Exposed at -55±3°C, 96 h.			-	 2 No damage, crack and looseness of parts. 				- 1
Sulphur dioxide		Exposed at 40 ± 2 °C, Relative humidity $80\pm5\%$,				(1) Contact resistance: $100 \text{ m}\Omega \text{ MAX}$.				-
•	60068-2-42]	25±5 ppm		,	.,					
Solderability		Soldered at solder temperature,			A new unifor	A new uniform coating of solder shall cover a				- 1
-		$245\pm3^{\circ}$ C for immersion duration, 3 ± 0.3 sec.				minimum of 95 % of the surface being immersed.				
Resistance to		1) Reflow soldering :				No deformation of case of excessive looseness				-
soldering heat		Peak TMP. 250 °C MAX .			of the termin	of the terminals. (<i>note 4</i>)				
		Reflow TMP. over 220 °C 60 to 90 sec. Number of reflow : 2 times								
		2) Solderi								
		,	50±10 °C for 5±1 sec .							
COUN	IT C	ESCRIPTIC	ON OF REVISIONS		DESIGNED			CHECKED	DA	ΤE
			F-00007424	1	TS. WADA	1		HS. HIRAHARA	2020	01217
REMARK	I	5.0	·····	1						
			One Action Lock" completes FPC lock	k just by ins	erting the FPC.	APPROV	ΕD	HS. HIRAHARA	2020	0102
		lever when inserting the FPC. is product at an angle. Ir something fixed, if pull-up or pull-down force is expected to be apply				CHECKED		HS. HIRAHARA	HIRAHARA 2020	
(note3) Stabilize	the FPC to PCB				e applied to the FPC.	5			RA 2020102	
		retention force doesn't fulfill the value, affects the result of FPC retention force.						TS. WADA	2020102	
	•		rated on the housing do not affect product performance.						2020101	
Unless otherwise specified, refer to IEC 60512.						DRAWI	DRAWN NM. YONEYAMA		20201019	
Note QT:Q	ote QT:Qualification Test AT:Assurance Test X:Applicable Test				DRAWIN	G NO.		ELC-382927-99-00		0
HRS	S	SPECIFICATION SHEET			PART NO.	FH72-**S-0.3SHW())		
		ROSE ELECTRIC CO., LTD.			CODE NO.	CL580		CL580	\mathbf{V}	1/1
					0002110				L.,	