APPLICA	ABLE STAN	DARD								
	Operating temperature range		-55 °C to 125 °C (n	ote 6)	Storage temperature range			-10℃ TO 60℃(Packed condition)		
RATING	Voltage Current		50V AC / DC		Operating or storage humidity range		ge	Relative humidity 90 % MAX (Not		
			0.50 0		Applica (FPC/F	icable cable t=0.33±0.03mm, (C/FFC) (Ground plate : 1		t=0.33±0.03mm, Gold (Ground plate : Tin p		-
			SPEC	IFICA	NOIT	١S				
ľ	TEM		TEST METHOD				REG	QUIREMENTS	QT	A
CONSTR	RUCTION	•								
General exa	amination	Visually a	and by measuring instrumen	nt.			ling to drawi	ng.	×	×
Marking		Confirme	d visually.			(note 1	1)		×	×
ELECTR	ICAL CHA	RACTE	RISTICS							
Voltage pro	of	150 V AC	c for 1 min.			No flas	shover or bre	eakdown.	×	-
Insulation re	esistance	100 V DC	<u>)</u> .			500 MΩ MIN.			×	-
Contact resi	istance	AC 20 m	VMAX, 1mA.			[FPC] [Initial:60 mC	2 MAX、After each test:80	×	_
00111001100								g bulk resistance L=8mm)	^	
						[FFC] I	nitial:80 mΩ	2 MAX、After each test:100		
							AX (Includin	g bulk resistance L=26mm)		
	NICAL CHA			1-		<u> </u>			1	1
Vibration		Frequency 10 to 55 Hz, half amplitude				 No electrical discontinuity of 1 μs. Contact resistance: 80 mΩ MAX(FPC) 			×	-
Shock		0.75 mm, for 10 cycles in 3 axial directions. 981 m/s ² , duration of pulse 6 ms				∠ Cor	naci resista	nce: 80 mΩ MAX(FPC) 100. mΩ MAX(FFC)	×	-
		at 3 times in 3 both axial directions.				③ No	damage, cra	ack and looseness of parts.		
Mechanical	operation	10 time	s insertions and extractions	i.		① Contact resistance: 80 mΩ MAX(FPC)			×	-
						@ N		100. mΩ MAX(FFC)		
FPC/FFC		Measure	h by applicable EPC/EEC			② No damage, crack and looseness of parts. Insertion force : Direction of insertion				
insertion/extraction force		Measured by applicable FPC/FFC. (Thickness of FPC/FFC shall be t=0.33mm at initial condition.)				(n : Number of contacts)			×	_
					2+0.35×n N MAX (FPC/FFC) (<i>note 2</i>)					
						2+0	.41×n N M/	AX (Shielded FFC) (<i>note 2</i>)		
								Direction of extraction		
							mber of cor	ntacts) AX (FPC/FFC) (<i>note 2</i>)		
								AX (FFC/FFC) (<i>note 2</i>) AX (Shielded FFC) (<i>note 2</i>)		
FPC/FFC			d by applicable FPC/FFC.				on of extract	(/ /	×	-
retention for	ce	(Thickness of FPC/FFC shall be t=0.33mm				(n : Number of contacts)				
		at initial	condition.)					MIN (FPC/FFC) (<i>note3</i>)		
			ACTERISTICS			15+	0.1×n n MI	IN (Shielded FFC) (<i>note3</i>)		
Rapid chang		-	ture-55 \rightarrow +15TO+35 \rightarrow +125-		2500		toot rooisto	nce: 80 mΩ MAX(FPC)		T
temperature	0	Time	$30 \rightarrow 2_{\text{to}} 3 \rightarrow 30 \rightarrow 2_{\text{to}}$		35 C			100. mΩ MAX(FFC)	×	
-		Under 1000 cycles. Exposed at 60±2 °C,				 Insulation resistance: 50 MΩ MIN. No damage, crack and looseness of parts. 				
Damp heat	(Steady state)								×	-
Damp heat,cyclic		Relative humidity 90 to 95 %, 96 h. Exposed at -10 to +65 °c,				① Contact resistance: 80 mΩ MAX(FPC)				_
Damp neal,	Damp neat, cyclic		Relative humidity 90 to 96 %,			100. mΩ MAX(FFC)			×	-
			s, TOTAL 240 h.			2 Insu	ulation resist	tance: 1 MΩ MIN.		
							At high hum			
								tance: 50 M Ω MIN. (At dry) ack and looseness of parts		
COUN	NT DE	SCRIPTIC	ON OF REVISIONS		DESIG	NED		CHECKED	DA	٩ΤΕ
4 1		DIS-	F-00006186		KN. KOBA	YASHI		HS. HIRAHARA	2020	0061
REMARK							APPROVED HH. SHINDO		2018	3051
							CHECKE	O KN. SHIBUYA	2018	3051
					DESIGNED		D SI. TAMAKI	201805		
Unless otherwise specified, refer to IEC 60512.					DRAWN	DS. HIROWATARI	2018	3051		
Note QT:Qualification Test AT:Assurance Test X:Applicable Test			Test	DRAWING NO.			ELC-370364-00-00			
	Qualification Te	51 AT.AS								
	S	PECIFI	CATION SHEET		PART			FH67-**S-0. 5SV		1/2

	SPECIFICATIO	ONS		
ITEM	TEST METHOD	REQUIREMENTS	QT	AT
Dry heat	Exposed at 125±2°C, 1000 h.	 Contact resistance: 80 mΩ MAX(FPC) 	×	_
Cold	Exposed at -55±3℃, 1000 h.	100. mΩ MAX(FFC) ② No damage, crack and looseness of parts	×	_
Sulphur dioxide [JIS C 60068-2-42]	Exposed at 40±2 ℃, Relative humidity 80±5% 25±5 ppm for 96 h.	 Contact resistance: 80 mΩ MAX(FPC) 100. mΩ MAX(FFC) 	×	—
Solderability	Soldered at solder temperature, 245±0.3°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	 1) Reflow soldering : Peak TMP. 250 °C MAX . Reflow TMP. over 220 °C 60 to 90 sec. Number of reflow : 2 times 2) Soldering irons : TMP. 350±10 °C for 5±1 sec . 	No deformation of case of excessive looseness of the terminals. (<i>note 4</i>)	×	_

(note 1)

This product features "One Action Lock" and vertical mount.

"One Action Lock" completes FPC/FFC lock just by inserting the FPC/FFC.

Do not operate the actuator when inserting the FPC/FFC.

(note 2)

Do not insert the FPC/FFC to this product at an angle.

(note 3)

Stabilize the FPC/FFC to PCB or something fixed, if pull-up or pull-down force is exepected to be applied to the FPC/FFC. There's a case witch FPC/FFC retention force doesn't fulfill the value, because FPC/FFC specification affects the result of

FPC/FFC retention force.

(note 4)

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

(note 5)

The occurrence and the length of whisker, and the performance deterioration caused by it are out of the scope of this specification

(note 6)

The heat resistant temperature when using FFC is 105°C.

When the heat resistant temperature of FPC/FFC is less than 125°C/105°C, the heat resistant temperature of FPC/FFC is applied.

Note QT:Q	ualification Test AT:Assurance Test X:Applicable Test	DRAWIN	NG NO.	ELC-370364-00-00			
HRS	SPECIFICATION SHEET	PART NO.	FH67-**S-0. 5SV		1		
	HIROSE ELECTRIC CO., LTD.	CODE NO		CL580	і	2/2	

FORM HD0011-2-2