	BLE STAN				Ctore -	0 +0	roturo			
	Operating temperature range		-55 °C to 125 °C (n	ote 6)	Storage temperature range Operating or storage humidity range			-10℃ TO 60℃(Packed conditio		
RATING	Voltage Current		50V AC / DC				ge	Relative humidity 90 % MAX (
			() 5() A		Applica (FPC/F	cable cablet=0.33±0.03mm, Gol/FFC)(Ground plate : Tin		t=0.33±0.03mm, Gold (Ground plate :Tin p		-
			SPEC	SIFICA		٧S				
	ТЕМ		TEST METHOD				RE	QUIREMENTS	QT	AT
	RUCTION	•							-	
General exa	mination	-	and by measuring instrumer	nt.			ling to draw	<i>v</i> ing.	×	×
Marking			d visually.			(note	1)		×	×
	ICAL CHA								-	
Voltage proc		150 V AC for 1 min.			No flashover or breakdown.			×	_	
Insulation re	esistance	100 V DC.			500 MΩ MIN.			×	-	
Contact resistance		AC 20 mV MAX , 1 mA .			[FPC]	Initial:60 m	Ω MAX、After each test:80	×	_	
						m Ω MAX (Including bulk resistance L=8mm)				
					[FFC] Initial:80 m Ω MAX、After each test:100					
						mΩ M/	AX (Includir	ng bulk resistance L=26mm)		
MECHAN Vibration	NICAL CHA		ERISTICS	10		1 No	oloctricol -	iccontinuity of 1 we		1
vibration			, for 10 cycles in 3 axial dire			 No electrical discontinuity of 1 μs. Contact resistance: 80 mΩ MAX(FPC) 			×	
Shock		981 m/s^2 , duration of pulse 6 ms				(2) Contact resistance: 80 m Ω MAX(FPC) 100. m Ω MAX(FFC)			×	_
		at 3 times in 3 both axial directions.				 No damage, crack and looseness of parts. 				
Mechanical	operation	10 time	s insertions and extractions	3.		 Contact resistance: 80 mΩ MAX(FPC) 			×	—
						 No 	domogo o	100. mΩ MAX(FFC)		
FPC/FFC		Measured by applicable FPC/FFC.				② No damage, crack and looseness of parts. Insertion force : Direction of insertion				_
	raction force	(Thickness of FPC/FFC shall be t=0.33mm			(n : Number of contacts)			×		
		at initial	condition.)			2+0	.35×n N M	IAX (FPC/FFC) (<i>note 2</i>)		
								IAX (Shielded FFC) (<i>note 2</i>)		
							tion force : umber of co	Direction of extraction		
						`		IAX (FPC/FFC) (<i>note 2</i>)		
					4+0.42×n N MAX (Shielded FFC) (<i>note 2</i>)					
FPC/FFC		Measured by applicable FPC/FFC. (Thickness of FPC/FFC shall be t=0.33mm at initial condition.)				Direction of extraction			×	_
retention for	ce				(n : Number of contacts) 18+0.08×n N MIN (FPC/FFC) (<i>note3</i>)					
		al milla	condition.)					MIN (FPC/FFC) (<i>note3</i>) IIN (Shielded FFC) (<i>note3</i>)		
			ACTERISTICS			13+				
Rapid chance			ture-55→+15⊤0+35→+125-	→+15то+	35°C	① Cor	ntact resista	ance: 80 mΩ MAX(FPC)	×	_
temperature		Time $30 \rightarrow 2_{to} 3 \rightarrow 30 \rightarrow 2_{to} 3$ min			100. mΩ MAX(FFC)					
		Under 1000 cycles.				② Insulation resistance: 50 MΩ MIN.				
Damp heat ((Steady state)	Exposed at 60 ± 2 °C,			③ No damage, crack and looseness of parts.				-	
Damp heat,	cvclic	Relative humidity 90 to 95 %, 96 h. Exposed at -10 to +65 °c,				 Contact resistance: 80 mΩ MAX(FPC) 				
zamp nead,	0,010	Relative humidity 90 to 96 %,				100. mΩ MAX(FFC)				
		10 cycles	s, TOTAL 240 h.					stance: 1 MΩ MIN.		
							At high hum			
								stance: 50 M Ω MIN. (At dry) rack and looseness of parts		
COUN	IT DE	I ESCRIPTIO	ON OF REVISIONS		DESIG	NED		CHECKED	DA	TE
A 1		DIS-	F-00006186		KN. KOBA	YASHI	1	HS. HIRAHARA	2020	0615
REMARK				I			APPROVED HH. SHINDO		2018	0517
							CHECKE	D KN. SHIBUYA	2018	0517
							DESIGNE	D SI. TAMAKI	2018	0516
Unless otherwise specified, refer to IEC 60512.				DRAWN DS. HIROWATARI			2018	0516		
Note QT:Q	Qualification Te	st AT:As	surance Test X:Applicable 1	Гest	DF	DRAWING NO. ELC-370364-0			0-00)
HRS	S	PECIFICATION SHEET			PART	т NO. FH67-**S-0. 5SV		FH67-**S-0. 5SV		
	HIR	OSE ELECTRIC CO., LTD.		CODE NO.			CL580		1/2	
				1						

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SPECIFICATIONS							
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	×	-			
	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	IG NO.	ELC-370364-00-00		
HRS	SPECIFICATION SHEET	PART NO.	FH67-**S-0. 5SV			
	HIROSE ELECTRIC CO., LTD.	CODE NO		CL580	і	2/2

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