	BLE STAN				Storag	e tempe	erature		1000 TO 0000/P : :		
	Voltage Current		-55 °C to 125 ° C (n	ote 6)	Storage temperature range Operating or storage humidity range			-10°C TO 60°C(Packed condition)			
RATING			50V AC/DC				ge	Relative humidity 90 % MAX (Not dev			
			0.50 A Applic. (FPC/I			able cablet=0.33±0.03mm, GoldFFC)(Ground plate : Tin plate)				-	
			SPEC	IFICA	IOIT	٧S					
דו	EM		TEST METHOD				RE	QUIR	EMENTS	QT	AT
CONSTR	RUCTION										
General examination		Visually a	and by measuring instrumen	nt.		According to drawing.			×	×	
Marking		Confirme	d visually.			(note	1)			×	×
ELECTR	ICAL CHA	RACTE	RISTICS								
Voltage proc	of	150 V AC	c for 1 min.			No flas	shover or b	reakd	own.	×	-
Insulation resistance		100 V DC.				500 MΩ MIN.				×	_
Contact resistance		AC 20 mV MAX , 1 mA .			[FPC]	Initial:60 m	O MA	X After each test:80	×		
						[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				^	
)	
							$m\Omega$ MAX (Including bulk resistance L=26mm)				
	NICAL CHA									-	
Vibration		Frequency 10 to 55 Hz, half amplitude 0.75 mm, for 10 cycles in 3 axial directions.				(1) No electrical discontinuity of 1 μ s.				×	-
Shock		0.75 mm, for 10 cycles in 3 axial directions. 981 m/s ² , duration of pulse 6 ms				② Contact resistance: 80 mΩ MAX(FPC) 100. mΩ MAX(FFC)			×	_	
		at 3 times in 3 both axial directions.				 MOL MOL MAX(FFC) No damage, crack and looseness of parts. 					
Mechanical operation		10 times insertions and extractions.			① Contact resistance: 80 mΩ MAX(FPC)			×	-		
									100. mΩ MAX(FFC)		
FPC/FFC		Magguro	h by applicable EDC/EEC				-		and looseness of parts		
insertion/extraction force		Measured by applicable FPC/FFC. (Thickness of FPC/FFC shall be t=0.33mm			Insertion force : Direction of insertion (n : Number of contacts)			×	-		
		at initial condition.)			2+0.35×n N MAX (FPC/FFC) (<i>note 2</i>)						
									Shielded FFC) (<i>note 2</i>)		
						Extract	tion force :	Direc	tion of extraction		
						`	imber of co		,		
								`	FPC/FFC) (<i>note 2</i>)		
FPC/FFC		Measured	d by applicable FPC/FFC.				on of extra	,	Shielded FFC) (<i>note 2</i>)	×	
retention for	ce	(Thickness of FPC/FFC shall be t=0.33mm			(n : Number of contacts)			^			
		at initial	condition.)						(FPC/FFC) (<i>note3</i>)		
						15+	0.1×n N N	/IN (S	hielded FFC) (<i>note3</i>)		
ENVIRO	NMENTAL	CHARA	ACTERISTICS			-					
Rapid chang			ture-55→+15⊤0+35→+125-		35°C	1 Cor	ntact resist	ance:	80 mΩ MAX(FPC)	×	-
temperature		Time $30 \rightarrow 2_{to} 3 \rightarrow 30 \rightarrow 2_{to} 3 \text{ min}$			100. mΩ MAX(FFC) (2) Insulation resistance: 50 MΩ MIN. (3) No damage, crack and looseness of parts.						
Damp heat (Steady state)	Under 1000 cycles. Exposed at 60±2 °C,							×	+_	
	,)	Relative humidity 90 to 95 %, 96 h.								Â	
Damp heat,cyclic		Exposed at -10 to +65 °c,				(1) Contact resistance: 80 m Ω MAX(FPC)				×	—
			humidity 90 to 96 %, s, TOTAL 240 h.			@ 1	dotion	otor -	100. mΩ MAX(FFC)		
		TO CYCIES	, I O I AL 290 II.				ulation resi At high hur		e: 1 ΜΩ ΜΙΝ.		
						-	-		e: 50 MΩ MIN. (At dry)		
									and looseness of parts		
COUN	IT DE	SCRIPTIC	ON OF REVISIONS		DESIG	NED			CHECKED	DA	ATE
A 1		DIS-	F-00006186		KN. KOBA	YASHI			HS. HIRAHARA	2020	00615
REMARK					APPROVED HH. SHINDO				2018	20180517	
							CHECKE	D	KN. SHIBUYA	2018	30517
							DESIGNE	ΞD	SI. TAMAKI		30516
Unless otherwise specified, refer			er to IEC 60512.			DRAWN		N	DS. HIROWATARI	201805	
				DR	DRAWING NO. ELC-370364-00						
HRS					RT NO. FH67-**S-0. 5SV						
СЛ	-			CODE NO.			CL580		▲	1/2	
					CODE	'E NU.				<u> </u>	., 2

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SPECIFICATIONS							
ITEM	TEST METHOD	REQUIREMENTS	QT	AT			
Dry heat	Exposed at 125±2°C, 1000 h.	① Contact resistance: 80 mΩ MAX(FPC)	×	—			
Cold	Exposed at -55±3°C, 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

4 (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			
	HIROSE ELECTRIC CO., LTD.	CODE NO		CL580	і	2/2

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