APPLICA	BLE STAN	DARD									
OPERATING			-55 °C	TO 8	TO 85 °C STORAG				-10°CTO 50°C (PACKED CONDIT		
RATING	VOLTAGE		50 V AC / DC		OPER	MPERATURE RANGE PERATING OR STORAGE MIDITY RANGE		,			
			0.5.0	\ (noto 1	<b>/</b> \	_	LICABLE				
	CURRENT			(note 1	·	TIO	NIC		t=0.2±0.03mm, GOLD	PLAII	NG
		1		SPEC	IFICE	<del>\</del>	NO				T
CONSTR	EM	TEST METHOD					REQUIREMENTS			QT	AT
		VISUALL	Y AND BY MEAS	SURING IN	ISTRUM	FNT.	ACCO	RDING TO	DRAWING	×	×
MARKING		VISUALLY AND BY MEASURING INSTRUMENT.  CONFIRMED VISUALLY.				ACCORDING TO DRAWING.				×	
ELECTRI	CAL CHAI	RACTE	RISTICS							×	1
VOLTAGE P						NO FLASHOVER OR BREAKDOWN.			×	×	
INSULATION RESISTANC		100 V DC.				500 MΩ MIN.			×	×	
		AC 20 mV MAX ( 1 KHz ) , 1 mA .				100 mΩ MAX.			×	×	
						INCLUDING FPC,FFC BULK RESISTANCE (L=8mm)					
	IICAL CHA										
VIBRATION		FREQUENCY 10 TO 55 Hz, HALF AMPLITUDE 0.75 mm, — m/s <sup>2</sup> FOR 10 CYCLES IN 3 AXIAL DIRECTIONS				<ol> <li>NO ELECTRICAL DISCONTINUITY OF 1 μs.</li> <li>CONTACT RESISTANCE: 100 mΩ MAX.</li> </ol>			×	-	
SHOCK		981 m/s <sup>2</sup> , DURATION OF PULSE 6 ms AT 3 TIMES IN 3 BOTH AXIAL DIRECTIONS				③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.				-	
MECHANICA OPERATION		20 TIMES INSERTIONS AND EXTRACTIONS.				<ol> <li>CONTACT RESISTANCE: 100 mΩ MAX.</li> <li>NO DAMAGE, CRACK AND LOOSENESS OF PARTS.</li> </ol>				_	
FPC RETENTION FORCE		MEASURED BY APPLICABLE FPC. (THICKNESS OF FPC SHALL BE t=0.20mm AT INITIAL CONDITION.)				① DIRECTION OF INSERTION: 0.15N×n MIN. ② VERTICAL DIRECTION OF INSERTION: 0.15N×n MIN. (note 2)				_	
LOCK OPERATION FORCE		MEASURED BY APPLICABLE FPC. (THICKNESS OF FPC SHALL BE t=0.20mm AT INITIAL CONDITION.)				① CLOSING FORCE:  0.3N×n MAX. (4 ~ 8 POS.)			×	-	
						0.1N×n MAX. (9 ~ 50 POS.) ② OPENING FORCE: 0.05N×n MIN.					
_		_	CTERISTIC	_			@ 00		0.0711.07	. 1	1
CORROSIO	V SALT MIST	FOR 9	D AT 35 °C ,5 % 6 h.	% SALI W	ATER SE		2 NO OF 3 NO AFF	DAMAGE, PARTS. EVIDENCE	SISTANCE: 100 mΩ MAX CRACK AND LOOSENESS E OF CORROSION WHICH OPERATION OF	8	_
RAPID CHANGE OF		TEMPERATURE-55→+15TO+35→+85→			① CONTACT RESISTANCE: 100 mΩ MAX.				1 —		
TEMPERATURE		+15 $\mathrm{To}$ +35°C TIME 30 $\rightarrow$ 2 $\mathrm{To}$ 30 $\rightarrow$ 2 $\mathrm{To}$ 3 min UNDER 5 CYCLES.				<ul> <li>(2) INSULATION RESISTANCE: 50 MΩ MIN.</li> <li>(3) NO DAMAGE, CRACK AND LOOSENESS OF PARTS.</li> </ul>					
DAMP HEAT (STEADY STATE)		EXPOSED AT 40 °C, RELATIVE HUMIDITY 90 TO 95 %, 96 h.			O.	174(10.		×	-		
DAMP HEAT,CYCLIC		EXPOSED AT -10 TO +65 °C, RELATIVE HUMIDITY 90 TO 96 %, 10 CYCLES,TOTAL 240 h.			<ol> <li>CONTACT RESISTANCE: 100 mΩ MAX.</li> <li>INSULATION RESISTANCE: 1 MΩ MIN. (AT HIGH HUMIDITY)</li> <li>INSULATION RESISTANCE: 50 MΩ MIN. (AT DRY)</li> <li>NO DAMAGE, CRACK AND LOOSENESS</li> </ol>				_		
	<b>-</b> -						OF	PARTS.			
COUN'	ı DE	SCRIPTIC	ON OF REVISION	NS		DESIG	INED		CHECKED	DA	ATE
REMARK								APPROVE	ID NE MIVAZAVI	10.0	12 21
					CHECKED			16. 03. 16. 03.			
						DESIGNED			16. 03.		
Unless otherwise specified,			ed, refer to IEC 60512.				DRAWN RN. I I DA			16. 03. 24	
Note QT:Qualification Test AT:Assurance Test X:Applicable Tes				Гest	DRAWING NO. ELC-155218-		9-00	)			
HS.		EGII IO/(TIGIN GIIEET						· · ·	19C-**S-0. 5SH (99)		
	HIR	USE EL	ECTRIC CC	)., LTD.		CODE	NO.		CL580	0	1/2

SPECIFICATIONS								
ITEM	TEST METHOD	REQUIREMENTS	QT	АТ				
DRY HEAT	EXPOSED AT 85 °C, 96 h.	① CONTACT RESISTANCE: 100 mΩ MAX.	×	_				
COLD	EXPOSED AT -55°C, 96 h.	② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	×	_				
SULPHUR DIOXIDE [JIS C 60068-2-42]	EXPOSED AT 40 °C , RELATIVE HUMIDITY 80% , 25 ppm FOR 96 h.	<ol> <li>CONTACT RESISTANCE: 100 mΩ MAX.</li> <li>NO DAMAGE, CRACK AND LOOSENESS</li> </ol>	×	_				
	EXPOSED AT 40 °C , RELATIVE HUMIDITY 80% , 10 TO 15 ppm FOR 96 h.	OF PARTS.  3 NO EVIDENCE OF CORROSION WHICH AFFECTS TO OPERATION OF CONNECTOR.	×	_				
SOLDERABILITY	SOLDERED AT SOLDER TEMPERATURE, 235 °C FOR IMMERSION DURATION, 2 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 230°C WITHIN 60 sec. 2) SOLDERING IRONS: TMP. 350 ± 5 °C FOR 5 sec.	NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS.	×	_				

## (note 1)

WHEN THE SAME VALUE OF CURRENT ARE APPLID TO ALL CONTACTS AT THE SAME TIME IN ONCE, SET THE CURRENT TO THE 70 % OF THE RATED CURRENT VALUE.

## (note 2)

THIS PRODUCT HAS FLIP-LOCK CONSTRUCTION. FASTEN FPC ON PCB OR SOMETHING FIXED IF FORCE IN VERTICAL DIRECTION SHALL BE PREDICTED.

Note QT:Q	ualification Test AT:Assurance Test X:Applicable Test	DRAWIN	IG NO.	ELC-155218-99-00		
HS.	SPECIFICATION SHEET		FH19C-**S-0. 5SH(99)			
11.0	HIROSE ELECTRIC CO., LTD.	CODE NO	CL580		0	2/2