APPLICAI	BLE ST	ΓAND	ARD									
OPERATING TEMPERATURE RANGE			RANGE	-55℃ TO +105℃ 🗘	STOR TEMP	RAGE PERATURE RANGE		-1	-10°C TO +50°C(PACKED CONDITION)			
RATING	VOLTA	VOLTAGE		30V AC/DC	OPERATING OR ST			E RI	ELATI\	LATIVE HUMIDITY 90%MAX(NOT		
	CURRENT			0.2A APPLICABLE CA		ABLE t=0.2±		0.2±	:0.03mm, GOLD PLATED			
				SPEC	DIFIC	OITA	NS					
Γ	ТЕМ			TEST METHOD					REQL	JIREMENTS	QT	AT
CONSTR	UCTIO	N										
GENERAL EXAMINATION			VISUALLY AND BY MEASURING INSTRUMENT.			ACCORDING TO DRAWING.				×	×	
MARKING			CONFIRMED VISUALLY.							×	×	
ELECTRI	CAL C	HARA	CTERI	STICS							•	
VOLTAGE P	ROOF		90V AC F	FOR 1 min.			NO FLA	SHOVE	ROR	BREAKDOWN.	×	×
INSULATION RESISTANCE			100V DC.				50MΩ N	ΛIN.			×	×
CONTACT RESISTANCE			AC 20mV MAX (1KHz), 1mA.				100mΩ MAX. INCLUDING FPC BULK RESISTANCE (L=12mm)				×	×
MECHAN	ICAL (CHAR	ACTER	ISTICS								
VIBRATION			FREQUENCY 10 TO 55 Hz, HALF AMPLITUDE				① NO ELECTRICAL DISCONTINUITY OF 1 μ s. ② CONTACT RESISTANCE: 100m Ω MAX.				×	_
SHOCK			0.75 mm FOR 10 CYCLES IN 3 AXIAL DIRECTIONS. 981 m/s², DURATION OF PULSE 6ms AT 3 TIMES				3 NO	DAMAG	E, CRA	ACK AND LOOSENESS	×	 _
MECHANICA	L OPERA	ATION		H AXIAL DIRECTIONS. INSERTIONS AND EXTRAC	TIONS.			PARTS. NTACT I		ΓANCE: 100m Ω MAX.		
			TO TIMES INSERTIONS AND EXTRACTIONS.				② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.			×	-	
FPC RETENTION FORCE			MEASURED BY APPLICABLE FPC. (THICKNESS OF FPC SHALL BE t=0.20mm AT INITIAL CONDITION.)				DIRECTION OF INSERTION: 0.2N × NUMBER OF CONTACTS MIN. (note1)			×	-	
ENVIRON	IMENT			TERISTICS			(110001	<u>, </u>			ı	
CORROSION				XPOSED AT 35±2°C, 5% SALT WATER SPRAY			① CONTACT RESISTANCE: 100mΩ MAX.			×		
			FOR 96h.			 ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS. ③ NO EVIDENCE OF CORROSION WHICH AFFECTS TO OPERATION OF CONNECTOR. ① CONTACT RESISTANCE: 100m Ω MAX. ② INSULATION RESISTANCE: 50M Ω MIN. ③ NO DAMAGE, CRACK AND LOOSENESS 						
RAPID CHANGE OF TEMPERATURE			TEMPERATURE -55 \rightarrow +15 TO +35 \rightarrow +85 \rightarrow +15TO+35 °C TIME 30 \rightarrow 2 \sim 3 \rightarrow 30 \rightarrow 2 \sim 3 min UNDER 5 CYCLES.							×	-	
DAMP HEAT			EXPOSED AT 40±2°C,				OF PARTS.				×	_
(STEADY STATE)			RELATIVE HUMIDITY 90 TO 95%, 96h. EXPOSED AT -10 TO +65 °C				① CONTACT RESISTANCE: 100m Ω MAX.				^	
DAMP HEAT, CYCLIC		RELATIV	RELATIVE HUMIDITY 90 TO 96 % 0 CYCLES, TOTAL 240h.			② INSULATION RESISTANCE: 1MΩ MIN. (AT HIGH HUMIDITY) ③ INSULATION RESISTANCE: 50MΩ MIN. (AT DRY) ④ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.			×			
COUN	Т	D	ESCRIPTI	ON OF REVISIONS		DESIG	I NED			CHECKED	D/	ATE
1			F-00000511 YH.MI		HIDA		YN.TAKASHITA		15.0	07.29		
REMARK		•				APPRO	APPROVED NM.NISHIMATSU		11.0	11.06.13		
							CHEC	CHECKED FN.TAMURA		11.06.10		
I lalese otherwise and still district ISO 00540					<u> </u>		DESIGNED		HH.MURAKAMI		11.06.10	
Unless otherwise specified, refer to IEC 60512.					DRAWI		WN	HH.MURAKAMI	ı	06.10		
Note QT:Qualification Test AT:Assurance Test X:Applicable Test					DRAWING NO. ELC4-33890							
HS.		SPECIFICATION SHEET				PART NO.		FH35C-**S-0.3SHW(^		
_ = =	HIROSE E		ROSE E	ELECTRIC CO., LTD.		CODE	CODE NO.		CL580		<u>/1\</u>	1/2

	SPECIFICATIO	NS		
ITEM	TEST METHOD	REQUIREMENTS	QT	АТ
DRY HEAT	EXPOSED AT 85±2°C, 96h.	CONTACT RESISTANCE: 100mΩ MAX. NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	×	_
COLD	EXPOSED AT -55±3°C, 96h.		×	-
SULPHUR DIOXIDE [JIS C 0090]	EXPOSED AT 40±2°C, RELATIVE HUMIDITY 80±5 %, 25±5 ppm FOR 96h.	CONTACT RESISTANCE: 100mΩ MAX. NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	×	_
HYDROGEN SULPHIDE [JIS C 0092]	EXPOSED AT 40±2°C, RELATIVE HUMIDITY 80±5 %, 10 TO 15 ppm FOR 96h.	③ NO EVIDENCE OF CORROSION WHICH AFFECTS TO OPERATION OF CONNECTOR.	×	_
SOLDERABILITY	SOLDERED AT SOLDER TEMPERATURE, 235±5°C FOR IMMERSION DURATION, 2±0.5 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°CMAX. REFLOW TMP. 230°C MIN WITHIN 60 sec. 2) SOLDERING IRONS: TMP. 350±10°C FOR 5±1 sec.	NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS.	×	_

(note1)

FASTEN FPC ON PCB OR SOMETHING FIXED IF FORCE IN VERTICAL DIRECTION SHALL BE PREDICTED. DO NOT CLOSE THE ACTUATOR BEFORE INSERTING FPC EVEN AFTER THE CONNECTOR IS MOUNTED ONTO A PCB. CLOSING THE ACTUATOR WITHOUT FPC COULD MAKE THE CONTACT GAP SMALLER, WHICH INCREASES THE FPC INSERTION FORCE.

THIS CONNECTOR HAS CONTACT POINTS ON BOTH TOP AND BOTTOM.

Note QT:Qua	alification Test AT:Assurance Test X:Applicable Test	DRAWIN	G NO.	ELC4-338903-01		
ЖS	SPECIFICATION SHEET	PART NO.	FH35C-**S-0.3SHW(50)			
ЛО	HIROSE ELECTRIC CO., LTD.	CODE NO.		CL580	\triangle	2/2