	OPERATING										
ŀ		OARD		TURE RANGE	URF RANGE		-10°C TO +50°C(PACKED CONDITION)				
RATING	TEMPERATURE RANGE VOLTAGE		30V AC/DC		NG OR STORA		RELAT	TIVE I	HUMIDITY 90%MAX(NOT D	EWED))
	CURRENT		0.2A		BLE CABLE		t=0.12	2±0.0	O2mm, GOLD PLATED		
	I .			ECIFIC	ATIONS	 S	1		,		
IT	EM		TEST METHO			•		REQU	IREMENTS	QT	ТА
CONSTRU											
GENERAL EXAMINATION		VISUALL	Y AND BY MEASURING I	NSTRUMEN [*]	T. A	CCOR	DING TO	DRA'	WING.	×	×
MARKING		CONFIRMED VISUALLY.								×	×
ELECTRIC	CHARAC	TERIST	ICS								
VOLTAGE PR	ROOF	90V AC FOR 1 min.				NO FLASHOVER OR BREAKDOWN.				×	×
NSULATION	RESISTANCE	100V DC.			50	OMΩ M	IIN.			×	×
CONTACT RESISTANCE		AC 20mV MAX (1KHz), 1mA.				200mΩ MAX. INCLUDING FPC BULK RESISTANCE (L=8mm)				×	×
MECHANI [,]	CAL CHAR	ACTER	ISTICS								
VIBRATION		FREQUENCY 10 TO 55 Hz, HALF AMPLITUDE				① NO ELECTRICAL DISCONTINUITY OF 1 μ s.				×	
SHOCK		0.75 mm FOR 10 CYCLES IN 3 DIRECTIONS. 981 m/s², DURATION OF PULSE 6ms AT 3 TIMES				② CONTACT RESISTANCE: 200mΩ MAX. ③ NO DAMAGE, CRACK AND LOOSENESS				<u> </u> ^	+-
		IN 3 DIRECTIONS.				OF F	PARTS.			×	
MECHANICAL OPERATION		10 TIMES INSERTIONS AND EXTRACTIONS.			-	① CONTACT RESISTANCE: 200mΩ MAX. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.			×	_	
FPC RETENSI	ION FORCE	MEASURED BY APPLICABLE FPC. (THICKNESS OF FPC SHALL BE t=0.12mm AT INITIAL CONDITION.)			0.	DIRECTION OF INSERTION: 0.05N × NUMBER OF CONTACTS+2N MIN. (note1)			×	-	
ENVIRONI	MENTAL C		TERISTICS			101017				I	1
CORROSION	SALT MIST	EXPOSED AT 35±2°C, 5% SALT WATER SPRAY			_	① CONTACT RESISTANCE: $200m\Omega$ MAX.			×	Τ_	
		FOR 96h.				NO DAMAGE, CRACK AND LOOSENESS OF PARTS. NO EVIDENCE OF CORROSION WHICH AFFECTS TO OPERATION OF CONNECTOR.					
RAPID CHANGE OF TEMPERATURE DAMP HEAT		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			nin 2	CONTACT RESISTANCE: 200m Ω MAX. INSULATION RESISTANCE: 50M Ω MIN. NO DAMAGE, CRACK AND LOOSENESS				×	-
		UNDER 5 CYCLES. EXPOSED AT 40±2°C,				OF PARTS.				-	+
(STEADY STA		RELATIVE HUMIDITY 90 TO 95%, 96h.				 CONTACT RESISTANCE: 200m Ω MAX. INSULATION RESISTANCE: 1M Ω MIN. (AT HIGH HUMIDITY) INSULATION RESISTANCE: 50M Ω MIN. (AT DRY) NO DAMAGE, CRACK AND LOOSENESS OF PARTS. 				×	 -
DAMP HEAT,CYCLIC		EXPOSED AT -10 TO +65 °C RELATIVE HUMIDITY 90 TO 96 % 10 CYCLES, TOTAL 240h.			3					×	_
COUNT	ΓD	ESCRIPTI	ON OF REVISIONS		DESIGNI	DESIGNED CHE		CHECKED	D.A	ATE	
REMARK						Т	ADDDC	VED 1	MO IOUTO A	10.04.01	
EMPAIN.			}	APPROVED MO.ISHIDA CHECKED NM.NISHIMAT DESIGNED HY.YAMAZA		MO.ISHIDA		04.01 04.01			
							}			04.01	
Unless otherwise specified, refer to JIS C 5402.					DRAWN HY.YAMAZAKI				04.01		
·				D.P.	DRAWING NO. ELC4-322505						
SDECIFICATION SHEET -				RT NO. FH42-**S-0.3SHW(
HS.	S	PECIF	ICATION SHEET		PART N	10.		ГΠ	42-**5-0.35HW(1	U)	

SPECIFICATIONS							
ITEM	TEST METHOD	REQUIREMENTS	QT	АТ			
DRY HEAT	EXPOSED AT 85±2°C, 96h.	 CONTACT RESISTANCE: 200m Ω MAX. NO DAMAGE, CRACK AND LOOSENESS OF PARTS. 	×	_			
COLD	EXPOSED AT -55±3°C, 96h.		×	_			
SURPHUR DIOXIDE [JIS C 0090]	EXPOSED AT 40±2°C, RELATIVE HUMIDITY 80±5 %, 25±5 ppm FOR 96h.	 CONTACT RESISTANCE: 200m Ω 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 WHITIN 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 CONTACTS ON THE TOP.

Note QT:Qua	alification Test AT:Assurance Test X:Applicable Test	DRAWIN	G NO.	ELC4-322505-01		
שנו	SPECIFICATION SHEET	PART NO. FH42-**S-0.3SHW(10)			(10)	
NO	HIROSE ELECTRIC CO., LTD.	CODE NO.		CL580		2/2