APPLICABLE	STANDARD		UL, C-UL, TUV (Appendix	1)						
Operating Temperature		Range	(Note 1) -40 °C to +105 °C Storage (Included temperature rise Temperature		ure Range		(Note 2) -40 °C to +60 °C			
Rating	Voltage		caused by current-carryin	•	olicable	licable Wire		22sq (WL1, WL2, UL3832AWM) (AWG#3) (Appendix 1)		
Nacring .			Power: (Appendix 1) Signal: AC, DC 250V	Cui	CurrenT		Power: 100 A (200 A, max 2sec (UL, C-UL, TUV) (Appendix 1) 125 A (Derating curve: 2 (Appendix 2) Signal: 1 A			
	L		SPEC	IFICATION	NS		1-			
I	TEM		TEST METHOD				REQ	UIREMENTS	QT	AT
CONSTRU		Terr			I					ı
GeneraL Exami	nation		and by measuring instrument.		Accordi	ng to draw	ing.		Х	Х
Marking	AL CHADAC		visually.						Χ	Χ
	AL CHARAC	I EKEIS	1105		1					
Contact Resis	tance	Power:DC Signal:10	1 A 0 mA(DC OR 1000Hz)max		Signal:	Power:0.3 m $\Omega$ max. Signal:60 m $\Omega$ max. (Note 3) (Assurance test iS only signal)		•	х	х
Insulation Re	sistance	250 V DC				5000 MΩ min.				_
Voltage Proof	•		O V AC. for 1 min. O V AC. for 1 min.			nover or b		down. Iy signal)	Х	Х
MECHANIC	CAL CHARAC	CTERIST	TICS							
	nmating Forces	$30 \text{ mm} \pm 3$		•	_	force : 9 g force :			Х	
Mechanical Operation		100 times insertions and extractions at speed of 600 times/hour. (Signal part:30 times insertions and extractions)			act resistance change:power 0.5 mΩ max.  (Note 3) signal 40 mΩ max.  Hamage. crack and looseness of parts.		Х	-		
at		Frequency: 10 to 55 Hz, singe amplitude 0.75 mm, at 5 min/cycle, 10 cycles each in 3 axis directions. 30 cycles in total.		①No ele	①No electrical discontinuity of 10 $\mu$ s. ②No damage. crack and looseness of parts.		Х	-		
Shock		490 m/s² d	un total. duration of pulse 11 ms at 3 ti h axial directions.	imes					Х	† <b>-</b>
ENVIRON	MENTAL CHA									
			re -40 → 105 °C		①Conta	ct resista	nce (	change:power 0.5 mΩ max.	Х	_
Rapid Change		Time $30 \rightarrow 30 \text{ min}$		(Note 3) signal 40 mΩ max.						
of Temperatur	e	Chamber transfer time is 2 to 3 min.  Conduct 5 cycles of above cycles (mated)  and exposed in the room temperature for 1 to 2 hours.		-			ce : 1000 M $\Omega$ min. looseness of parts.			
Humidity Life	}	After exposure at temperature 40±2 °C, humidity 90 to 95 %, for 96 h. (mated), exposed at room temperatrure			① ①Contact resistance change:power 0.5 m $\Omega$ max. (Note 3) signal 40 m $\Omega$ max.			Х	-	
		for 1 to	for 1 to 2 hour.			②Insulation resistance : 1000 M $\Omega$ min. ③No damage crack and looseness of parts.				
Heat Resistar	nce		r exposure at temperature 105±2 °C, dity for 96 h(mated), exposed at room temperatrure			①Contact resistance change:power $0.5~\text{m}\Omega$ max. (Note 3) signal 40 m $\Omega$ max.			Х	_
		for 1 to 2 hour.			②Insulation resistance : 1000 MΩ min. ③No damage.crack and looseness of parts.					
COUN	T DF	SCRIPTI	ON OF REVISIONS	DESI	IGNED	T		CHECKED	D/	ATE
<u>1</u>	1		-E-00000869		RIHARA			AH. KODAMA	1	)4. 14
REMARK The above standard value indicates the performance of a compat		10	APPRO		'ED	NM. NISHIMATSU		7. 25		
		e indica				onnector CHECKE		NM. NISHIMATSU	15. 07	
incorporating the compatible o		ible con	nector.			DESIGN	IED	WR. YAMADA	15. (	7. 24
Inless othe	rwise specifi	ed, refe	r to IEC 60512.			DRAW	N	KK. UEHARA	15. (	06. 11
Note QT:Qu	alification Test	AT:Assur	ance Test X:Applicable Test	DRAWIN	G NO.		E	LC-128237-00-0	)	
HS.	SP	ECIFIC	ATION SHEET	PART I	NO.			PS3F-2RS/8S/10S		
11/2	HIRO	SE ELE	ECTRIC CO., LTD.	CODE	NO	CL	236	6-1055-4-00	$\bigwedge$	1/4
	i			1						1

SPECIFICATIONS								
ITEM TEST METHOD		REQUIREMENTS	QT	AT				
Cold Resistance	After exposure at $-40\pm 3$ °C, 96 h. (mated) exposed at room temperatrur for 1 to 2 hour.	①Contact resistance change:power 0.5 mΩ max.  (Note 3) signal 40 mΩ max. ②Insulation resistance: 1000 MΩ min. ③No damage.crack and looseness of parts.	Х	_				
Corrosion Salt Mist	After exposure in $35\pm2^{\circ}\text{C}$ , $5\pm1\%$ salt water spray for $48\pm4$ h(mated), washed with water, dried at normal temperature and humidity for 24 hours.	No heavy corrosion that lose function.	Х	_				

- (Note 1) The product performance is guaranteed only in the themperture adequate people's activities.
- (Note 2) Storage temperature range shows storage condition for unused products including packing materials.

  Follow the operating temperature range for storage condition after mounting. Storage period is six months UNOPENED.
- (Note 3) Contact resitance of signal parts are the vale that contains GT8E connector.

Note QT:Qual	ification Test AT:Assurance Test X:Applicable Test	DRAWING NO.	ELC-128237-00-00			
HS.	SPECIFICATION SHEET	PART NO.	PS3F-2RS/8S/10S			
πО	HIROSE ELECTRIC CO., LTD.	CODE NO	CL236-1055-4-00	$\overline{\mathbf{V}}$	2/4	

## ATTACHMENT FIGURE

Appendix 1. Condition of safety standard(UL, C-UL, TUV STANDARD)

This item got approved by safety standard (UL, C-UL, TUV STANDARD) under the condition of table 1 and table 2. Safety standard is different up to the applied rated voltage and current please see the table 1 and table 2.

Table 1. UL, C-UL condition

	Condition
Current voltage(AC/DC)	600V
Current rating	100A
	22sq
Cable	AWG#3
	(*1)
Creepage distance(*2)	MIN:3.2mm
Clearance distance(*2)	MIN:3.2mm

Table 2. TUV conditon

	Condition			
Current voltage(ac/dc)	1000V			
Current rating	100A(cable 22sq , AWG#3 *1)			
Over voltage category	ш			
Pollution degree	3			
Creepage distance(*2)	MIN:16mm			
Clearance distance(*2)	MIN:8mm			
Insulation system	Basic insulation(panel has the earth)			

\*1: As screws and crimp terminal attached with power contact have an impact on the creepage distance and the clearance distance, please use recommended screws and crimp terminals. In case you use cables other than following recommended screws and contacts. please be careful that the creepage distance and the clearance distance meet the standard of UL, C-UL, TUV.

-Recommended screw : JIS B 1188 spring washer + cross recessed pan head screw with captive

polished circular washer M6 X 12

-Recommended crimp terminal Cable 22sq : JIS C 2805 R22-6

\*2: The coverage of the creepage distance and the clearance distance is as follows.

-Between plus power supply contact and minus power supply contact

-Between plus crimp terminal and minus crimp terminal

-Between power contact and panel

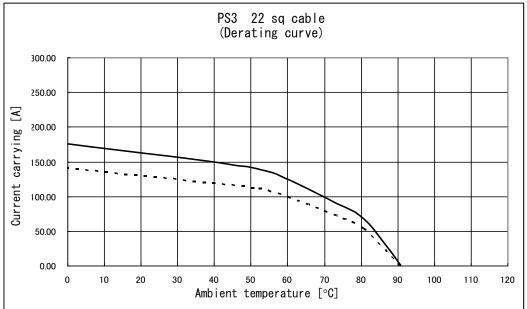
-Between crimp terminal and panel

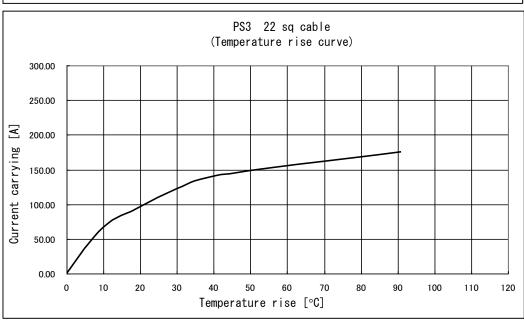
-Between screws (attacehd with power contact) and panel

Note QT:Qualification Test AT:Assurance Test X:Applicable Test		DRAWING NO.		ELC-128237-00-00		
RS SPECIFICATION SHEET		PART NO. PS3F-2RS/8S/10		S		
1.0	HIROSE ELECTRIC CO., LTD.	CODE NO	CL236	6-1055-4-00	3/4	

## ATTACHMENT FIGURE

Appendix 2. Derating curve (reference)





- 1 Derating curve takes manufacturing tolerances into consideration as well as uncertainties in temperature measurement and the measuring set up and is derived from the base curve multiplied by 0.8 calculation.
- 2 The value of rated current differs depending on the ambient temperature. it is recommended to use the product within the derating curve zone.
- 3 Measurement method of derating curve is shown below.
  - Test specimen: PS3-2UP as plug.

PS3-2US as receptacle.

- Test cable spec:22 sq mm (AWG#3)
- Test condition: turn on electricity under the static state and measure. (Test report TR0236E-20255)

Note QT	Qualification Test AT:Assurance Test X:Applicable Test	DRAWING NO.		ELC-128237-00-00		
RS SPECIFICATION SHEET		PART NO. PS3F-2RS/8S/		PS3F-2RS/8S/10	S	
	HIROSE ELECTRIC CO., LTD.	CODE NO	CL236	6-1055-4-00	4	4/4