APPLICABLE	STANDARD		UL, C-UL, TUV (Appendix	1)						
	Operating		(Note 1) $-40$ °C to $+105$	_	orage					
	Temperature Range		(Included temperature ris	1	Temperature Range		(Note 2) $-40$ °C to $+60$ °C		°C	
Poting			caused by current-carryin	•	plicable	Wire	22	sq(WL1, WL2, UL3832AWM) (	VMC#3	`
				ΛÞ	ритоавте	WIII C		ppendix 1)	Allu#5	,
Rating			Power: (Appendix 1)	Cu	ırrenT		Po	wer: 100 A (200 A, max	2sec	)
	Voltage		Signal : AC, DC 250V				(UL, C-UL, TUV) (Appendix 1)			\
								125 A (Derating cu (Appendix		°C)
							Si	gnal: 1 A	2)	
	•		SPEC	IFICATIO	NS			-		
I	TEM		TEST METHOD			ı	REQI	JIREMENTS	QT	AT
CONSTRU	CTION	<b>I</b> .							- II	
GeneraL Exami	nation	Visually	and by measuring instrument.		Accordi	ng to drawir	ng.		Х	Х
Marking		Confirmed	Confirmed visually.			1			х	Х
ELECTRIC	AL CHAR	ACTEREIS	TICS		•					
Contact Resis	stance	Power:DC	1 A		Power:0.	3 mΩ max.				
			00 mA(DC OR 1000Hz)max		-	60 mΩ max.			Х	Х
Insulation Re	nintanan	250 V DC				(Assurance test iS only signal) 5000 M $\Omega$ min.			-	
			20.1/.40				1	1	Х	_
Voltage Proof	Ī	1	00 V AC. for 1 min. 50 V AC. for 1 min.			nover or bre nce test is			Х	Х
MECHANIC	CAL CHAR				(			, 3,	I	I.
Mating and Ur	mating Force		by applicable connector at a s	peed of	_	force : 98			Х	_
Maabaa: aal Oa		30 mm ± 3				ing force : 98 N max.				
Mechanical Op	peration		100 times insertions and extractions at speed of 600 times/hour.		①Contac	①Contact resistance change:power 0.5 mΩ max.			Х	_
		(Signal p	oart:30 times insertions and ex	tractions)	②No dar			ce 3) signal 40 mΩ max. Ilooseness of parts.		
Vibration		Frequency	y : 10 to 55 Hz, singe amplitud	ام ا 75 mm				it inuity of 10 $\mu$ s.	Х	<u> </u>
			cycle, 10 cycles each in 3 axis		_			I looseness of parts.	^	
			s in total.							
Shock		1	duration of pulse 11 ms at 3 t	imes					Х	_
ENVIRONI	JENTAL C		th axial directions.							
LIVINOIVI	VILIVITAL O		ure -40 → 105 °C		(1)Conta	ct resistan	CO (	change:power 0.5 mΩ max.	Х	Ι_
Rapid Change		Time	$30 \rightarrow 30 \min$		Toonta			te 3) signal 40 mΩ max.	^	
of Temperatur	·e		Chamber transfer time is 2 to 3 min.			②Insulation resistance : 1000 $M\Omega$ min.				
oomporaca.			5 cycles of above cycles(mated) sed in the room temperature for		③No da			looseness of parts.		
Humidity Life	)		posure at temperature 40±2 °C,			ct resistano	ce c	change:power 0.5 mΩ max.	Х	_
			95 %, for 96 h. (mated), exposed at room temperatrure			(Note 3) signal 40 m $\Omega$ max.			^	
		for 1 to	2 hour.		②Insul	ation resis	tano	ce : 1000 MΩ min.		
		4.51	105:0.00		③No da	mage.crack	and	looseness of parts.	-	
Heat Resistar	ice		posure at temperature 105±2 °C, for 96 h(mated), exposed at ro	oom temperatru				change:power 0.5 mΩ max.	Х	_
		for 1 to		om comporaci a				te 3) signal 40 mΩ max.		
					_			ce : 1000 MΩ min. Tooseness of parts.		
								,		
COUN	IT	DESCRIPT	ION OF REVISIONS	DES	SIGNED			CHECKED		TE
<u> </u>	• •			DLC				J. ILUNED	ار	
REMARK						APPROVE	D	TU. TANIGUCHI	2022	30130
		alue indica	es the performance of a compatible connector		connector	131 11111				
incorporating the compatible co		·	Compactor Confiden		DESIGNED MO. SHIMOYAMA		20230130			
Unless otherwise specified, ref						DRAWN MO. SHIMOYAMA				
						DNAWN				30127
NOTE Q1:Qu			rance Test X:Applicable Test	DRAWIN	IG NO.			LC-128237-11-00		
HS.			CATION SHEET	PART	NO.	F	PS:	3F-2RS/8S/10S (1 <sup>-</sup>	)	
	HIR	OSE ELI	ECTRIC CO., LTD.	CODE	NO	CL02	23	6-1055-4-11	$\triangle$	1/4

SPECIFICATIONS								
ITEM	TEST METHOD	REQUIREMENTS	QT	AT				
Cold Resistance	After exposure at $-40\pm3$ °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 $35\pm2^{\circ}$ 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-128237-11-00		
<b>RS</b>	SPECIFICATION SHEET	PART NO.	PS3F-2RS/8S/10S(11)		
	HIROSE ELECTRIC CO., LTD.	CODE NO	CL0236-1055-4-11	Ò	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
Cable	22sq 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

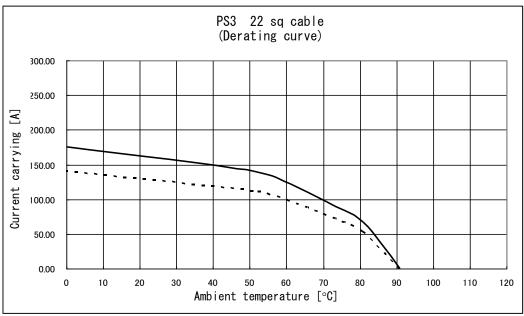
-Between crimp terminal and panel

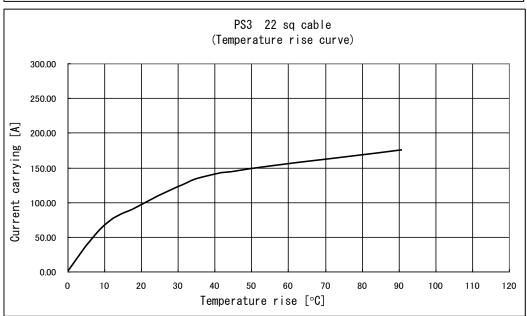
-Between screws (attacehd with power contact) and panel

Note QT:C	Qualification Test AT:Assurance Test X:Applicable Test	DRAWIN	IG NO. ELC-128237-11-0		
RS SPECIFICATION SHEET		PART NO.	PS3F-2RS/8S/10S(11)		
1.0	HIROSE ELECTRIC CO., LTD.	CODE NO	CL023	6-1055-4-11	

## 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 (11) (male contact)
     PS3-2US (11) (female contact)
  - 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	DRAWIN	ING NO. ELC-128237-11-00		
HRS	SPECIFICATION SHEET	PART NO.	PS3F-2RS/8S/10S(11)		
11.0	HIROSE ELECTRIC CO., LTD.	CODE NO	CL023	6-1055-4-11	4/4