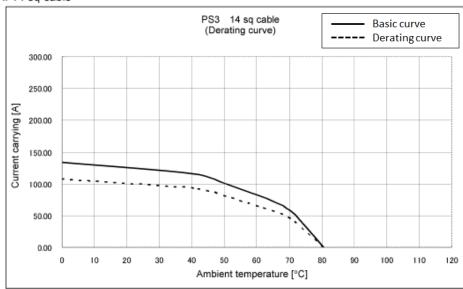
APPLICABLE S	TANDARD									
	Operating		-40 °C TO +105 °C (N	is is	torage	Temperat	ıre	40.05 70 : 00.0		
	Temperature	Range	(Included temperature rise		lange	-		-40 °C T0 +60 °C)
_	Voltage		caused by current-carryin	nt-carrying)				D		
RATING			Power: 1000 V Signal: AC, DC 250 V			Power: 150A		ower. 150A 210A(Derating cu	25	°C)
MATING			Signal. AU, DU 250 V					(Appendix 1)	VE.23	C)
			14sg to 50sg	C	urrent		S	ignal: 1A		
F	Applicable W	ire	(AWG#5 to AWG#1/0	n)				The Rating Current for each	annlical	hle wir
			(Allumo to Allumi)	0)				ze can be found in table 3.	аррттоа	310 W 111
			SPF	CIFICATION	ONS					
170	-u			011 107 (11)	1		DEOL	LIDEMENTO	QT	
CONSTRUC			TEST METHOD				KEQU	JIREMENTS	QT	AT
General Examina		Vigually	and by measuring instrument.		Accordi	ng to draw	ing		T	Τ.,
	4 - 1011					iig to ura	ilig.		Х	Х
Marking			visually.						Х	Х
ELECTRICA	L CHARAC	TEREIS	TICS							
Contact Resista	ance	Power: DC	1 A			0.3 mΩ MA			Х	Х
		Signal: 1	00 mA(DC OR 1000Hz)MAX.		- C	60 mΩ MA	***			
Insulation Resi	intanan	250 V DC			(Assura	nce test i	s only	y signal)		
	I S LAIIUE		00 V 40 . f 1 ' -						Х	+-
Voltage Proof			00 V AC. for 1 min. 50 V AC. for 1 min.			hover or b nce test i			Х	Х
MECHANICA	AL CHARAC				(Assura	IIOG LESL I	o UIII	y orginal/		1
Mating and Unma			by applicable connector at a s	speed of	Mating	force: 137	. 2 N I	MAX.	Х	Ι_
Ü	J	30 mm ± 3								
						g force: 1	31.21	N MAX.	Х	_
Mechanical Oper	ration		insertions and extractions a	t a speed of 6	300 ① Cont	act resist	ance (change:Power 0.5 mΩ MAX.	Х	_
		times/hou	r. signal part: 30 times insertio	one and			Si	gnal 40 m Ω MAX. (Note 3)		
		extractio	- '	ulis allu	② No d	amage, cra	ck and	d looseness of parts.		
Vibration			: 10 to 55 Hz, singe amplitude	e 0 75 mm	① No e	lectrical	disco	ntinuity of 10 μs.	Х	_
			cycle, 10 cycles each in 3 ax		@ N			d looseness of parts.	^	
		1	in total.	iai airoccione	,.					
Shock		490 m/s² d	duration of pulse 11 ms for 3	times					Х	_
			axial directions.							
ENVIRONME	ENTAL CHA								-	
		Temperatu Time	re -40 → 105 °C 30 → 30 min		① Cont	act resist	ance (change:Power 0.5 mΩ MAX.	Х	_
Panid Changa at	f Tomporatura		ransfer time is 2 to 3 min.				Si	gnal 40 m Ω MAX. (Note 3)		
Napru Grange Gr	i relliperature		cycles of above cycles(mated)	-			ce: 1000 MΩ MIN.		
			ed in the room temperature fo		s. (3) No d	amage, cra	ck and	d looseness of parts.		
Humidity Life		After exp	osure at temperature 40±2 °C,	humidity 90	to ① Cont	act resist	ance (change:Power 0.5 mΩ MAX.	Х	_
			r 96 h (mated), exposed at roo	om temperatrur	re e		Si	gnal 40 m Ω MAX. (Note 3)		
		for 1 to	2 hour.		② Insu	lation res	istan	ce: 1000 MΩ MIN.		
					3 No d	amage, cra	ck and	d looseness of parts.		
Heat Resistance	е		osure at temperature 105±2 °C			act resist	ance (change:Power 0.5 mΩ MAX.	Х	_
		humidity for 1 to	for 96 h (mated), exposed at	room temperat	rure		Si	gnal 40 m Ω MAX. (Note 3)		
		101 1 10	2 110ur.		② Insu	lation res	istan	ce: 1000 MΩ MIN.		
					3 No d	amage, cra	ck and	d looseness of parts.		
COUNT	DE	SCRIPTI	ON OF REVISIONS	DE	SIGNED			CHECKED	DA	ATE
<u>1</u>		DIS-	E-0000869	TA.	TORIHARA			AH. KODAMA	17. (04. 14
REMARK						ADDDOV	ED			
	operation tem	perature i	ncludes the temperature rise	by current ca	rrving.	APPR0V	בע	RI. TAKAYASU	15. 1	2. 244
			hows storage condition for un		, 0 .	CHECKE	D	NM. NISHIMATSU	15 1	2. 244
			materials. Follow the operati	ng	OTIZ OT				10. 12. 24	
			ge condition after mounting. parts are the value that con	tains GTRE oor	nector	DESIGN	ED	WR. YAMADA	15. 1	2. 222
(NOTE 3) COUL	aot 1691181166	or Signal	parts are the value that CON	carrio UTOE COF	IIIGU LUI .	DD 1				
Unless other	wise specifi	ed, refe	r to IEC 60512.			DRAWN		WR. YAMADA	15.	12. 22
Note QT:Quali	ification Test	AT:Assur	ance Test X:Applicable Test	DRAW	ING NO.		F	LC-129145-00-0)	
	CD.	ECIEIO	ATION CHEET							
HS.			ATION SHEET		T NO.	1		S3-2US/12S/16S-I		1
	HIRO	SE ELE	ECTRIC CO., LTD.	COD	E NO	C	_236	6-1079-0-00	\triangle	1/7

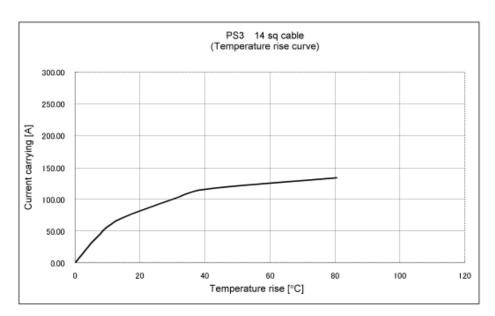
ITEM	TEST METHOD	REQUIREMENTS	QT	AT
ENVIRONMENTAL (CHARACTERISTICS			
Cold Resistance	After exposure at -40 ± 3 °C, 96 h (mated) exposed at room temperatrur for 1 to 2 hour.	① Contact resistance change:Power 0.5 mΩ MAX. Signal 40 mΩ MAX. (Note 3) ② Insulation resistance: 1000 MΩ MIN. ③ No damage, crack and looseness of parts.	Х	
Corrosion Salt Mist	After exposure in $35\pm2^{\circ}$ C, $5\pm1\%$ salt water spray for 48 ± 4 h (mated), washed with water, dried at normal temperature and humidity for 24 hours.	No heavy corrosion that lose function.	Х	_

Note QT:Qualification Test AT:Assurance Test X:Applicable Test		DRAWING NO	ELC-129145-00-00		
HS.	SPECIFICATION SHEET	PART NO	PS3-2US/12S/16S-	-FA	
Т	HIROSE ELECTRIC CO., LTD.	CODE NO	CL236-1079-0-00	\triangle	2/7

Appendix 1. Derating curve (reference)

i. 14 sq cable



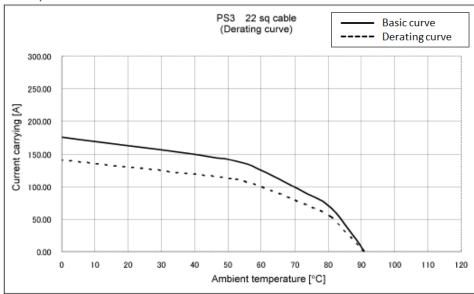


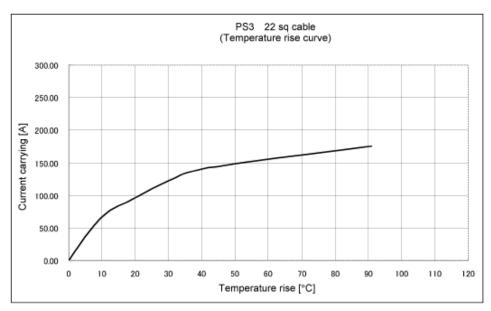
- Note 1: Derating curve takes manufacturing tolerances into consideration as well as uncertainties in temperature measurement and the measuring set up and is derived from the base curve multiplied by 0.8 calculation.
 - $2: The \ value \ of \ rated \ current \ differs \ depending \ on \ the \ ambient \ temperature.$
 - It is recommended to use the product within the derating curve zone.
 - 3: Measurement method of derating curve is shown below.
 - -Test specimen: PS3-2US (female contact side connector, using the same contacts as the here handled PS3-2US/16S-FA)
 - PS3-2UP(male contact side connector)
 - -Test cable spec: 14 mm² (AWG#5)
 - -Test condition: Turn on electricity under the static state and measure.

Note QT:Qualification Test AT:Assurance Test X:Applicable Test		DRAWING NO	ELC-129145-00-00		
K 5	SPECIFICATION SHEET	PART NO	PS3-2US/12S/16S-F	FA	
Т	HIROSE ELECTRIC CO., LTD.	CODE NO	CL236-1079-0-00	<u> </u> 3/7	

Appendix 1. Derating curve (reference)

ii. 22 sq cable





- Note 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: PS3-2US(female contact side connector, using the same contacts as the here handled PS3-2US/12S/16S-FA)

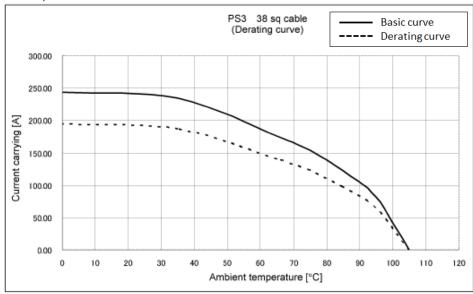
PS3-2UP(male contact side connector)

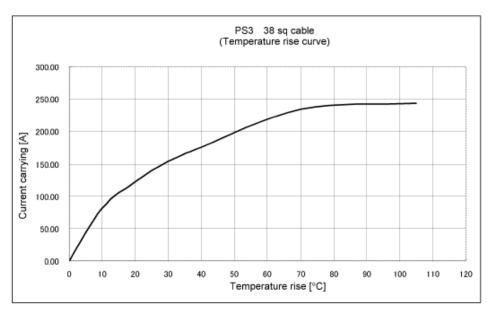
- -Test cable spec : 22 mm² (AWG#3)
- -Test condition: Turn on electricity under the static state and measure.

Note QT:Qualification Test AT:Assurance Test X:Applicable Test		DRAWING NO	ELC-129145-00-00		
K 5	SPECIFICATION SHEET	PART NO	PS3-2US/12S/16S-	-FA	
Т	HIROSE ELECTRIC CO., LTD.	CODE NO	CL236-1079-0-00	<u> </u>	./7

Appendix 1. Derating curve (reference)

iii. 38 sq cable



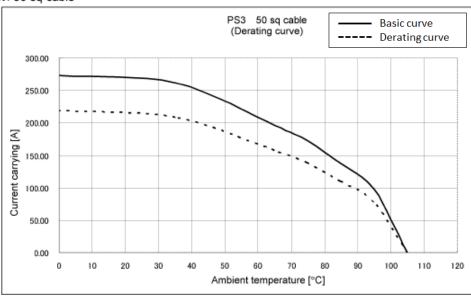


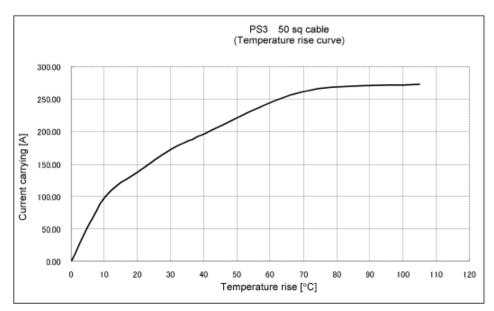
- Note 1: Derating curve takes manufacturing tolerances into consideration as well as uncertainties in temperature measurement and the measuring set up and is derived from the base curve multiplied by 0.8 calculation.
 - $2: \mbox{The value of rated current differs depending on the ambient temperature.}$
 - It is recommended to use the product within the derating curve zone.
 - 3: Measurement method of derating curve is shown below.
 - -Test specimen: PS3-2US(female contact side connector, using the same contacts as the here handled PS3-2US/16S-FA)
 PS3-2UP(male contact side connector)
 - -Test cable spec : 38 mm² (AWG#1)
 - -Test condition: Turn on electricity under the static state and measure.

Note QT:Qualification Test AT:Assurance Test X:Applicable Test		DRAWING NO	ELC-129145-00-00		
K 5	SPECIFICATION SHEET	PART NO	PS3-2US/12S/16S-	-FA	
Т	HIROSE ELECTRIC CO., LTD.	CODE NO	CL236-1079-0-00	<u> </u>	

Appendix 1. Derating curve (reference)

iv. 50 sq cable





- Note 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: PS3-2US (female contact side connector, using the same contacts as the here handled PS3-2US/16S-FA)
 - PS3-2UP(male contact side connector)
 - -Test cable spec: 50 mm^2 (AWG#1/0)
 - -Test condition: Turn on electricity under the static state and measure.

Note QT:Qualification Test AT:Assurance Test X:Applicable Test		DRAWING NO	ELC-129145-00-00		
K 5	SPECIFICATION SHEET	PART NO	PS3-2US/12S/16S-FA		
л/3	HIROSE ELECTRIC CO., LTD.	CODE NO	CL236-1079-0-00	<u> </u>	

Table 3. List of the rated current for each applicable wire size.

COMPANY INTERN STANDARD	Derataing curve
	Ambient temperature 25°C
Applicable wire	(Appendix 1)
14mm², AWG#5	100A
22mm², AWG#3	125A
38mm², AWG#1	190A
50mm ² , AWG#1/0	210A

Note QT:Qualification Test AT:Assurance Test X:Applicable Test		DRAWING NO	ELC-129145-00-00		
HS.	SPECIFICATION SHEET	PART NO	PS3-2US/12S/16S-FA	4	
Т	HIROSE ELECTRIC CO., LTD.	CODE NO	CL236-1079-0-00	介 7/7	