APPLICABLE	STANDARD		UL, C-UL TUV STANDARD	(Appendix	1)						
Operating Temperature		e Range			e Range		emperature $-40$ °C TO $+60$ °C (Note 2)				
RATING	Voltage		caused by current-carryi (Appendix 1)		Current	ent		150 A (UL, C-UL, TUV) (Appendix		1)	
	Applicable	e Wire	14sq to 50sq	0)				210 A (Derating curve:25°C) (Appendix 2) % The Rating Current for each applica		ole wir	
			(AWG#5 to AWG#1/					ze can be found in table 3.			
				CIFICATI	ONS					T	
			TEST METHOD				REQ	UIREMENTS	QT	AT	
General Exami		Visually	and by measuring instrument.		Accor	rding to dra	awing.		x		
Marking		Confirmed	visually.						X	X X	
ELECTRIC	AL CHARA		TICS						1		
Contact Resis	stance	DC 1 A			0.3 m	nΩ MAX.			x	Х	
Insulation Re	esistance	250 V DC			5000	MΩ MIN.			X	_	
Voltage Proot	-	2000 V AC	. for 1 min.		No f	lashover or	break	down.	x	_	
MECHANI	CAL CHAR	ACTERIST	ICS						^		
Mating and Ur	mating Force	s Measured 30 mm ± 3	by applicable connector at a	speed of	Matir	nge force :	ge force : 49 N MAX. X Ing force: 49 N MAX. X			-	
					Unmat	ting force:				-	
Mechanical Operation 100 times times/hou		insertions and extractions a r.	t speed of 60	0001		act resistance chang : 0.5 m $\Omega$ MAX. mage, crack and looseness of parts.		х	-		
			: 10 to 55 hz, singe amplitu				electrical discontinuity of 10 $\mu$ s. X damage. crack and looseness of parts.			-	
			cycle, 10 cycles each in 3 a in total.	XIS direction	1S. @ W	o damago. or	uon u				
		-	duration of pulse 11 ms at 3 t h axial directions.	times			;		х	-	
ENVIRON	MENTAL CI	HARACTE	RISTICS								
			$re -40 \rightarrow 105 \ ^{\circ}C$		0			change : 0.5 m $\Omega$ MAX.	Х	—	
Rapid Change		Time Chamber t	$30 \rightarrow 30$ min transfer time is 2 to 3 min.		②Insulation resistance : 1000 MΩ MIN. ③No damage.crack and looseness of parts.						
of Temperatu	е	Conduct 5	5 cycles of above cycles(mated	of above cycles(mated)							
Humidity Life	2		sed in the room temperature fo posure at temperature 40±2 °C,			ntact resis	tance	change : 0.5 m $\Omega$ MAX.	AX X		
numiaily Life			96 h. (mated), exposed at room				X				
Heat Resistar	nce	After exp	posure at temperature 105 $\pm$ 2 °c	,	(1)Co	ntact resis <sup>.</sup>	esistance change : 0.5 m $\Omega$ MAX.			-	
		humidity for 1 to	for 96 h(mated), exposed at r 2 hour.	oom temperat	e						
Cold Resistar	ice		oosure at −40±3 °C, 96 h.(mate	ed)	-	DNo damage.crack and looseness of parts. Dontact resistance change : Ο.5 mΩ MAX.			x	_	
		exposed a	at room temperatrur for 1 to 2				~				
Corrosion Salt Mist		-	posure in $35\pm2^\circ$ c, $5\pm1\%$ salt water spray for mated),washed with water,dried at normal			③No damage.crack and looseness of parts. No heavy corrosion that lose function.			x	-	
		temperatu	re and humidity for 24 hours.							1	
COUN	IT	DESCRIPTI	ON OF REVISIONS	DI	ESIGNED	)		CHECKED	DA	ΑTE	
⚠ 1		DIS-	-E-00000869	TA	TORIHAR			AH. KODAMA	17. 04. 14		
REMARK (Note 1) The operation tem		emperature i	ncludes the temperature rise b	ov current ca	rrving	rving			14.0	07. 23	
(Note 2) Storage temperature range shows storage condition			hows storage condition for unu	used products	includin			NM. NISHIMATSU	14.07.		
packing materials.follow th after mounting.			ior storage	condition	DEGIGI	ED	WR. YAMADA				
Unless otherwise specified, refer to IEC					DRAWN		WR. YAMADA	14. 07. 22			
			ance Test X:Applicable Test	Brown	ING NO.			ELC4-128555-00	)		
RS			ATION SHEET		T NO.		000	PS3C-B-1UP			
		USE ELE	ECTRIC CO., LTD.	COD	DE NO	C	L236	6-1065-8-00	$\Lambda$	1/7	

FORM HD0011-2-1

DIS-E-00000869 Inscription changes regarding Rating Current and others.

## 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 1	Condition 2			
Current voltage(ac/dc)	600V				
Current rating	100A	150A			
	14 to 22sq	38 to 50sq			
Cable	AWG#5 to AWG#3	AWG#1 to AWG#1/0			
	(*1)	(*1)			
Creepage distance(*2)	MIN:3.2mm				
Clearance distance(*2)	MIN:3.2mm				

Table 2. TUV conditon

	Condition I	Condition ${\rm I\!I}$	Condition 🎞				
Current voltage(ac/dc)	800 V	600V	1000V				
	100A(cable 14 to	100A(cable 14 to 22sq , AWG#5 to AWG#3 *1)					
Current rating	125A(cable 38sq	125A(cable 38sq , AWG#1 *1)					
	150A(cable 50sq , AWG#1/0 *1)						
Over voltage category	Ш						
Pollution degree	3						
Creepage distance(*2)	MIN:12.6mm	MIN:12.6mm	MIN:16mm				
Clearance distance(*2)	MIN:6mm	MIN: 6mm	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.

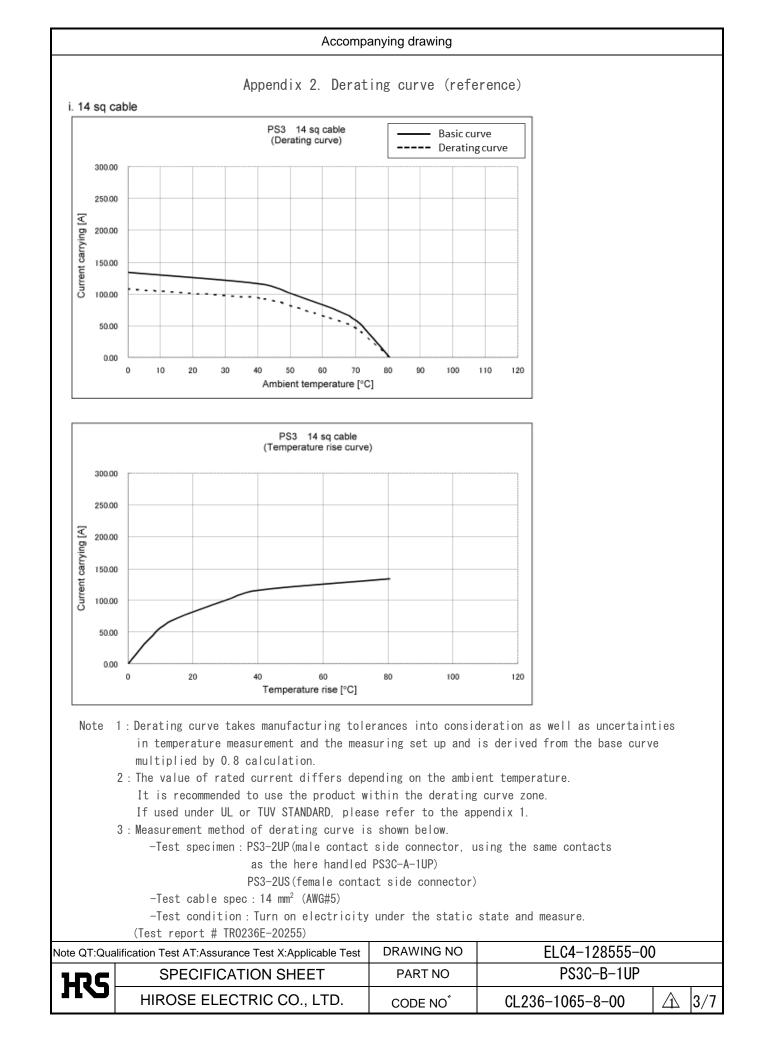
-Recommended screw : JIS B 1188 spring washer + cross recessed pan head screw with captive polished circular washer M6 X 12

-Recommended crimp terminal

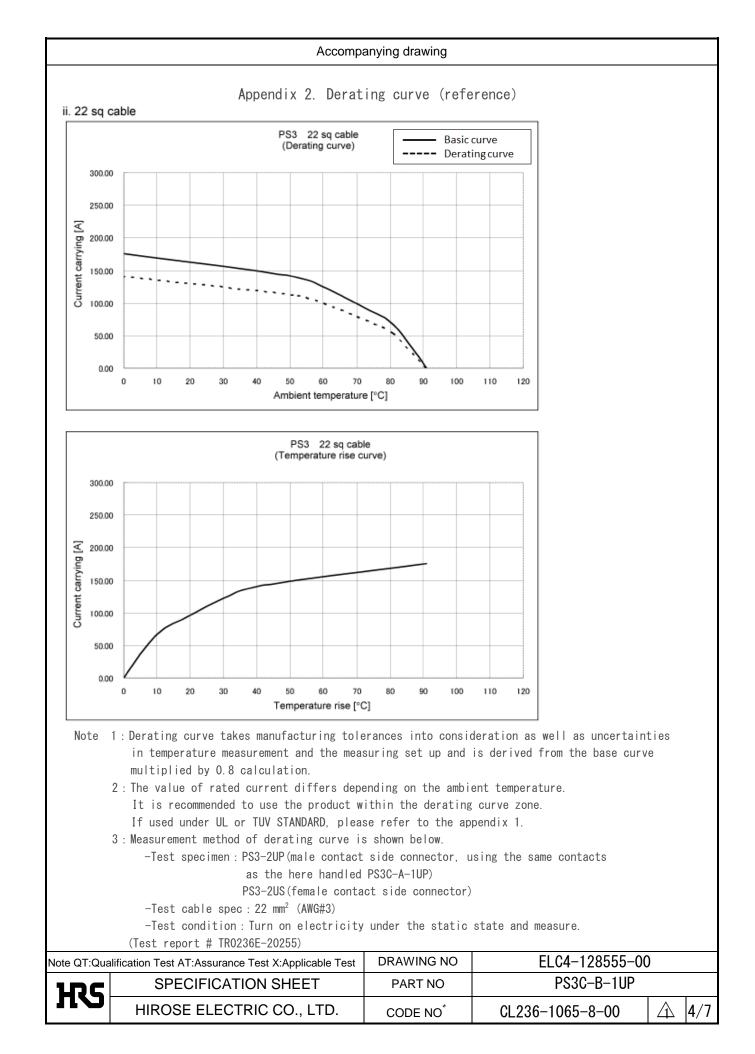
- Cable 14sq : JIS C 2805 R14-6 Cable 22sq : JIS C 2805 R22-6
- Cable 38sq : Manufactured by NICHIFU CO.,LTD R38-6S
- Cable 50sq : Manufactured by NICHIFU CO., LTD R60-6S
- \*2: The coverage of the creepage distance and the clearance distance is as follows. -Between plus power supply contact and minus 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

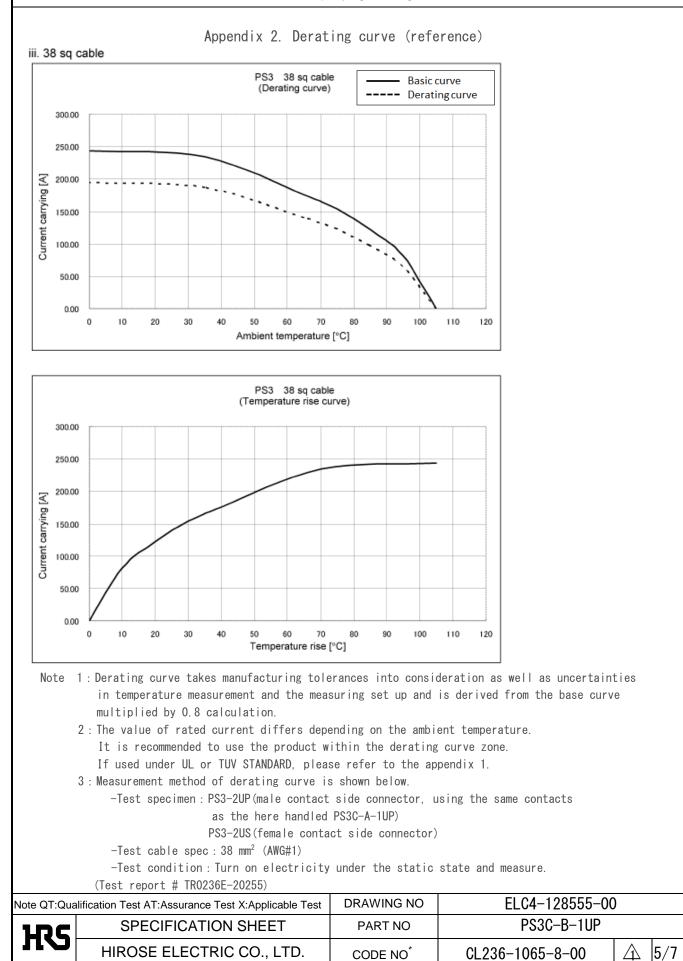
Detween solews (attacend with power contact) and panel						
Note QT:Qualification Test AT:Assurance Test X:Applicable Test		DRAWING NO	ELC4-128555-00			
HRS	SPECIFICATION SHEET	PART NO	PS3C-B-1UP			
	HIROSE ELECTRIC CO., LTD.	CODE NO	CL236-1065-8-00		2/7	



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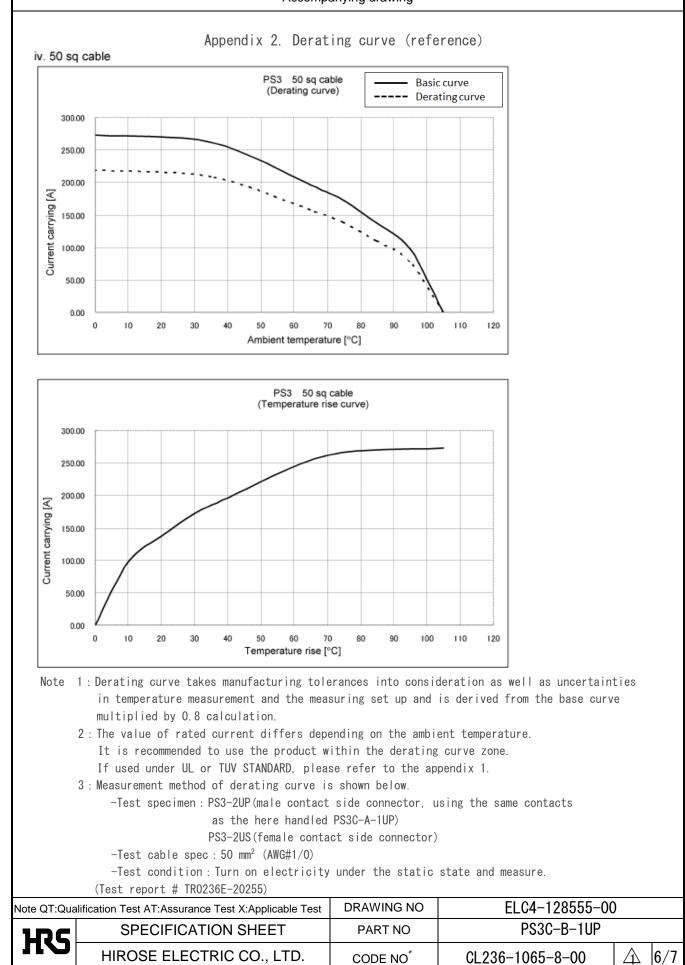


## Accompanying drawing





## Accompanying drawing



## Accompanying drawing

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

STANDARD Applicable wire	UL∕C-UL (Appendix 1)	TUV (Appendix 1)	Derataing curve Ambient temperature 25°C (Appendix 2)
14mm <sup>2</sup> , AWG#5	100A	100A	100A
22mm <sup>2</sup> , AWG#3	100A	100A	125A
38mm <sup>2</sup> , AWG#1	150A	125A	190A
50mm <sup>2</sup> , AWG#1/0	150A	150A	210A

Note QT:Qualification Test AT:Assurance Test X:Applicable Test		DRAWING NO	ELC4-128555-00			
HRS	SPECIFICATION SHEET	PART NO	PS3C-B-1UP			
	HIROSE ELECTRIC CO., LTD.	CODE NO <sup>°</sup>	CL236-1065-8-00		7/7	