APPLICABLE	STANDARD		UL, C-UL TUV STANDARD	(Appendix	1)						
	Operating		-40 °C TO $+105$ °C (Note	e 1) S	Storage	Temperatu	ure				
	Temperature Range Voltage		(Included temperature ri caused by current-carryi		Range		-	40 °C TO +60 °C (Note	2)		
RATING			(Appendix 1)		Current	ent		150 A (UL,C-UL,TUV) (Appendix 210 A (Derating curve:25°C)		x 1)	
	Applicable V	Wire	14sq to 50sq (AWG#5 to AWG#1/	0)				(Appendix 2) % The Rating Current for each appli size can be found in table 3.		icable wire	
			SPEC		ONS		51				
I	TEM		TEST METHOD				REQ	UIREMENTS	QT	AT	
CONSTRU	CTION	-									
General Examination Visu		Visually	ally and by measuring instrument.		Accord	According to drawing.		х	Х		
Marking			Confirmed visually.						Х	Х	
ELECTRIC	AL CHARAC	TEREIS	TICS								
Contact Resi	stance	DC 1 A			0.3 m <u>0</u>	2 MAX.			Х	Х	
Insulation Re	esistance	250 V DC			5000 M	Ω MIN.			Х	—	
Voltage Proo	2	2000 V AC	000 V AC. for 1 min.		No fla	shover or	break	down.	Х	-	
MECHANI	CAL CHARA	CTERIST	ICS		1				1	1	
Mating and U	nmating Forces		Measured by applicable connector at a speed of 30 mm \pm 3 mm/min.		Mating	e force :	49 N I	MAX.	Х	—	
					Unmati	Unmating force: 49 N MAX .		х	-		
		100 times times/hou			Utonic	tact resistance chang : 0.5 m Ω MAX. damage, crack and looseness of parts.		х	_		
Vibration Frequen			equency : 10 to 55 hz, singe amplitude 0.75 mm,		<u></u>	 No electrical discontinuity of 10 μs. No damage. crack and looseness of parts. 		х	-		
		30 cycles	cycle, 10 cycles each in 3 a in total.		s. (2) No	damage. cr	аск а	nd looseness of parts.			
			O m/s ² duration of pulse 11 ms at 3 times r 3 both axial directions.						х	-	
ENVIRON	MENTAL CH	ARACTE	RISTICS								
			$re -40 \rightarrow 105 \ ^{\circ}C$		-			change : 0.5 m Ω MAX.	Х	—	
Rapid Change		Time $30 \rightarrow 30$ min Chamber transfer time is 2 to 3 min.		-	②Insulation resistance : 1000 MΩ MIN. ③No damage.crack and looseness of parts.						
of Temperatu	e	Conduct 5	nduct 5 cycles of above cycles(mated) d exposed in the room temperature for 1 to 2 hours.								
Humidity Life)	After exp	After exposure at temperature 40 ± 2 °C, humidity 90 to		to ①Cont			х	-		
			for 96 h.(mated), exposed at room temperatrure to 2 hour.		د/١١٩٢	②Insulation resistance : 1000 MΩ MIN. ③No damage.crack and looseness of parts.					
Heat Resista	ice		exposure at temperature 105±2 °c,		-	$$ ()Contact resistance change : 0.5 m Ω MAX.		х	- 1		
		-	midity for 96 h(mated), exposed at room temperatrure or 1 to 2 hour.			②Insulation resistance : 1000 MΩ MIN. ③No damage.crack and looseness of parts.					
Cold Resistance			exposure at -40±3 °C, 96 h.(mated) A at room temperatrur for 1 to 2 hour.		①Cont	①Contact resistance change : 0.5 mΩ MAX. ②Insulation resistance : 1000 MΩ MIN.		х	—		
Corrosion Salt Mist		48±4 h(m	oosure in 35±2°c, 5±1% salt mated),washed with water,dried ure and humidity for 24 hours.	ater spray for No heavy		-	mage.crack and looseness of parts. vy corrosion that lose function.		x	-	
		Lemper att	n e and number y for 24 nours.								
COUN	IT DE		ON OF REVISIONS		SIGNED			CHECKED		TE	
<u>/î∖</u> 1 REMARK		DIS-	E-00000869	TA.	TORIHARA)4. 14	
(Note 1) The operation temperature in (Note 2) Storage temperature range sh		includes the temperature rise by current carryir shows storage condition for unused products incl he operating temperature range for storage conc			ing. cluding CHECKED		NM. NISHIMATSU NM. NISHIMATSU)7.23)7.23		
							WR. YAMADA)7. 23		
after mounting. Unless otherwise specified, refe						DRAWN		WR. YAMADA)7. 22	
Note QT:Qualification Test AT:Assur				DRAWING NO.		ELC4-128555-00		1			
			ATION SHEET	Brown	ΓNO.			PS3C-B-1UP			
RS			ECTRIC CO., LTD.		E NO	CI	_236	6-1065-8-00	Λ	1/7	
FORM HD0011-2-1									171		

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			
600V				
100A	150A			
14 to 22sq	38 to 50sq			
AWG#5 to AWG#3	AWG#1 to AWG#1/0			
(*1)	(*1)			
MIN:3.2mm				
MIN:3.2mm				
	100A 14 to 22sq AWG#5 to AWG#3 (*1) MII			

Table 2. TUV conditon

	Condition I	Condition I	Condition 🎞		
Current voltage(ac/dc)	800 V	600V	1000V		
	100A(cable 14 to 22sq , AWG#5 to AWG#3 \star 1)				
Current rating	125A(cable 38sq , AWG#1 *1)				
	150A(cable 50sq , AWG#1/0 *1)				
Over voltage category	Π	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

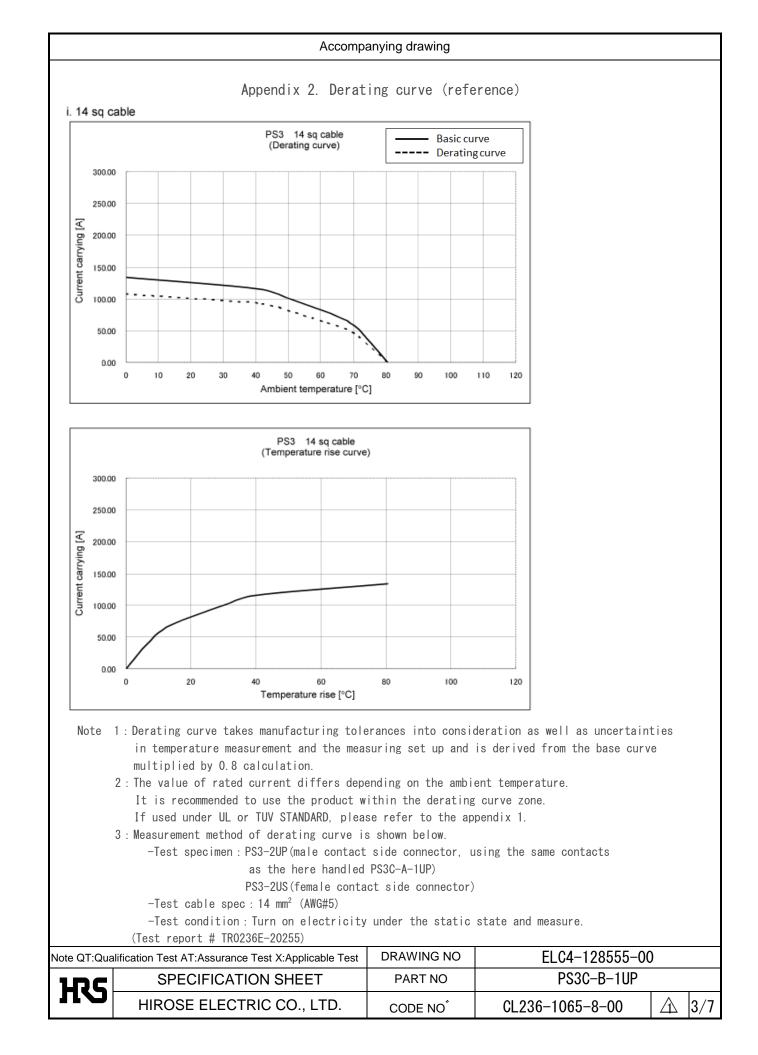
Cable 14sq : JIS C 2805 R14-6 Cable 22sq : JIS C 2805 R22-6

Cable 38sq : Manufactured by NICHIFU CO.,LTD R38-6S

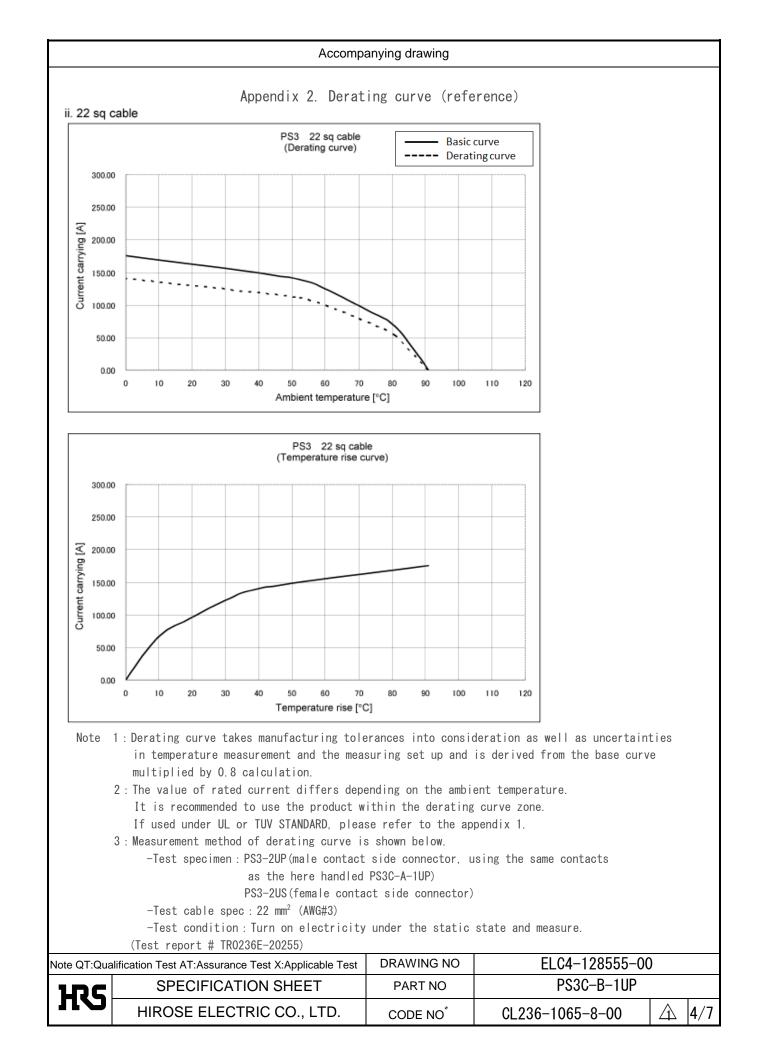
- Cable 50sq : Manufactured by NICHIFU CO., LTD R60-6S
- *2: The coverage of the creepage distance and the clearance distance is as follows.
 -Between plus power supply contact and minus power supply contact
 -Between plus crimp terminal and minus crimp terminal
 - -Between power contact and panel
 - -Between crimp terminal and panel

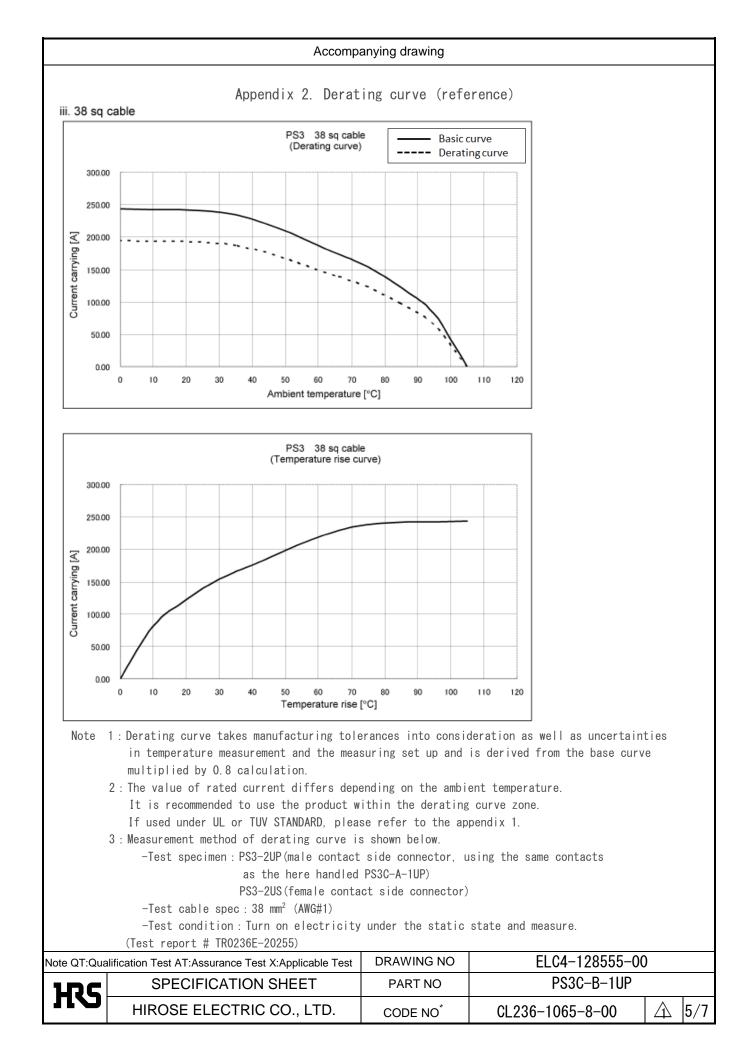
-Between screws (attacehd with power contact) and panel

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

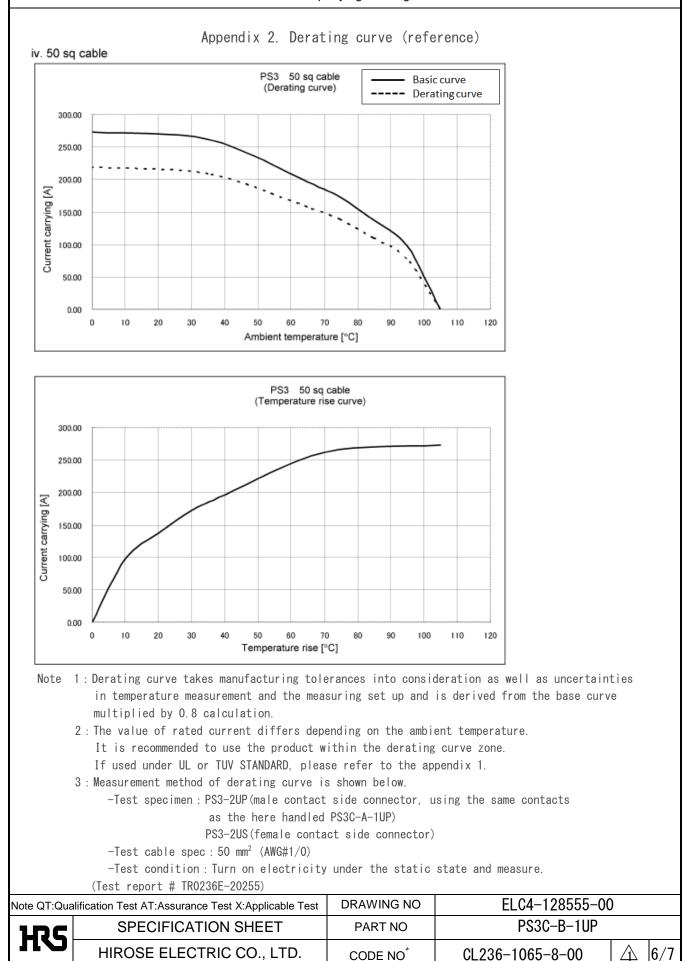


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Accompanying drawing



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)
14mm² , AWG#5	100A	100A	100A
22mm² , AWG#3	100A	100A	125A
38mm² , AWG#1	150A	125A	190A
50 mm ² , AWG#1/0	150A	150A	210A

Note QT:Qualification Test AT:Assurance Test X:Applicable Test	DRAWING

