APPLICABLE	STANDARD		UL, C-UL STANDAR		JV STAN	DARD : E5	02564	66 (Appendix 1)		
	Operating temperature range		(Included temperature rise caused by current-carrying) range Power: (Appendix 1)		•	age temperature e		<ul> <li>e -40 °C to +60 °C (Note 2)</li> <li>Power: 150A (UL, C-UL, TUV) (Appendix 1) :210A (Derating curve: 25°C) (Appendix 2) :% The Rating Current for each applicable win size can be found in table 3.</li> </ul>		
RATING Voltage Applicable wire		wire			Current		•			;)
			SPEC	IFICATION	1S					
I	TEM		TEST METHOD				REQ	UIREMENTS	QT	AT
CONSTRU					<b>I</b>					
General Exami	nation	-	and by measuring instrument.		Accord	ng to dr	awıng.		Х	Х
Marking			visually.						Х	Х
Contact Resis			nes		0.3 m (	MAY				
		DC 1 A				3 mΩ MAX.			Х	Х
Insulation Re		250 V DC	tor 1 min.		5000 M		husele	da	Х	
Voltage Proof	CAL CHARA				NO TIAS	shover or	break	aown.	Х	Х
	mating Forces		by applicable connector at a s	peed of	Mating	force :	98 N	MAX.	х	_
		30 mm ± 3				ng force			_	
Mechanical Op	eration	100 times	insertions and extractions at	a speed of 600		0		change: 0.5 mΩ MAX.	X	
		times/hou			0 0011			nd looseness of parts.	X	
Vibration		at 5 min/	: 10 to 55 Hz, singe amplitud cycle, 10 cycles each in 3 ax in total.		-			ontinuity of 10 μs. nd looseness of parts.	х	-
Shock		490 m/s <sup>2</sup>	duration of pulse 11 ms for 3 t	imes	-				х	_
	IENTAL CH		axial directions.							
			$re -40 \rightarrow 105 \ ^{\circ}C$		① Con	tact resi	stance	change:0.5 mΩ MAX.	х	_
Rapid Change	of Temperature	Conduct !	$30 \rightarrow 30 \text{ min}$ transfer time is 2 to 3 min. cycles of above cycles(mated) sed in the room temperature for		② Ins	ulation r	esista	nce : 1000 M $\Omega$ MIN. Ind looseness of parts.		
Humidity Life		After exp	posure at temperature $40\pm2$ °C, 96 h. (mated), exposed at room	humidity 90 to	② Ins	ulation r	esista	e change:0.5 mΩ MAX. nce : 1000 MΩ MIN. nd looseness of parts.	x	-
Heat Resistan	ce		posure at temperature 105±2 °C, for 96 h(mated), exposed at ro 2 hour.	om temperatrur	e ② Ins	ulation r	esista	e change: 0.5 mΩ MAX. nce : 1000 MΩ MIN. nd looseness of parts.	X	-
COUN	т р	ESCRIPTI	ON OF REVISIONS	DESI	GNED			CHECKED	DA	TE
<u>↑</u> 1			-E-00000869		RIHARA			AH. KODAMA		4. 14
REMARK	e operation te		ncludes the temperature rise b			APPROV	'ED	NM. NISHIMATSU		5. 28
(Note 2) Storage temperature range shows storage condition for unused products including packing materials. Follow the operating temperature range for storage condition after mounting.				CHECKE			NM. NISHIMATSU		5. 28	
Unless otherwise specified, refer to IEC 60512.				DESIGN DRAWN	IED	WR. YAMADA WR. YAMADA		5.23		
Note QT:Qualification Test AT:Assurance Test X:Applicable Test							14. 05. 23			
								ELC4-128047-01		
RS			CATION SHEET		PART NO.		PS3-2US		4/0	
			$\_$ OTINO $\bigcirc$ $\bigcirc$ , $\Box$ $]$ $D$ .	CODE	UN	1 G	∟∠≾t	6-1041-0-00	/1\	1/8

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

	M TEST METHOD		REQUIREMENTS	QT	AT
ENVIRONME	NTAL CHARACTERISTICS	·			
old Resistance		hour. 2 Insul	ct resistance change:0.5 mΩ MAX. ation resistance : 1000 MΩ MIN. mage, crack and looseness of parts.	Х	
orrosion Salt	Mist After exposure in 35±2°C, 5±1% salt v 48±4 h(mated), washed with water, dried	water spray for No heavy	corrosion that lose function.	X	-
		1			
	fication Test AT:Assurance Test X:Applicable Test SPECIFICATION SHEET	DRAWING NO PART NO	ELC4-128047-0 PS3-2US	1	

FOI

Accompanying	drawing
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## 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)	60	VO	
Current rating	100A	150A	
Cable	14 to 22sq AWG#5 to AWG#3 (*1)	38 to 50sq AWG#1 to AWG#1/0 (*1)	
Creepage distance(*2)	MIN:3.2mm		
Clearance distance(*2)	MIN:3.2mm		

Table 2. TUV conditon

	Condition I	Condition I	Condition II			
Current voltage(AC/DC)	800 V	600V	1000V			
	100A(cable 14 to 22sq , AWG#5 to AWG#3 *1)					
Current rating	125A(cable 38sq , AWG#1 *1)					
	150A(cable 50sq , AWG#1/0 *1)					
Over voltage category	П	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 2280 . 515 C 2805 R22-0
- Cable 38sq : Manufactured by NICHIFU CO., LTD R38-6S
- Cable 50sq : Manufactured by NICHIFU CO., LTD R60-6S

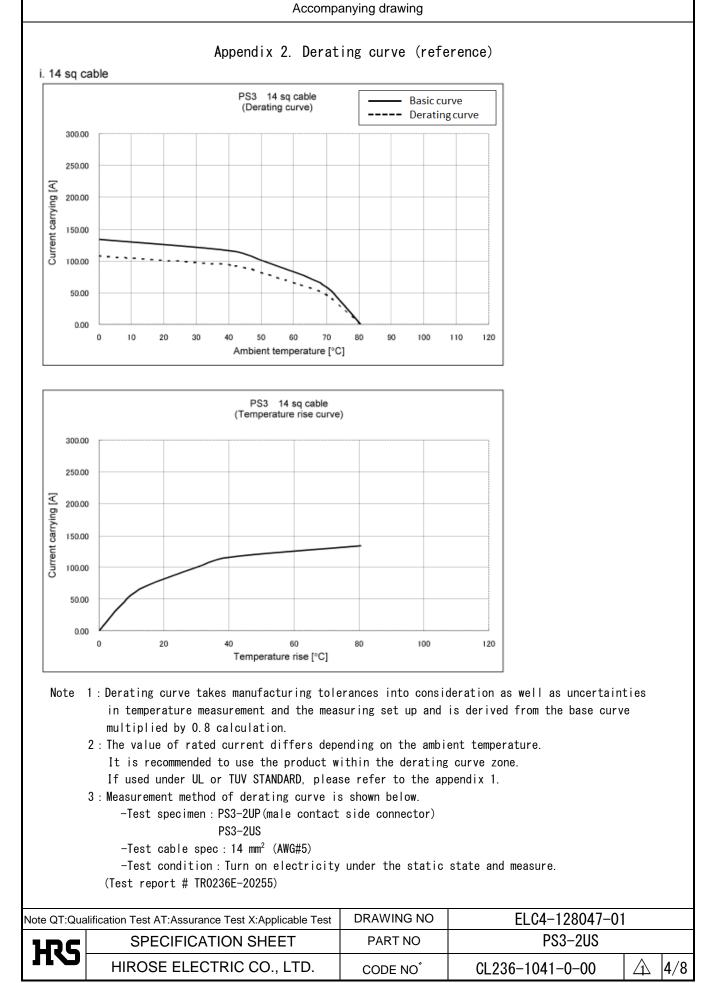
\*2: The coverage of the creepage distance and the clearance distance is as follows.

-Between crimp terminals

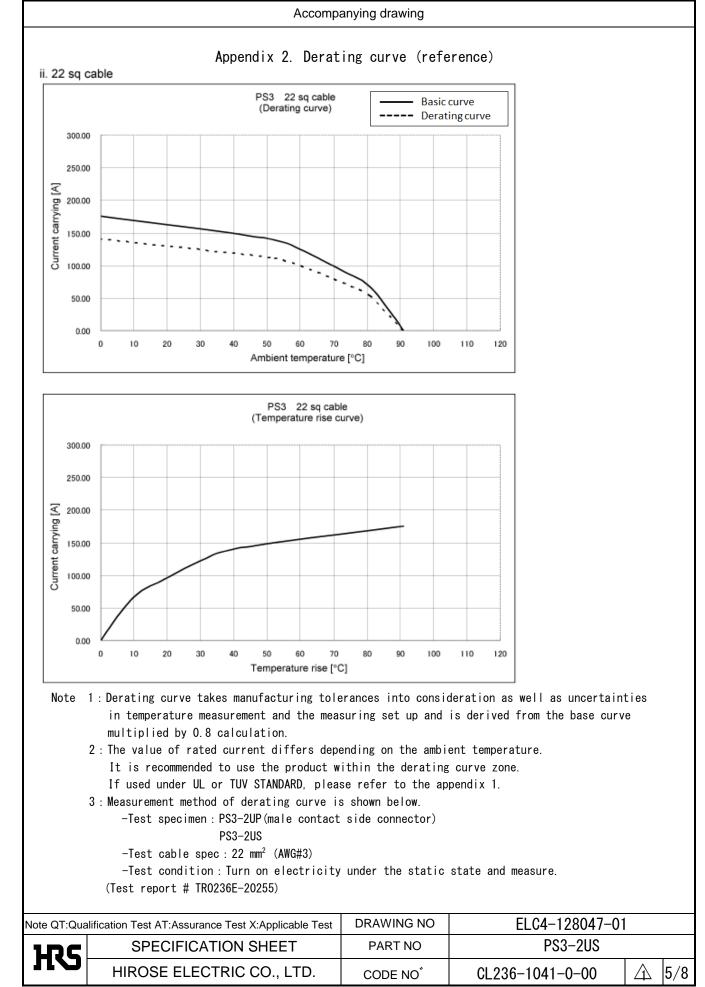
- -Between power contact and panel
- -Between crimp terminal and panel

-Between screws (attacehd with power contact) and panel

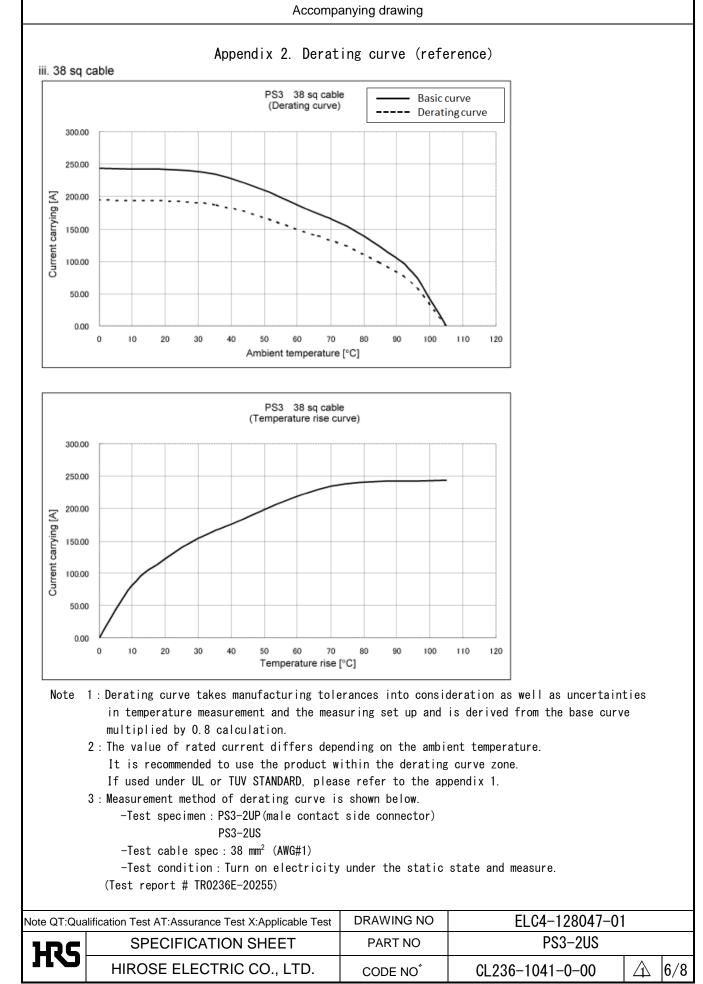
Note QT:Qualification Test AT:Assurance Test X:Applicable Test		DRAWING NO	ELC4-128047-01		
црс	SPECIFICATION SHEET	SPECIFICATION SHEET PART NO PS3-2US			
	HIROSE ELECTRIC CO., LTD.	CODE NO <sup>°</sup>	CL236-1041-0-00		3/8



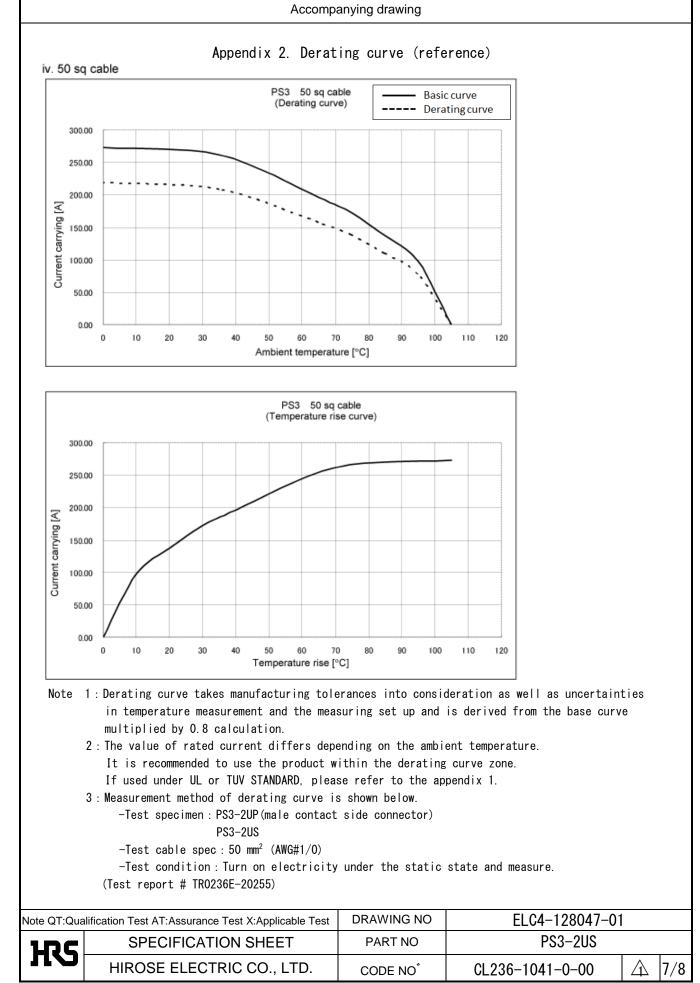
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## Accompanying drawing

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)
<b>14mm<sup>2</sup></b> , AWG#5	100A	100A	100A
<b>22mm<sup>2</sup></b> , <b>AWG#3</b>	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	ELC4-128047-01		
JDC	SPECIFICATION SHEET	PART NO	PS3-2US		
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