

APPLICABLE STANDARD														
Rating	Operating Temperature Range	-40 °C to +105 °C Include Temperature Rise Caused by Current-carrying	Storage Temperature Range	-40 °C to 60 °C (Note 1)										
	Voltage	AC,DC 600 V AC,DC 1500 V (Note 2)	Current	300A(UL,C-UL,TUV) (Appendix 1) 430A(Derating curve : 25°C) (Appendix 2)										
	Busbar Thickness	5.88 to 6.45												
SPECIFICATIONS														
ITEM		TEST METHOD		REQUIREMENTS										
CONSTRUCTION														
General Examination		Visually and by measuring instrument.		According to drawing.										
Marking		Confirmed visually.		X	X									
ELECTRIC CHARACTERISTICS														
Contact Resistance		DC 1 A.		0.5 mΩ max.	X X									
MECHANICAL CHARACTERISTICS														
Insertion and Extraction Force		Measured by applicable busbar.		Insertion force : 50 N max. Extraction force : 3 N min.	X —									
Mechanical Operation		50 times Insertions and extractions.		1)Contact resistance: 0.7 mΩ max. 2)No damage, crack and looseness of parts.	X —									
Vibration		Frequency 10 to 55 hz, single amplitude 0.75 mm, 3 axial directions, 10 cycles each.		1) No electrical discontinuity of 10 μs. 2) No damage, crack and looseness of parts.	X —									
Shock		490 m/s ² duration of pulse 11 ms at 3 times for 3 both axial directions.			X —									
ENVIRONMENTAL CHARACTERISTICS														
Humidity		Exposed at +40 °C, 90 to 95 % , 96 h		1)Contact resistance: 0.7 mΩ max. 2)No damage, crack and looseness of parts.	X —									
Rapid Change of Temperature		Temperature -40 → 105 °C Time 30 → 30 min under 5 cycles. chamber transfer time is 2 to 3 min.		1)Contact resistance: 0.7 mΩ max. 2)No damage, crack and looseness of part	X —									
Dry Heat		Exposed at 105±2 °C for 96 h.		1)Contact resistance: 0.7 mΩ max. 2)No damage, crack and looseness of part	X —									
Cold		Exposed at -40±2 °C for 96 h.		1)Contact resistance: 0.7 mΩ max. 2)No damage, crack and looseness of part	X —									
Corrosion Salt Mist		Exposed in 5% salt water spray for 48 h.		Contact resistance: 0.7 mΩ max.	X —									
	COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE									
△														
REMARK (Note 1) Storage temperature range shows storage condition for unused products including packing materials. Follow the operating temperature range for storage condition after mounting. (Note 2) The table below related to creepage distance of the copper bar's and voltage in the case of basic insulation. <table><tr><th>Voltage</th><th>Pollution degree2</th><th>Pollution degree 3</th></tr><tr><td>600V (※1)</td><td>6.3 mm</td><td>10 mm</td></tr><tr><td>1500V (※2)</td><td>15 mm</td><td>25 mm</td></tr></table> ※1. This dimension is specified by IEC(EN) 61984 follows the overvoltage category IV. ※2. Because rated voltage in IEC(EN) 61984 is specified only up to 1000 V, Hirose calculates the creepage distance for 1500 V. Depending on surrounding environment or required specification, please ask customers to change the creepage distance. Unless otherwise specified, refer to IEC 60512.			Voltage	Pollution degree2	Pollution degree 3	600V (※1)	6.3 mm	10 mm	1500V (※2)	15 mm	25 mm	APPROVED	MN. KENJO	20220711
Voltage	Pollution degree2	Pollution degree 3												
600V (※1)	6.3 mm	10 mm												
1500V (※2)	15 mm	25 mm												
CHECKED	KG. OKITA	20220711												
DESIGNED	MO. SHIMOYAMA	20220708												
DRAWN	MO. SHIMOYAMA	20220708												
Note QT:Qualification Test AT:Assurance Test X:Applicable Test			DRAWING NO.		ELC-398502-00-00									
HS	SPECIFICATION SHEET		PART NO.	PS4A-6. 35T-F19										
	HIROSE ELECTRIC CO., LTD.		CODE NO.	CL0236-1089-0-00	△	1/2								

Accompanying drawing

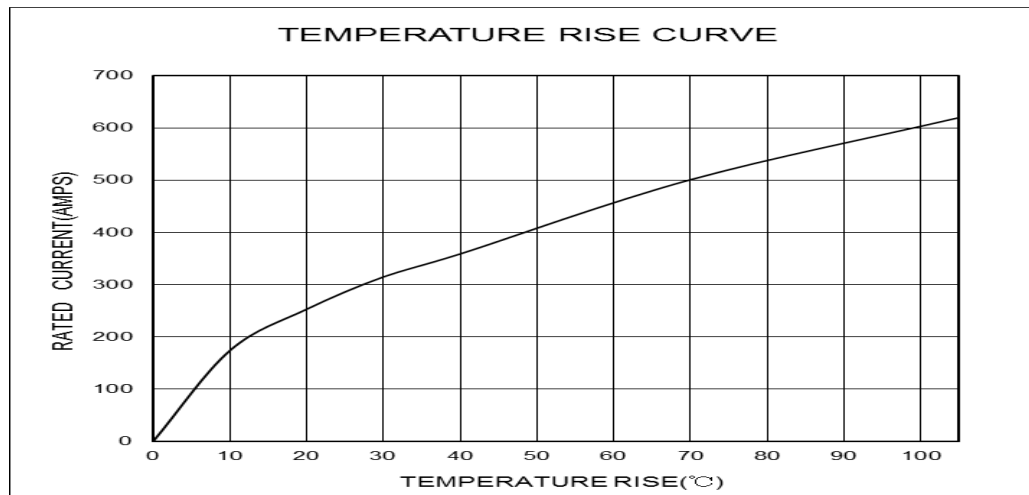
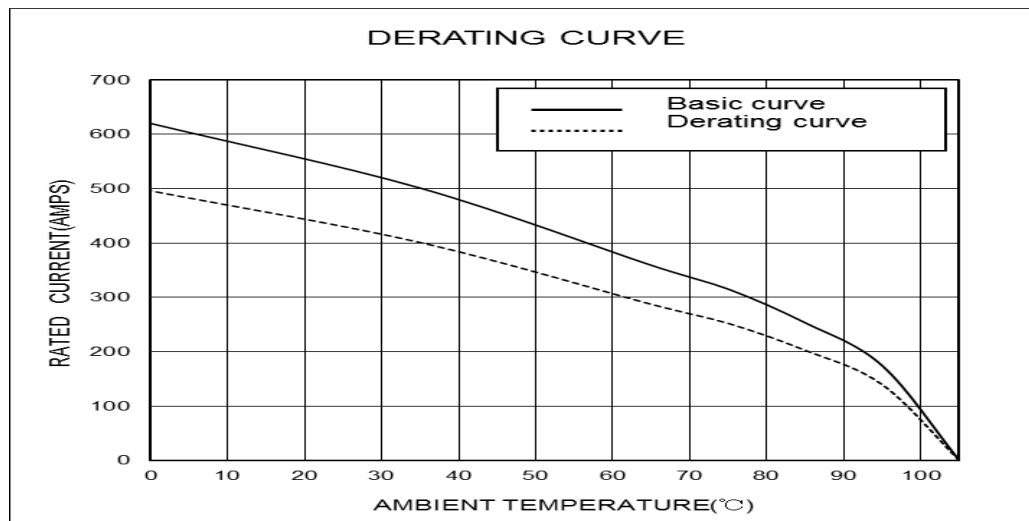
Appendix 1. Condition of safety standard(UL、C-UL、TUV STANDARD)

This item got approved by safety standard(UL、C-UL、TUV STANDARD)under the condition of table 1.

Table 1. UL、C-UL condition

	Condition
Voltage rating(AC/DC)	600 V
Current rating	300 A
Bus bar thickness	6.35 mm

Appendix 2. Derating curve and temperature rise curve (reference)



Note 3 Derating curve in derating curve is a curve gained by multiplying electric current values in basic curve by a derating coefficient of 0.8.

4 The value of rated current differs depending on the ambient temperature.

It is recommended to use the product within the derating curve zone.

If used under UL or TUV STANDARD, please refer to the appendix 1.


5 Measurement method of derating curve is shown below.

• Bus bar : 60×90×6 mm (for PS4-6.35T)

• Base bus bar : 35×125×10 mm

• Test condition : Turn on electricity under the static state and measure.

(Test report # TR0236E-20437)

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