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In case of consideration for using Automotive equipment / device which demand high reliability, kindly contact our sales window correspondents.

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	150A(UL,C-UL,TUV) (Appendix 1) 400A(Derating curve : 25°C) (Appendix 2)										
	Busbar Thickness	2.92 to 3.275													
SPECIFICATIONS															
ITEM	TEST METHOD			REQUIREMENTS	QT	AT									
CONSTRUCTION															
General Examination	Visually and by measuring instrument.			According to drawing.	X	X									
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 <sup>2</sup> 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.			APPROVED	MN. KENJO	20220711									
	<table border="1"> <thead> <tr> <th>Voltage</th> <th>Pollution degree2</th> <th>Pollution degree 3</th> </tr> </thead> <tbody> <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> </tbody> </table>			Voltage	Pollution degree2	Pollution degree 3	600V (※1)	6.3 mm	10 mm	1500V (※2)	15 mm	25 mm	CHECKED	KG. OKITA	20220711
Voltage	Pollution degree2	Pollution degree 3													
600V (※1)	6.3 mm	10 mm													
1500V (※2)	15 mm	25 mm													
	※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.			DESIGNED	MO. SHIMOYAMA	20220708									
	Unless otherwise specified, refer to IEC 60512.			DRAWN	MO. SHIMOYAMA	20220708									
Note	QT:Qualification Test AT:Assurance Test X:Applicable Test			DRAWING NO.	ELC-398503-00-00										
	SPECIFICATION SHEET			PART NO.	PS4A-3. 175T-F19										
	HIROSE ELECTRIC CO., LTD.			CODE NO.	CL0236-1090-0-00		1/2								

## Accompanying drawing

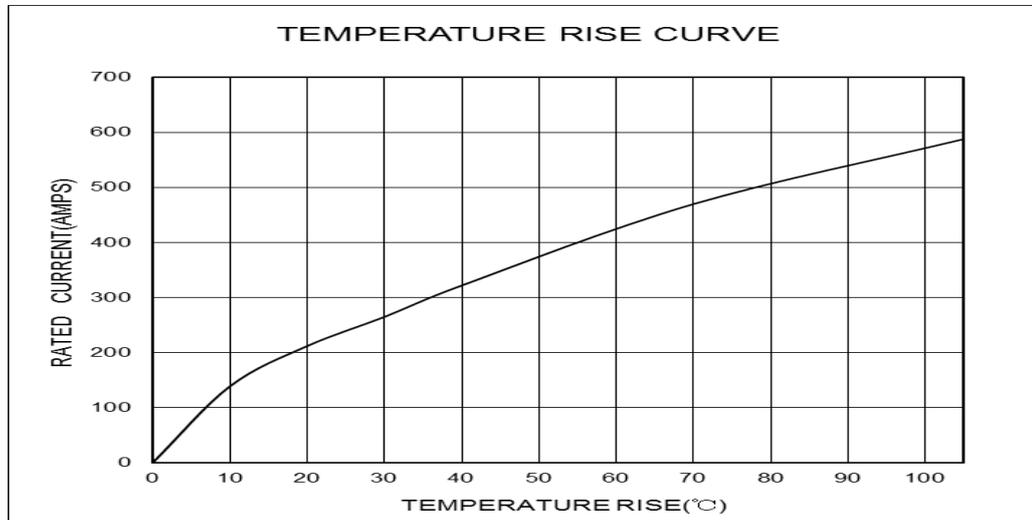
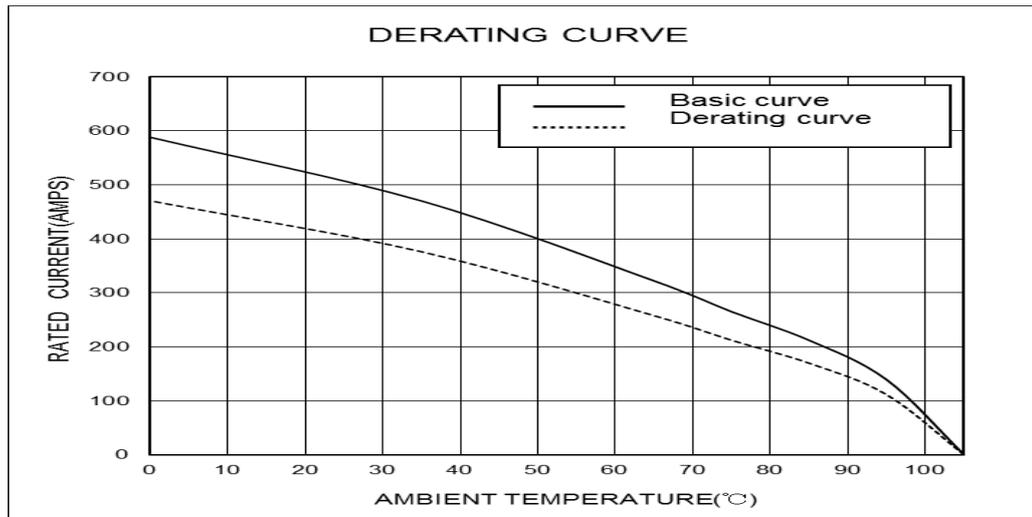
### Appendix 1. Condition of safety standard(UL、C-UL、TUV STANDARD)

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	150 A
Bus bar thickness	3.175 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 : 60×90×3 mm (for PS4-3.175T)
- Base bus bar : 35×125×10 mm
- Test condition : Turn on electricity under the static state and measure.  
(Test report # TR0236E-20437)

<p>Note QT:Qualification Test AT:Assurance Test X:Applicable Test</p>	DRAWING NO. ELC-398503-00-00	
<b>HRS</b>	SPECIFICATION SHEET	PART NO. PS4A-3.175T-F19
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