















Applicable standard					
Rating	Operating temperature range 	-55°C to + 85°C (Note 1)	Storage temperature range	-10°C to + 60°C (Note 3)	
	Operating humidity range 	20% to 80% (Note 2)	Storage humidity range 	40% to 70% (Note 3)	
	Voltage	1000V AC/DC	Applicable connector 	DF22-* (D) EP-7. 92C DF22#-* (D) EP-7. 92C	
	Current (* 1) 	AWG14 : 20A AWG16 : 15A	Applicable cable	UL1430/UL1007 : AWG14, AWG16	
	Rated voltage	Rated current	Insulation group	IP-Protectio method	
UL	AC 600V	AWG14:26A/AWG16:21A (At ambient temp. 25°C) (Note 5)	—	—	
C-UL	AC 600V	See above (*1) (Temp. rise up 30°C MAX)	—	—	
TUV	AC 600V	See above (* 1)	II	IPOO	
Specifications					
Item	Test method		Requirements	QT	AT
General examination	Visually and by measuring instrument.		According to drawing.	X	X
Marking	Confirmed visually.			X	X
Electric characteristics					
Contact resistance	20mV MAX, 1mA (DC OR 1000 Hz).		5mΩ MAX.	X	—
<Delete> 					
<Delete> 					
Mechanical characteristics					
Mechanical operation	30 times insertions and extractions.		① Contact resistance: 10 mΩ MAX. ② No damage, crack or looseness of parts.	X	—
Vibration	Frequency 10 to 55 Hz, single amplitude 0.75 mm, at 2 h, for 3 directions.		① No electrical discontinuity of 1 μs. ② No damage, crack or looseness of parts.	X	—
Shock	490 m/s ² duration of pulse 11 ms at 3 times for 3 directions.			X	—
Environmental characteristics					
Rapid change of temperature	Temperature -55 → 5 to 35 → +85 → 5 to 35 °C Time 30 → 5 max → 30 → 5 max min Under 5 cycles.		① Contact resistance: 10 mΩ MAX. <Delete>  ② No damage, crack or looseness of parts.	X	—
Damp heat (Steady state)	Exposed at 40 ± 2 °C, 90 to 95 %, 96 h.		① Contact resistance: 10 mΩ MAX. <Delete>  ② No damage, crack or looseness of parts.	X	—
Remarks 	<p>Note 1: Include the temperature rising by current.</p> <p>Note 2: No condensing</p> <p>Note 3: Apply to the condition of long term storage for unused products before mount on pcb, After mounted on pcb, operating temperature and humidity range is applied for interim storage during transportation.</p>				
	Count	Description of revisions	Designed	Checked	Date
	16	DIS-H-00002612	TS. KUMAZAWA	TS. FUKUSHIMA	17. 07. 10
Unless otherwise specified , refer to IEC 60512.			Approved	KJ. KATAYOSE	05. 01. 05
			Checked	TY. OMA	05. 01. 05
			Designed	HK. UMEHARA	05. 01. 05
			Drawn	HK. UMEHARA	05. 01. 05
Note QT: Qualification Test AT: Assurance Test X: Applicable Test			Drawing no.		ELC4-163621-00
	Specification sheet		Part no.	DF22-1416PCF	
	Hirose electric co., ltd.		Code no.	CL680-1078-0-00	 1/6



(Note 4) Derating curve takes manufacturing tolerances into consideration as well as uncertainties in temperature measurement and the measuring set up and is derived from the basic curve multiplied by 0.8 calculation.

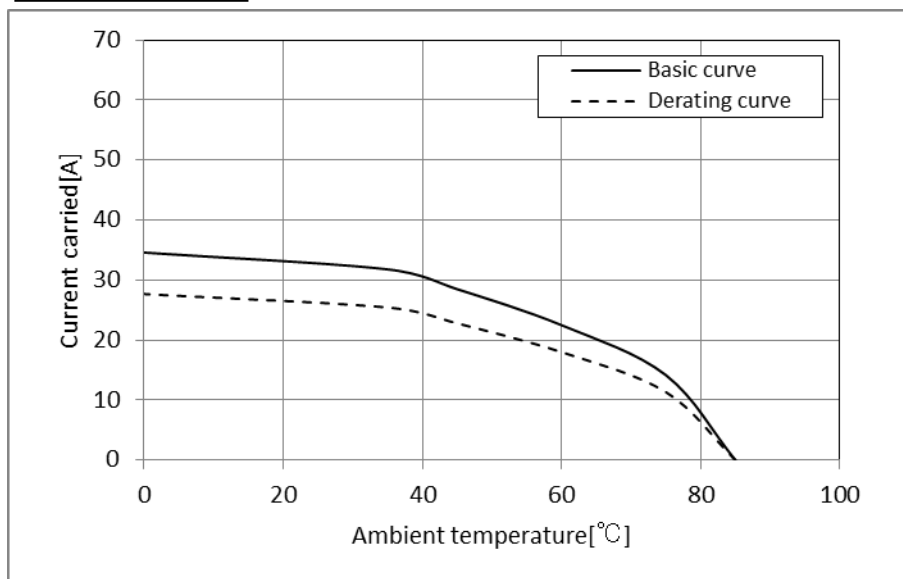
(Note 5) The value of rated current differs depending on the ambient temperature. It is recommended to use the product within the derating curve zone.

(Note 6) Measurement method of derating curve is shown below.

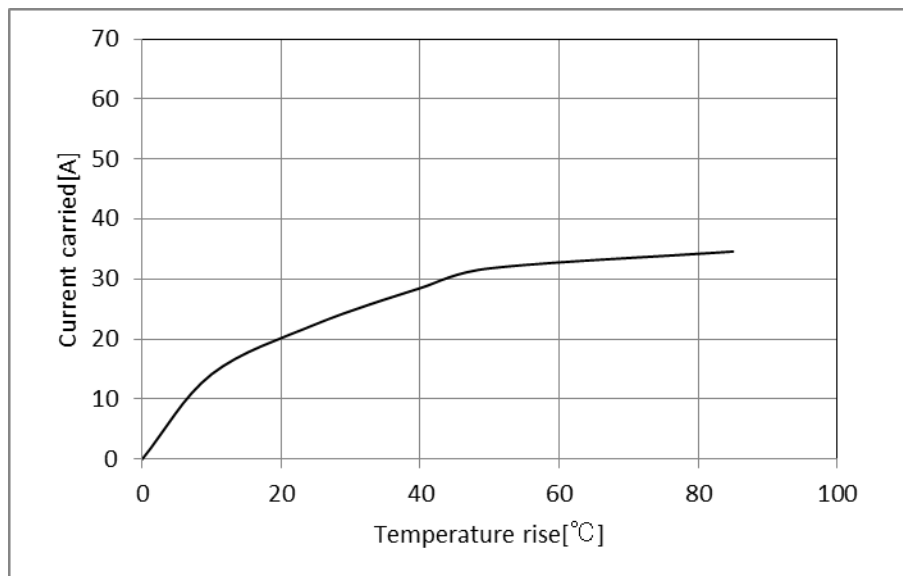
- Test specimen: Unused DF22-1P-7.92DSA(05).
 Unused DF22-1S-7.92C(28)
 Unused DF22A-1416SCF
- Test cable spec: AWG 14
- Test condition: Turn on electricity under the static state and measure.
 (Test report # TR680E-20855)

[Reference]

Derating curve



Temperature rise curve



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

Drawing no.

ELC4-163621-00



Specification sheet

Part no.

DF22-1416PCF

Hirose electric co., ltd.

Code no.

CL680-1078-0-00



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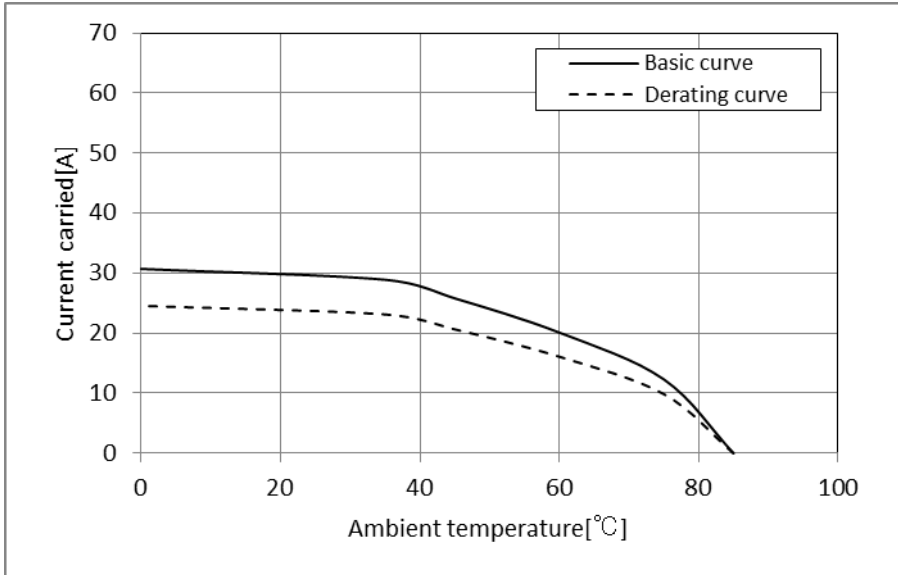


(Note 7) Measurement method of derating curve is shown below.

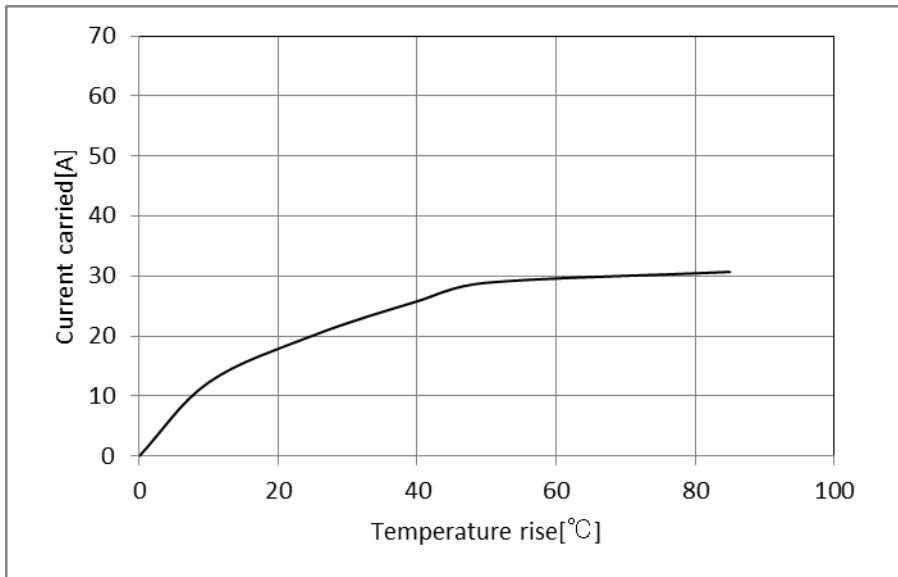
- Test specimen: Unused DF22-3P-7.92DS(05).
Unused DF22-3S-7.92C(28)
Unused DF22A-1416SCF
- Test cable spec: AWG 14
- Test condition: Turn on electricity under the static state and measure.
(Test report # TR680E-20855)

[Reference]

Derating curve



Temperature rise curve



Note QT:Qualification Test AT:Assurance Test X:Applicable Test		Drawing no.		ELC4-163621-00	
HRS	Specification sheet		Part no.	DF22-1416PCF	
	Hirose electric co., ltd.		Code no.	CL680-1078-0-00	3/6

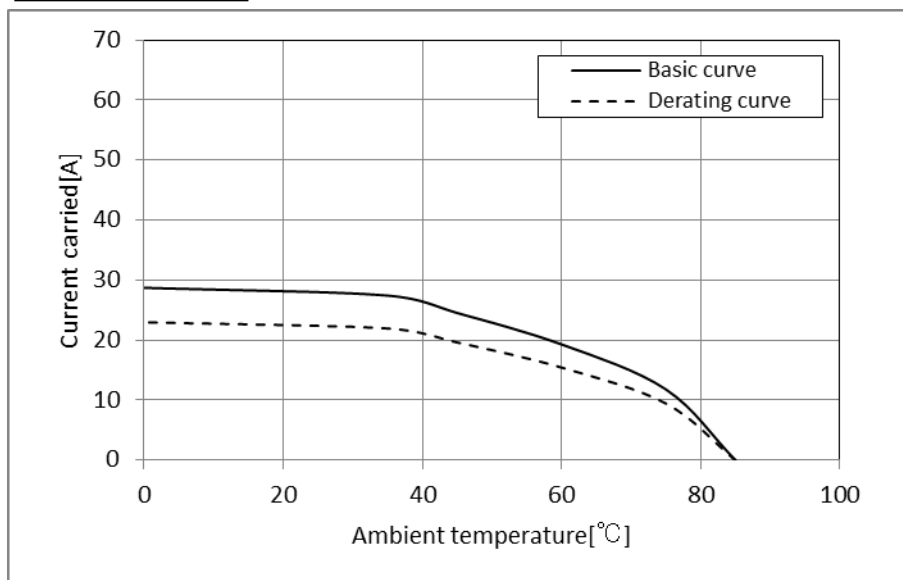


(Note 8) Measurement method of derating curve is shown below.

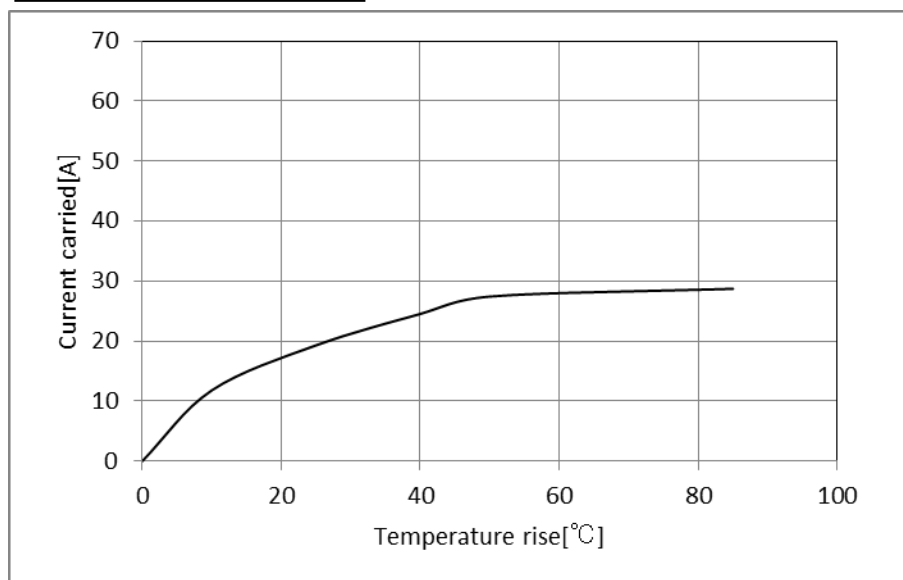
- Test specimen: Unused DF22-5P-7.92DS(05).
Unused DF22-5S-7.92C(28)
Unused DF22A-1416SCF
- Test cable spec: AWG 14
- Test condition: Turn on electricity under the static state and measure.
(Test report # TR680E-20855)

[Reference]

Derating curve



Temperature rise curve



Note	QT:Qualification Test AT:Assurance Test X:Applicable Test	Drawing no.	ELC4-163621-00		
HRS	Specification sheet	Part no.	DF22-1416PCF		
	Hirose electric co., ltd.	Code no.	CL680-1078-0-00		4/6

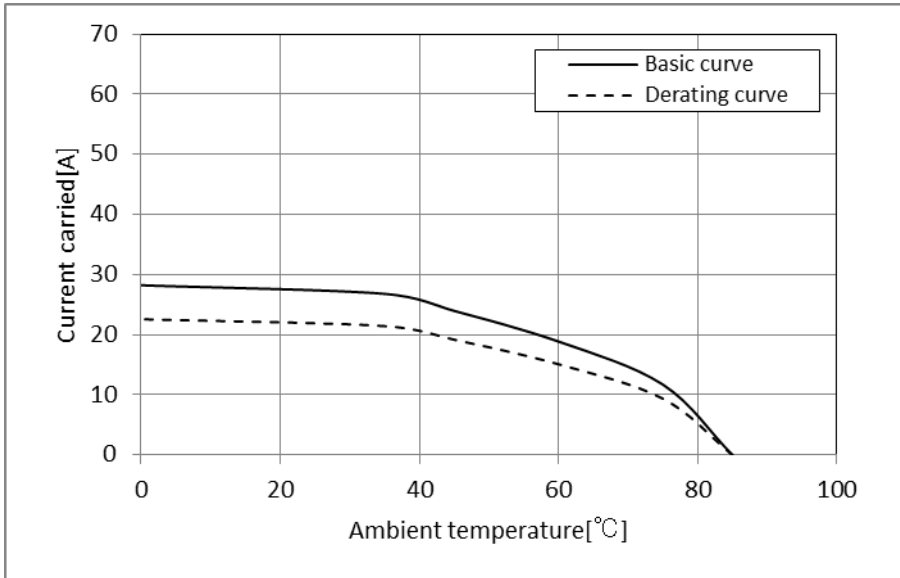


(Note 9) Measurement method of derating curve is shown below.

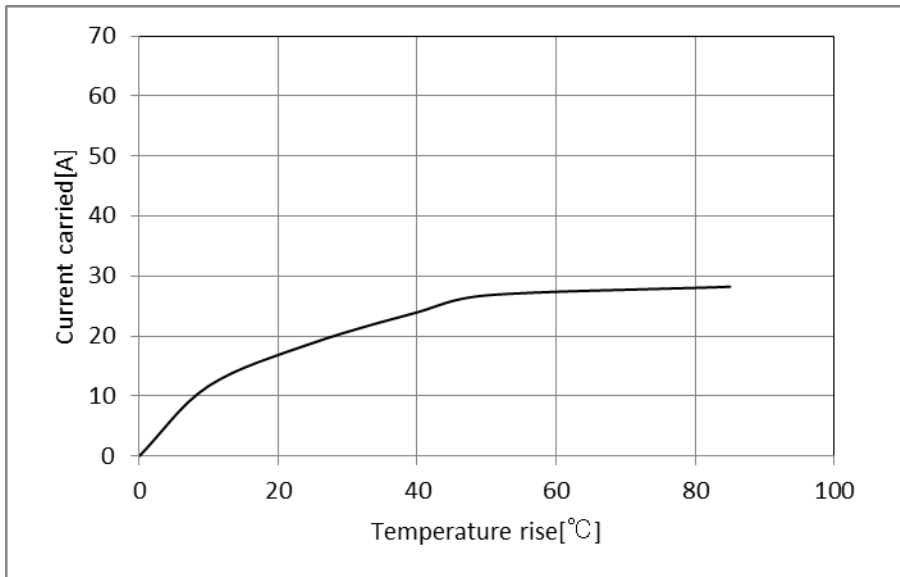
- Test specimen: Unused DF22-3P-7.92DS(05).
Unused DF22-3S-7.92C(28)
Unused DF22A-1416SCF
- Test cable spec: AWG 16
- Test condition: Turn on electricity under the static state and measure.
(Test report # TR680E-20855)

[Reference]

Derating curve



Temperature rise curve



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	Hirose electric co., ltd.		Code no.	CL680-1078-0-00	△ 5/6

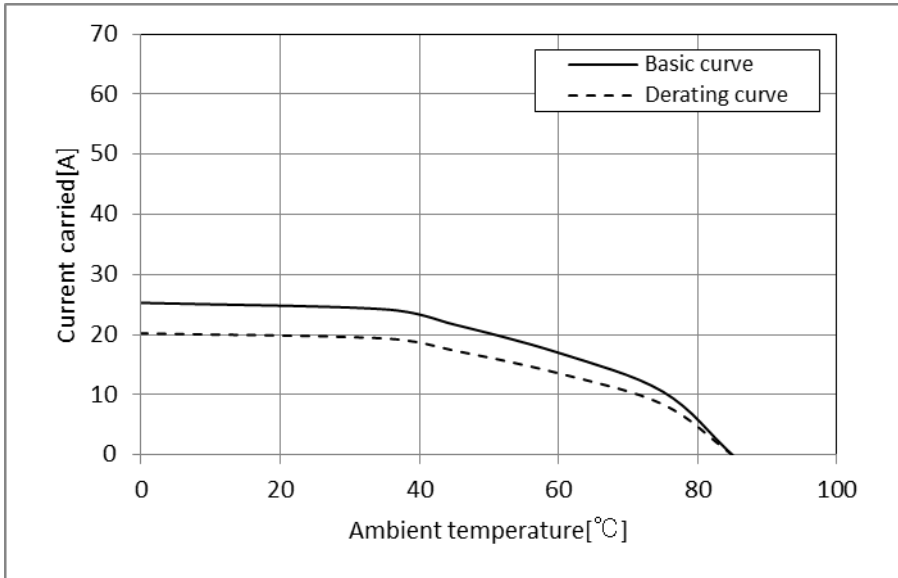


(Note 10) Measurement method of derating curve is shown below.

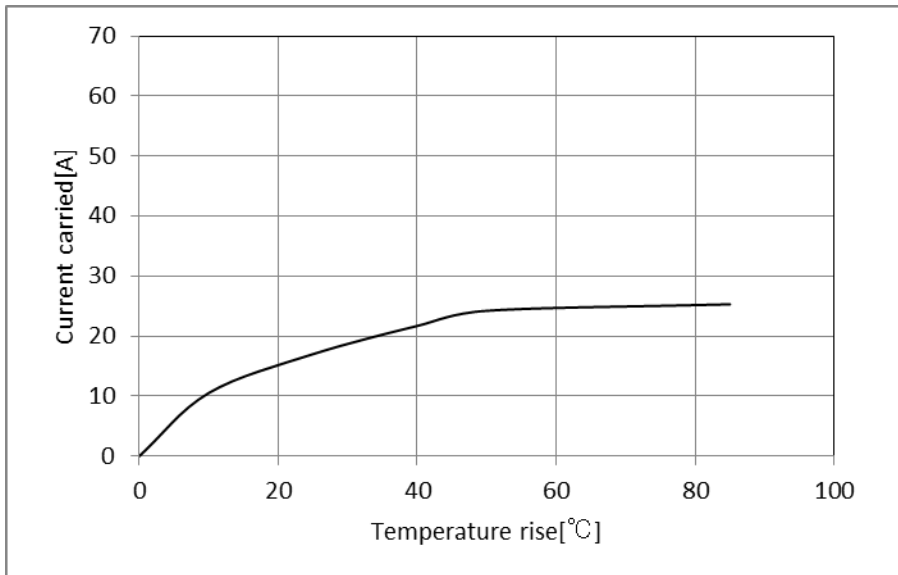
- Test specimen: Unused DF22-5P-7.92DS(05).
 Unused DF22-5S-7.92C(28)
 Unused DF22A-1416SCF
- Test cable spec: AWG 16
- Test condition: Turn on electricity under the static state and measure.
 (Test report # TR680E-20855)

[Reference]

Derating curve



Temperature rise curve



Note QT:Qualification Test AT:Assurance Test X:Applicable Test		Drawing no.		ELC4-163621-00	
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	Hirose electric co., ltd.		Code no.	CL680-1078-0-00	6/6