

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	AC 1000V DC		Applicable connector	DF22#-3S-7. 92C(**) #=Blank, R, L		
	Current(* 1)	AWG10: 25A AWG12: 20A AWG14: 18A AWG16: 15A					
	Rated voltage	 Rated current		Insulation group	IP-Protectio method		
UL	AC 600V	AWG10: 38A/ AWG12: 32A/ AWG14: 23A/ 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
Construction							
General examination		Visually and by measuring instrument.		According to drawing.		X	X
Marking		Confirmed visually.				X	X
Electric characteristics							
Insulation resistance		1000V DC.		1000MΩ MIN.		X	—
Voltage proof		2500V AC for 1 min.		No flashover or breakdown.		X	—
Mechanical characteristics							
Mechanical operation		30 times insertions and extractions.		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.		No damage, crack or looseness of parts.		X	—
Shock		490 m/s ² duration of pulse 11 ms at 3 times for 3 directions.		No damage, crack or looseness of parts.		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 Insulation resistance: 1000MΩ MIN. ② No damage, crack or looseness of parts.		X	—
Damp heat (Steady state)		Exposed at 40 ± 2 °C, 90 to 95 %, 96 h.		① Insulation resistance: 500MΩ MIN. ② No damage, crack or looseness of parts.		X	—
Remarks Note 1: Include the temperature rising by current. Note 2: No condensing 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.							
	Count	Description of revisions	Designed	Checked		Date	
	1	DIS-H-00002668	TS. KUMAZAWA	TS. FUKUSHIMA		17. 07. 08	
Unless otherwise specified , refer to IEC 60512.				Approved	TS. SAKATA	08. 09. 08	
				Checked	TS. KUMAZAWA	08. 09. 08	
				Designed	KT. ISHII	08. 09. 08	
				Drawn	KT. ISHII	08. 09. 08	
Note QT: Qualification Test AT: Assurance Test X: Applicable Test			Drawing no.		ELC4-312429-01		
	Specification sheet		Part no.	DF22-3RS/P-7. 92			
	Hirose electric co., ltd.		Code no.	CL680-1210-6-00			1/5

(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.

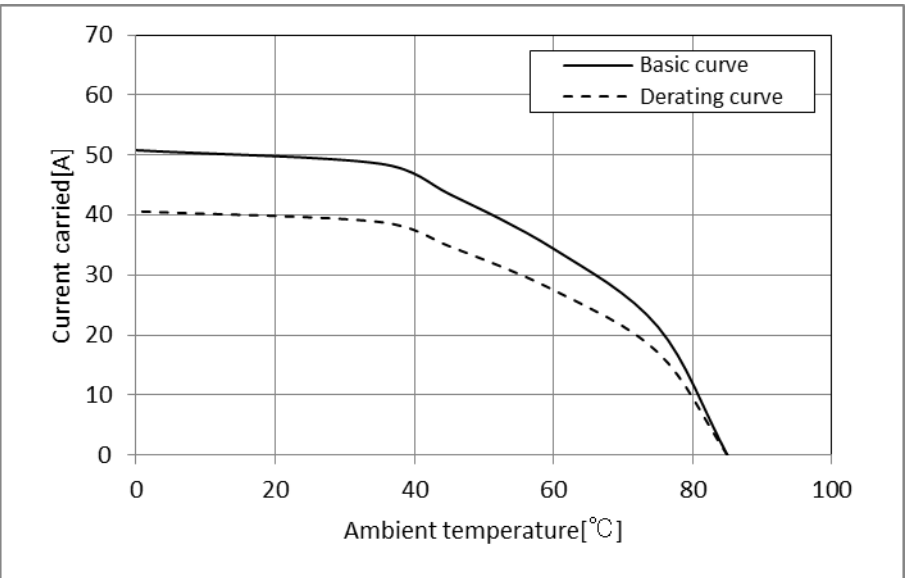
(Note 5) The value of rated current differs depending on the ambient temperature. It is recommended to use the product within the derating curve zone.

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

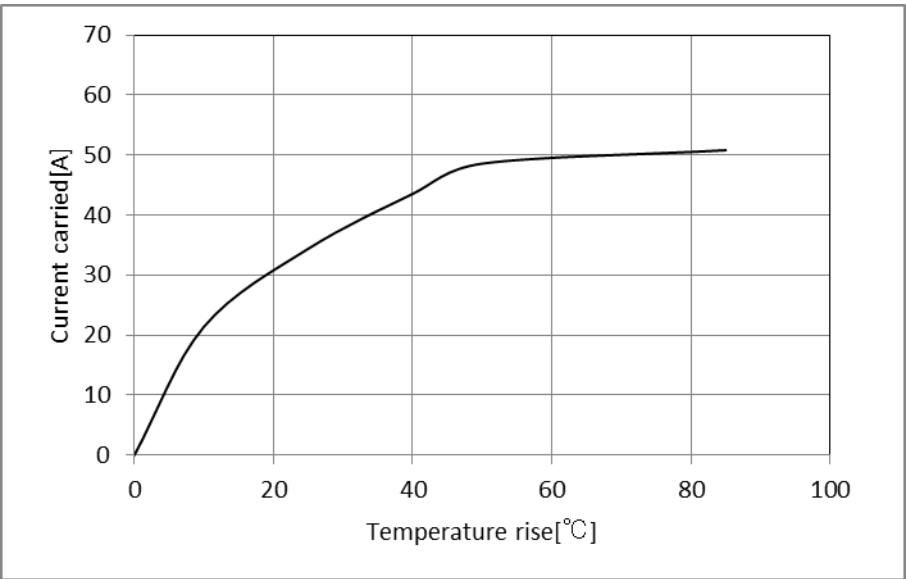
- Test specimen: Unused DF22-3P-7.92DS(05).
Unused DF22-3S-7.92C(28)
Unused DF22A-1012SCF
- Test cable spec: AWG 10
- Test condition: Turn on electricity under the static state and measure.
(Test report # TR680E-20855)

[Reference]

Derating curve



Temperature rise curve



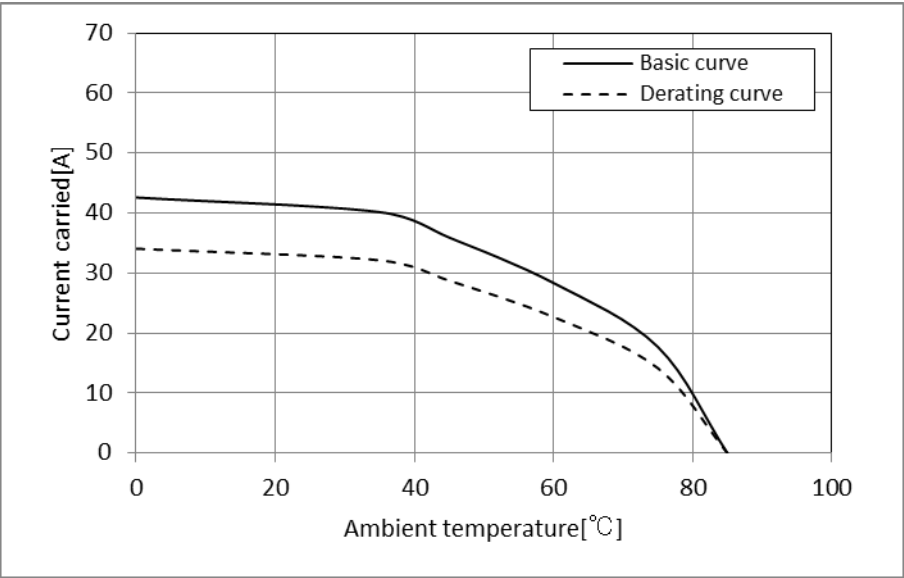
Note QT:Qualification Test AT:Assurance Test X:Applicable Test		Drawing no.		ELC4-312429-01	
	Specification sheet		Part no.	DF22-3RS/P-7.92	
	Hirose electric co., ltd.		Code no.	CL680-1210-6-00	2/5

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

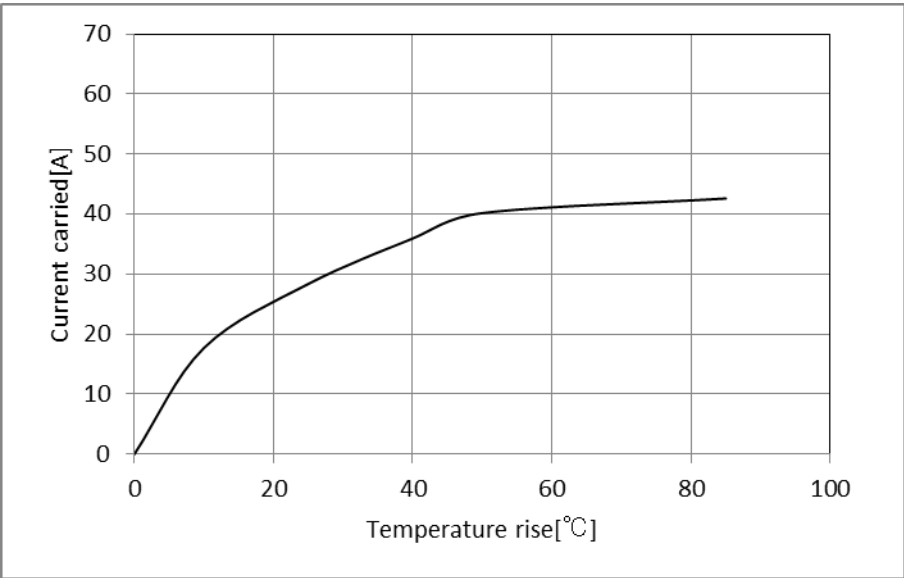
- Test specimen:Unused DF22-3P-7.92DS(05).
Unused DF22-3S-7.92C(28)
Unused DF22A-1012SCF
- Test cable spec:AWG 12
- Test condition: Turn on electricity under the static state and measure.
(Test report # TR680E-20855)

[Reference]

Derating curve



Temperature rise curve

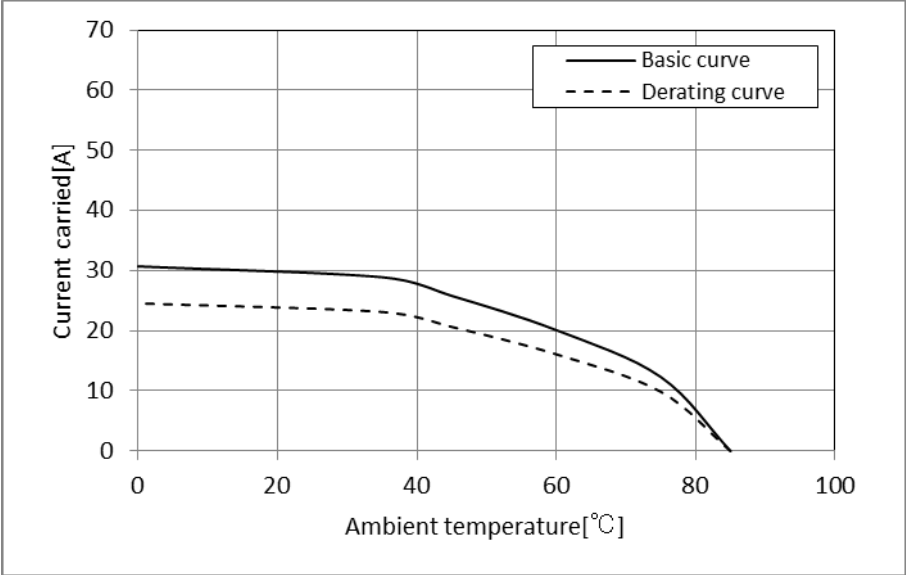


Note QT:Qualification Test AT:Assurance Test X:Applicable Test			Drawing no.		ELC4-312429-01		
	Specification sheet		Part no.	DF22-3RS/P-7. 92			
	Hirose electric co., Ltd.		Code no.	CL680-1210-6-00		3/5	

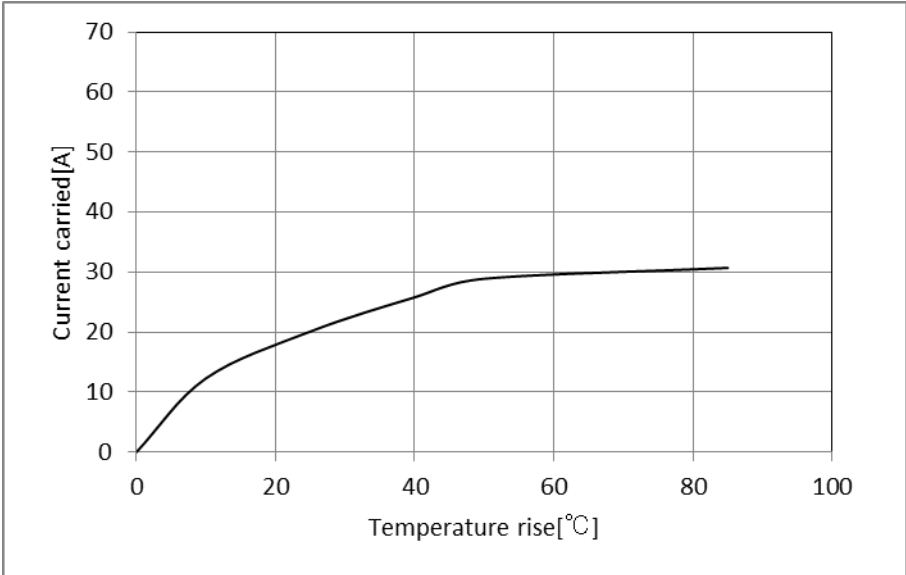
- (Note 8) Measurement method of derating curve is shown below.
- Test specimen:Unused DF22-3P-7.92DS(05).
Unused DF22-3S-7.92C(28)
Unused DF22A-1416SCF
 - Test cable spec:AWG 14
 - Test condition: Turn on electricity under the static state and measure.
(Test report # TR680E-20855)

[Reference]

Derating curve



Temperature rise curve



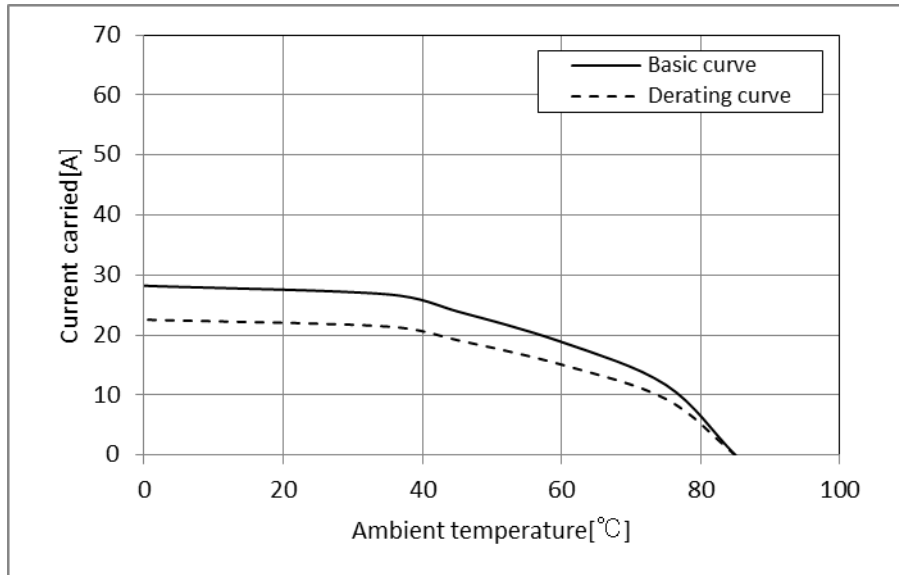
Note QT:Qualification Test AT:Assurance Test X:Applicable Test		Drawing no.		ELC4-312429-01	
	Specification sheet		Part no.	DF22-3RS/P-7. 92	
	Hirose electric co., ltd.		Code no.	CL680-1210-6-00	4/5

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

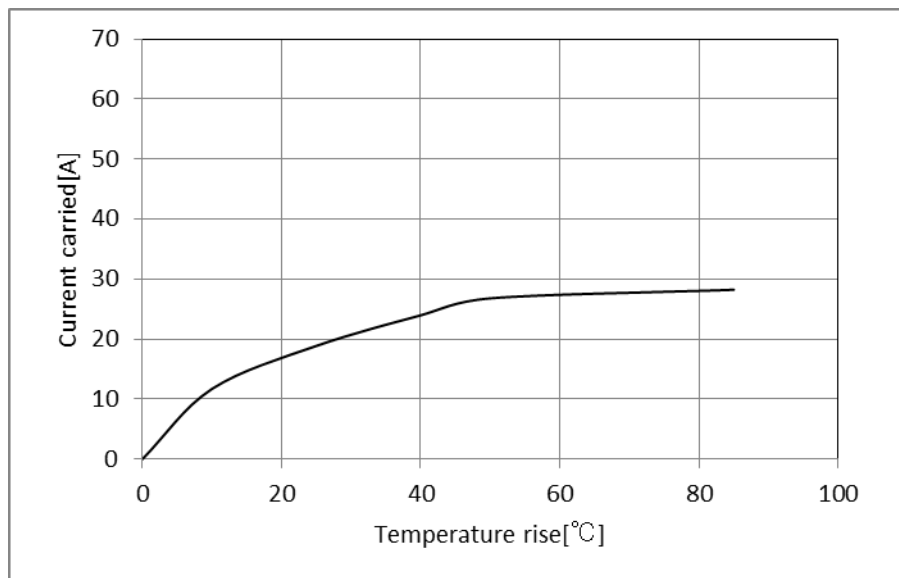
- Test specimen:Unused DF22-3P-7.92DS(05).
Unused DF22-3S-7.92C(28)
Unused DF22A-1416SCF
- Test cable spec:AWG 16
- Test condition: Turn on electricity under the static state and measure.
(Test report # TR680E-20855)

[Reference]

Derating curve



Temperature rise curve



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

Drawing no.

ELC4-312429-01

HRS

Specification sheet

Part no.

DF22-3RS/P-7.92

Hirose electric co., Ltd.

Code no.

CL680-1210-6-00



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