Applicable standard				
Rating	Operating temperature range	-55°C to + 85°C(Note 1)	Storage temperature range	-10°C to + 60°C(Note2)
	Operating humidity range	20% to 80% (Note3)	Storage humidity range	40% to 70%(Note2)
	Voltage	AC 1000V DC	Applicable Connector	DF22#-1S-7.92C(**) #=Blank,R,L
	Current(*1)	AWG10 :30A AWG12 :25A AWG14 :20A AWG16 :15A		

	Rated voltage	Rated current	Insulationgroup	IP-Protectio method
UL	AC 600V	AWG10:43A/AWG12:38A/AWG14:26A/AWG16:21A (At ambient temp.25°C)(Note 5)	—	—
C-UL	AC 600V	See above(*1) (Temp. rise up 30°C MAX)	—	—
TÜV	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
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.		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.	No damage, crack or looseness of parts.	X	–
Damp heat (Steady state)	Exposed at 40 ± 2 °C, 90 to 95 %, 96 h.		X	–

Remarks
Note 1:Including the temperature rising by current.
Note 2: No condensing.
Note 3: Apply to the condition of long term storage for unused products before mounted on PCB.
After mounted on PCB, operation temperature and humidity range is applied for interim storage during transportation.

	Count	Description of revisions	Designed	Checked	Date
△0					

Unless otherwise specifid , refer to IEC 60512.

Approved	HS. OKAWA	17. 08. 22
Checked	TS. FUKUSHIMA	17. 08. 22
Designed	MI. SAKIMURA	17. 08. 22
Drawn	MI. SAKIMURA	17. 08. 22

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

Drawing no. ELC-326966-00-00

HRS	Specification sheet	Part no.	DF22-1RS/P-7. 92	
	HIROSE ELECTRIC CO., LTD.	Code no.	CL680-1213-4-00 △0	1/5

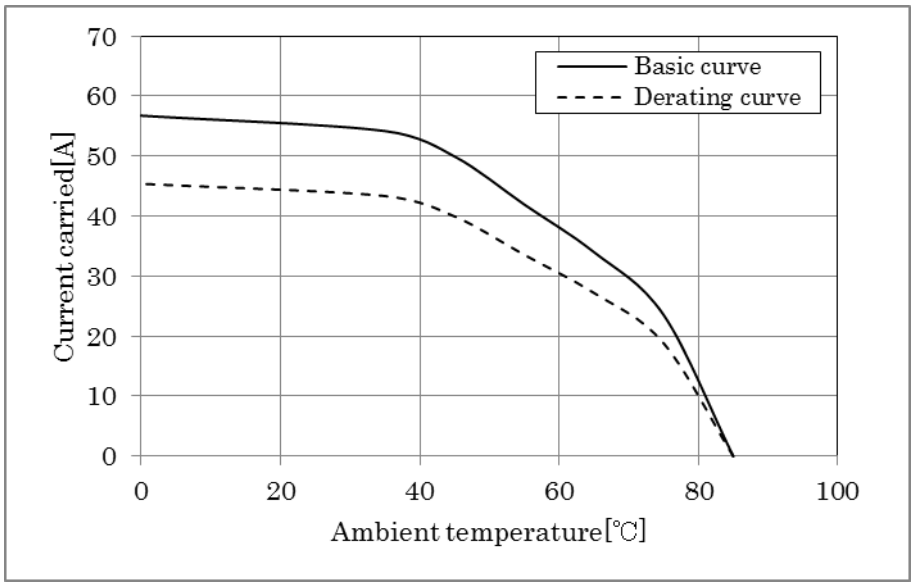
FORM HD0011-2-1

(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.

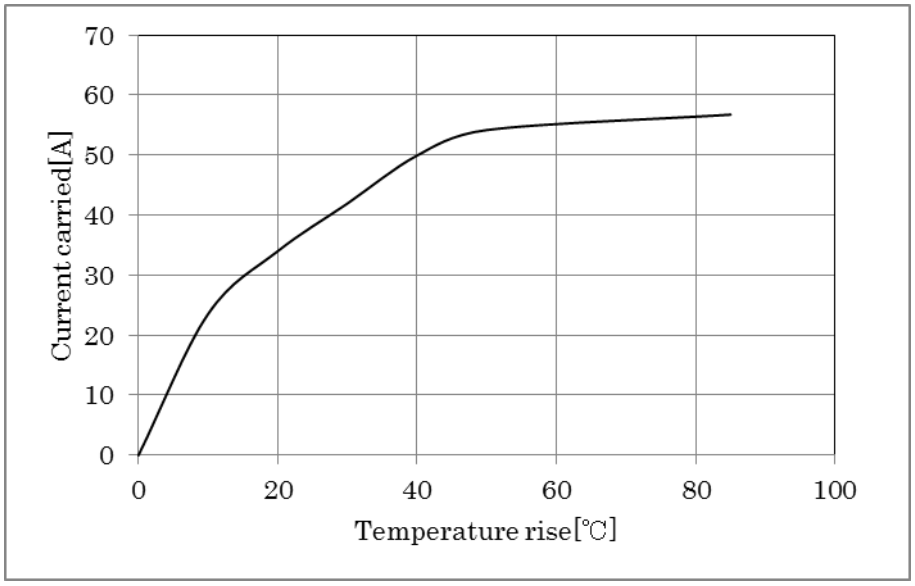
- Test specimen:Unused DF22-1P-7.92DSA(05).
  Unused DF22-1S-7.92C(28)
  Unused DF22A-1012SCF
- Test cable spec:AWG 10
- Test condition: Turn on electricity under the static state and measure.
  (Test report # TR680E-20855)

[Reference]

Derating curve



Temperature rise curve

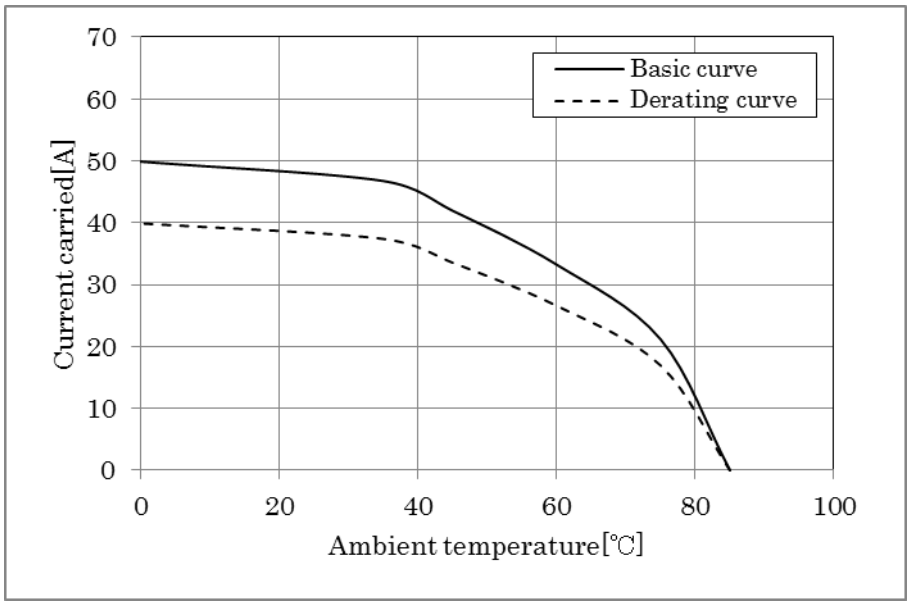


(Note 4)Derating curve takes manufacturing tolerances into consideration as well as uncertainties in temperature measurement and the measuring set up and is derived from the basic curve multiplied by 0.8 calculation.
(Note 5)The value of rated current differs depending on the ambient temperature.
It is recommended to use the product within the derating curve zone.
(Note 6) Measurement method of derating curve is shown below.

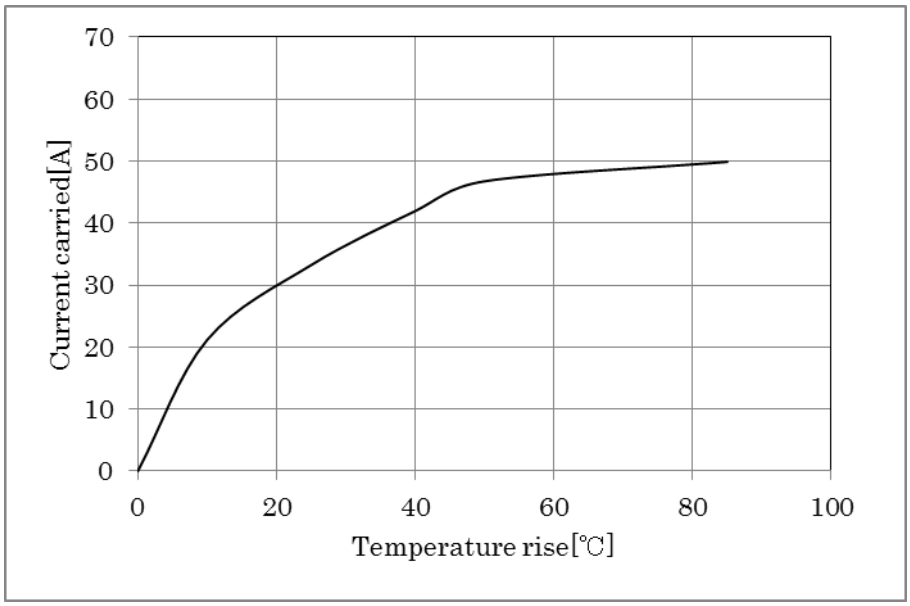
- Test specimen:Unused DF22-1P-7.92DSA(05).
  Unused DF22-1S-7.92C(28)
  Unused DF22A-1012SCF
- Test cable spec:AWG 12
- Test condition: Turn on electricity under the static state and measure.
  (Test report # TR680E-20855)

[Reference]

Derating curve



Temperature rise curve

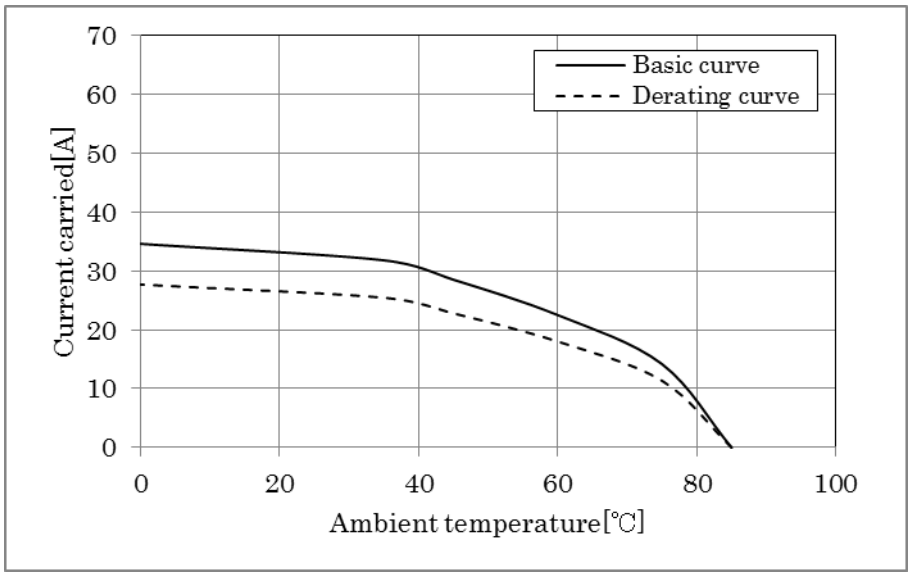


(Note 4)Derating curve takes manufacturing tolerances into consideration as well as uncertainties in temperature measurement and the measuring set up and is derived from the basic curve multiplied by 0.8 calculation.
(Note 5)The value of rated current differs depending on the ambient temperature.
It is recommended to use the product within the derating curve zone.
(Note 6) Measurement method of derating curve is shown below.

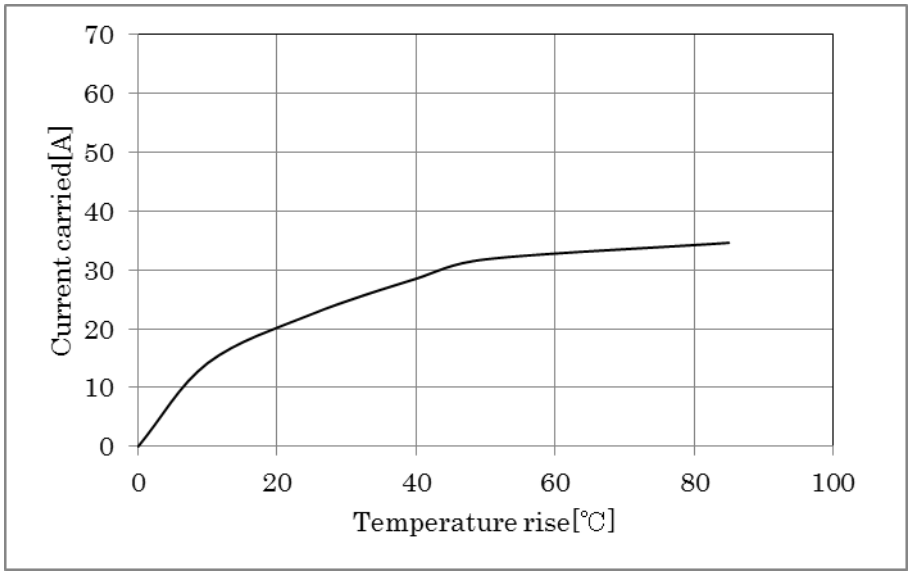
- Test specimen:Unused DF22-1P-7.92DSA(05).
  Unused DF22-1S-7.92C(28)
  Unused DF22A-1416SCF
- Test cable spec:AWG 14
- Test condition: Turn on electricity under the static state and measure.
  (Test report # TR680E-20855)

[Reference]

Derating curve



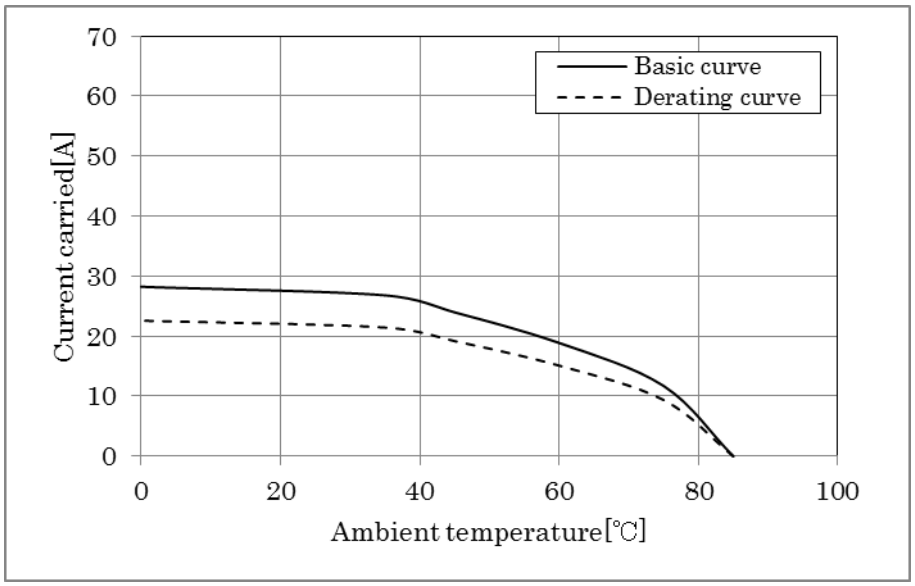
Temperature rise curve



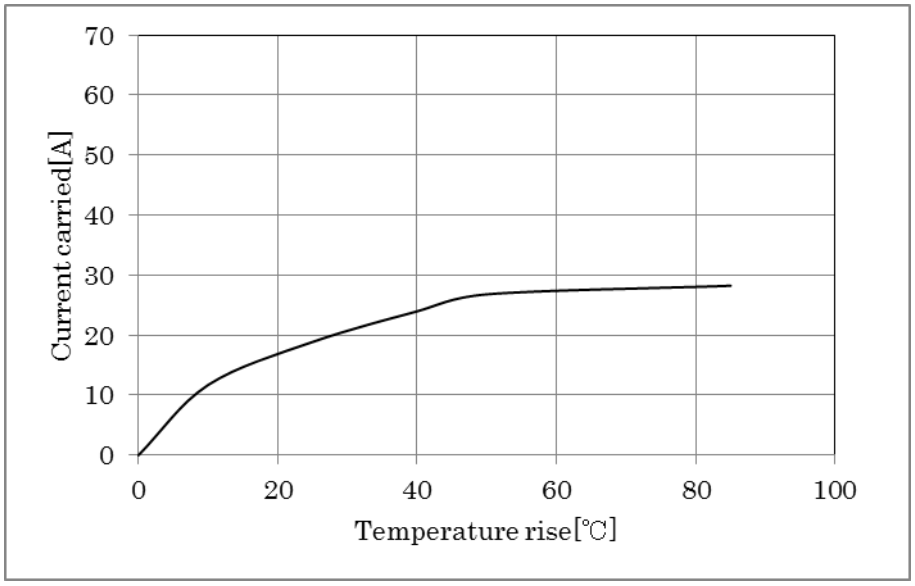
(Note 4)Derating curve takes manufacturing tolerances into consideration as well as uncertainties in temperature measurement and the measuring set up and is derived from the basic curve multiplied by 0.8 calculation.
(Note 5)The value of rated current differs depending on the ambient temperature.
It 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-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.	ELC-326966-00-00		
HRS	Specification sheet	Part no.	DF22-1RS/P-7.92		
	Hirose electric co., ltd.	Code no.	CL680-1213-4-00	⚠0	5/5