



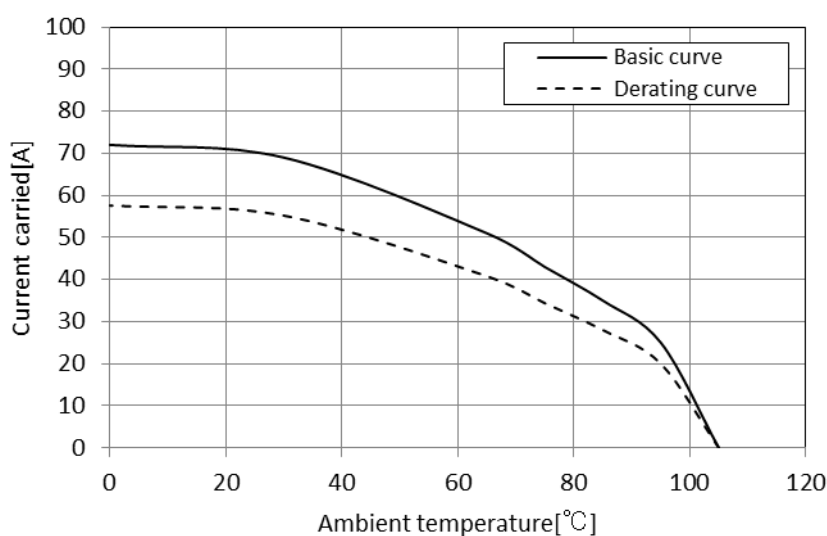


Applicable standard					
Rating	Operating temperature range	-55°C to + 105°C (Note 1)		Storage temperature range	-10°C to + 60°C (Note 3)
	Operating humidity range	20% to 80% (Note 2)		Storage humidity range	40% to 70% (Note 3)
	Current (*1)	AWG8	45A/pin	Applicable contact	DF60-8PC (F) A (##)
		AWG10	35A/pin		DF60-1012PC (F) A (##)
		AWG12	28A/pin	Voltage	1000V AC/DC
	Rated voltage	Rated current		Overvoltage category	IP- degree
UL	600V AC/DC	AWG8:65A/pin, AWG10:55A/pin, AWG12:40A/pin (At ambient temp. 25°C) (Note 5)		—	—
C-UL	600V AC/DC	See above(*1) (Temp. rise up 30°C MAX)		—	—
TÜV	600V AC/DC	See above(*1)		III	IP20 (Note 7)
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		3000V AC for 1 min.		No flashover or breakdown.	X —
Mechanical characteristics					
Vibration		Frequency 10 to 500 Hz, total amplitude 1.5 mm, acceleration of 98 m/s <sup>2</sup> , at 2 h, for 3 directions.		No damage, crack or looseness of parts.	X —
Shock		490 m/s <sup>2</sup> duration of pulse 11 ms at 3 times for 3 directions.		No damage, crack or looseness of parts.	X —
Contact extraction force		Pull out the cable after housing fixation.		49N MIN	X —
Environmental characteristics					
Damp heat (Steady state)		Exposed at 40 ± 2 °C, 90 to 95 %, 96 h.		1) Insulation resistance: 1000MΩ MIN. 2) No damage, crack or looseness of parts.	X —
Rapid change of temperature		Temperature -55°C → +105°C Time 30min → 30min Under 25 cycles. (The transferring time of the tank is 2-3 min) (After leaving the room temperature for 1-2h.)		1) Insulation resistance: 1000MΩ MIN. 2) No damage, crack or looseness of parts	X —
Dry heat		Exposed at 105 ± 2°C, 250h (After leaving the room temperature for 1-2h.)		1) Insulation resistance: 1000MΩ MIN. 2) No damage, crack or looseness of parts	X —
Cold		Exposed at -55 ± 3°C, 96h		1) Insulation resistance: 1000MΩ MIN. 2) No damage, crack or looseness of parts	X —
Remarks Note1: Include the temperature rising by current. Note2: No condensing. Note3: Apply to the unused product on packaged condition.					
	Count	Description of revisions	Designed	Checked	Date
	1	DIS-H-00018494	TS. KUMAZAWA	SZ. ONO	20230616
Unless otherwise specifid , refer to IEC 60512.				Approved	SJ. OKAMURA
				Checked	TT. OHSAKO
				Designed	SN. MIWA
				Drawn	SN. MIWA
Note QT:Qualification Test AT:Assurance Test X:Applicable Test			Drawing no.	ELC-386588-00-00	
	Specification sheet		Part no.	DF60F-2EP-10. 16C	
	Hirose electric co., ltd.		Code no.	CL0680-4009-0-00	 1/2

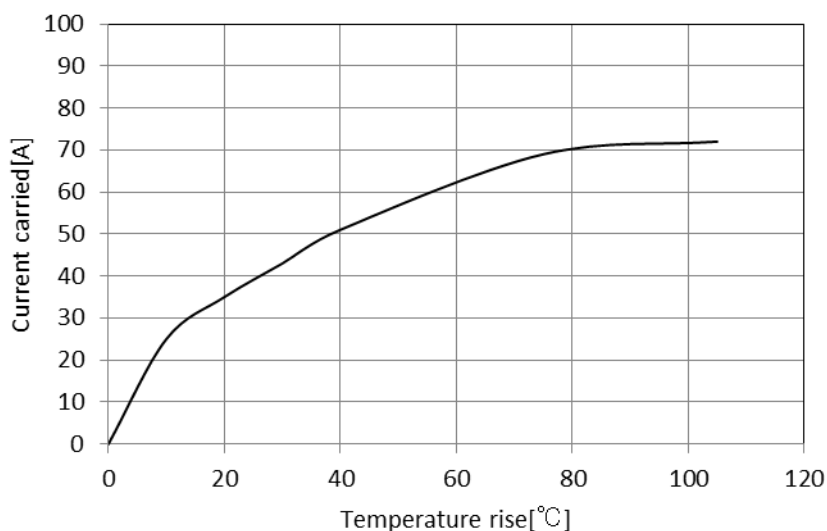
- (Note 4) Derating curve takes manufacturing tolerances into consideration as well as uncertainties in temperature measurement and the measuring set up and is derived from the basic curve multiplied by 0.8 calculation.
- (Note 5) Indicates the current that corresponds to the RTI value (temperature at which performance is halved) of the resin when the ambient temperature is 25°C.  
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 DF60-6P-10.16DS(27).  
Unused DF60-6S-10.16C  
Unused DF60-8SCFA
  - Test cable spec: AWG 8
  - Test condition: Turn on electricity under the static state and measure.  
(Test report # TR680E-20802)
- (Note 7) Refer to "ETAD-H0653-00".

[Reference]

Derating curve



Temperature rise curve



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

Drawing no.

ELC-386588-00-00

**HRS**

Specification sheet

Part no.

DF60F-2EP-10.16C

Hirose electric co., Ltd.

Code no.

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