

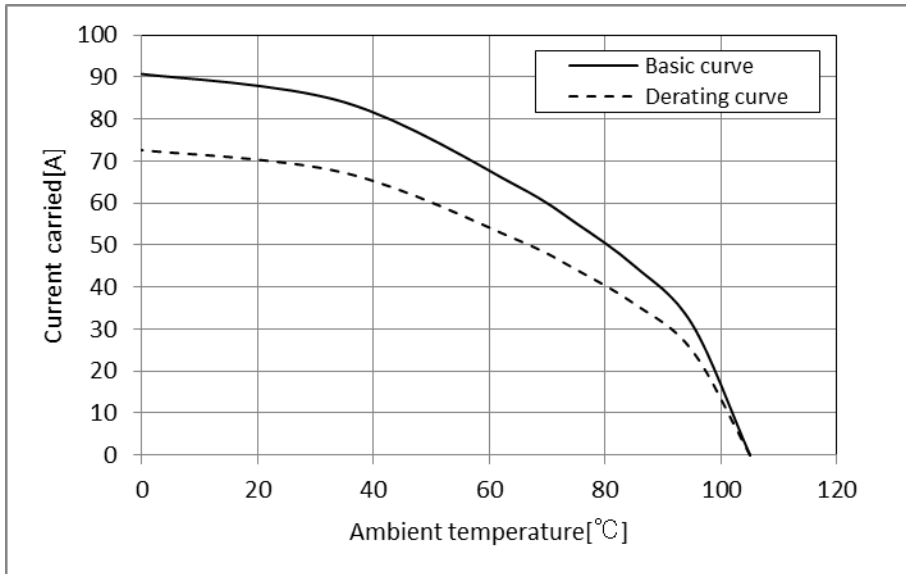
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In case of consideration for using Automotive equipment / device which demand high reliability, kindly contact our sales window correspondents.

APPLICABLE STANDARD							
RATING	OPERATING TEMPERATURE RANGE	-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)		
	VOLTAGE	1000V AC/DC			APPLICABLE CABLE	AWG 8 TO AWG 12	
	CURRENT (*1)	AWG 8	50A/PIN		APPLICABLE CONTACT	DF60-8PC (F) A (07) DF60-1012PC (F) A (07) DF60A-8PC (F) A	
AWG 10		40A/PIN					
AWG 12		31A/PIN					
	RATED VOLTAGE	RATED CURRENT		OVERVOLTAGE CATEGORY	IP- DEGREE		
UL	600V AC/DC	AWG 8: 65A/PIN AWG 10: 55A/PIN AWG 12: 45A/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	IP00		
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.			1000 MΩ 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 ² , AT 2 h, FOR 3 DIRECTIONS.			1) NO DAMAGE, CRACK OR LOOSENESS OF PARTS.	X	-	
SHOCK	490 m/s ² DURATION OF PULSE 11 ms AT 3 TIMES FOR 3 DIRECTIONS.			1) NO DAMAGE, CRACK OR LOOSENESS OF PARTS.	X	-	
ENVIRONMENTAL CHARACTERISTICS							
DAMP HEAT (STEADY STATE)	EXPOSED AT 40 ± 2 °C, 90 TO 95 %, 96 h. (AFTER LEAVING THE ROOM TEMPERATURE FOR 1 TO 2 h.)			1) INSULATION RESISTANCE: 1000 MΩ MIN. 2) NO DAMAGE, CRACK OR LOOSENESS OF PARTS.	X	-	
RAPID CHANGE OF TEMPERATURE	TEMPERATURE -55 °C → +85 °C TIME 30 min → 30 min UNDER 25 CYCLES. (THE TRANSFERRING TIME OF THE TANK IS 2 TO 3 min) (AFTER LEAVING THE ROOM TEMPERATURE FOR 1 TO 2 h.)			1) INSULATION RESISTANCE: 1000 MΩ MIN. 2) NO DAMAGE, CRACK OR LOOSENESS OF PARTS.	X	-	
DRY HEAT	EXPOSED AT 105 ± 2 °C, 250 h (AFTER LEAVING THE ROOM TEMPERATURE FOR 1 TO 2 h.)			1) INSULATION RESISTANCE: 1000 MΩ 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 unused product on packaged condition.							
	COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE		
				APPROVED	SJ. OKAMURA	20210825	
				CHECKED	SZ. ONO	20210825	
				DESIGNED	SN. MIWA	20210825	
				DRAWN	TS. HONJO	20210824	
Unless otherwise specified, refer to IEC 60512.				DRAWING NO.		ELC-360512-00-00	
Note QT:Qualification Test AT:Assurance Test X:Applicable Test				DRAWING NO.		ELC-360512-00-00	
	SPECIFICATION SHEET			PART NO.	DF60-1EP-10. 16C		
	HIROSE ELECTRIC CO., LTD.			CODE NO.	CL0680-3050-2-00		1/4

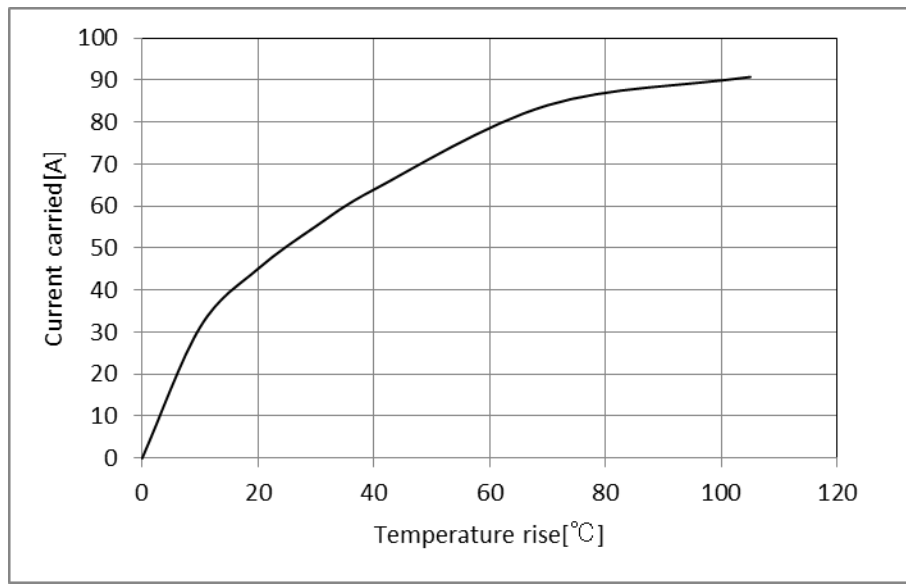
- (Note 4) Derating curve takes manufacturing tolerances into consideration as well as uncertainties in temperature measurement and the measuring set up and is derived from the basic curve multiplied by 0.8 calculation.
- (Note 5) The value of rated current differs depending on the ambient temperature. 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 DF60-2P-10.16DS(27).
 Unused DF60-2S-10.16C
 Unused DF60-8SCFA
 - Test cable spec: AWG 8
 - Test condition: Turn on electricity under the static state and measure.
 (Test report # TR680E-20766)


[Reference]

Derating curve



Temperature rise curve



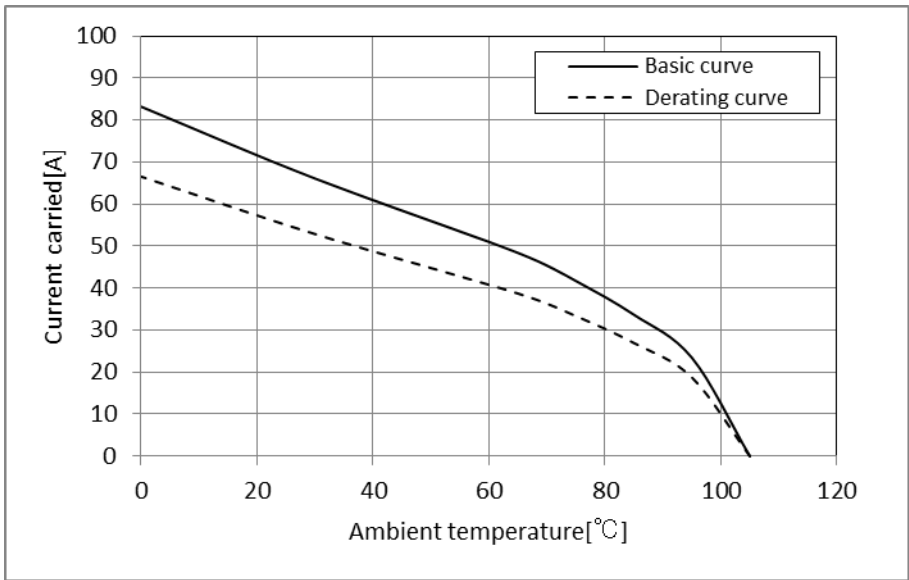
Note QT:Qualification Test AT:Assurance Test X:Applicable Test		DRAWING NO.		ELC-360512-00-00	
HRS	SPECIFICATION SHEET		PART NO.	DF60-1EP-10.16C	
	HIROSE ELECTRIC CO., LTD.		CODE NO.	CL0680-3050-2-00	 2/4

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

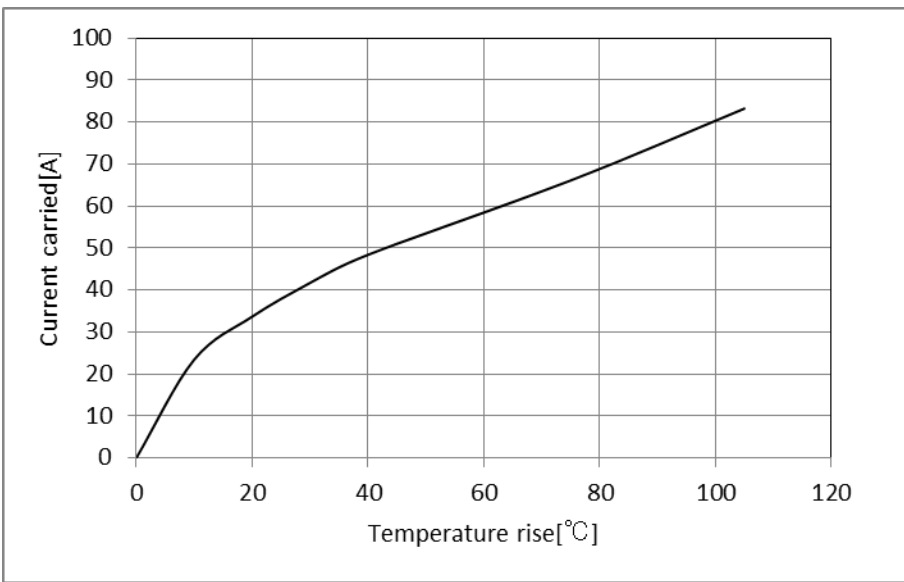
- Test specimen: Unused DF60-2P-10.16DS(27).
Unused DF60-2S-10.16C
Unused DF60-1012SCFA
- Test cable spec: AWG 10
- Test condition: Turn on electricity under the static state and measure.
(Test report # TR680E-20773)

[REFERENCE]

Derating curve



Temperature rise curve



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

DRAWING NO.

ELC-360512-00-00



SPECIFICATION SHEET

PART NO.

DF60-1EP-10.16C

HIROSE ELECTRIC CO., LTD.

CODE NO.

CL0680-3050-2-00



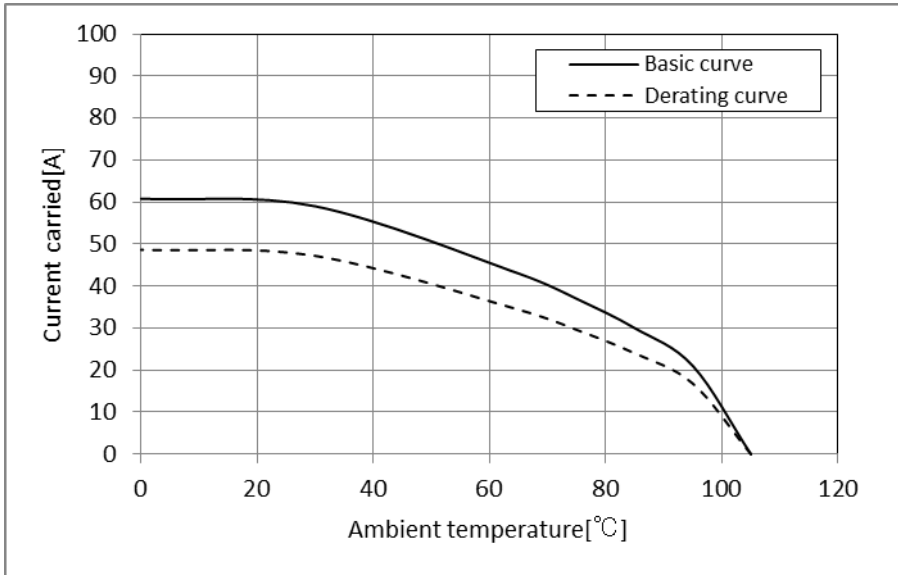
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(Note 8) Measurement method of derating curve is shown below.

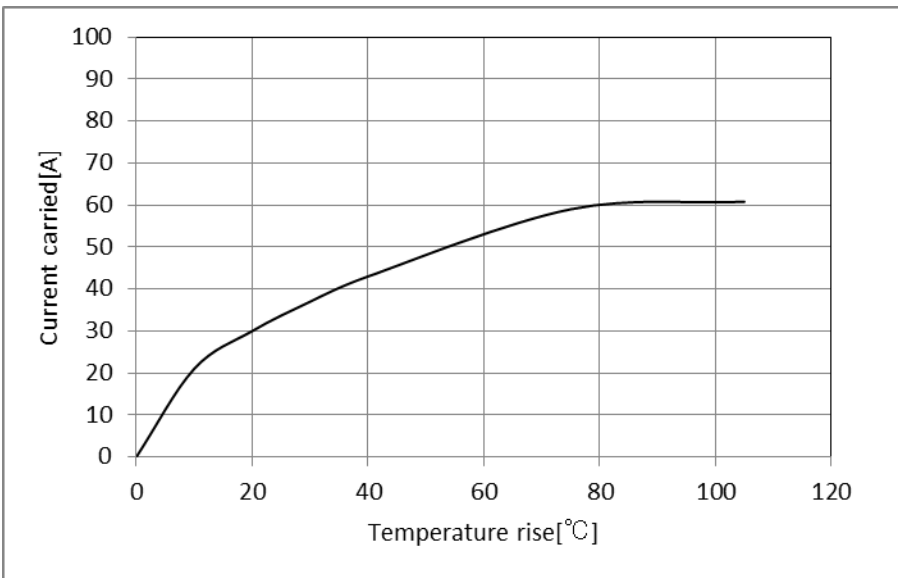
- Test specimen: Unused DF60-1P-10.16DS(27).
 Unused DF60-1S-10.16C
 Unused DF60-1012SCFA
- Test cable spec: AWG 12
- Test condition: Turn on electricity under the static state and measure.
 (Test report # TR680E-20802)

[REFERENCE]

Derating curve



Temperature rise curve



Note QT:Qualification Test AT:Assurance Test X:Applicable Test		DRAWING NO.		ELC-360512-00-00	
HRS	SPECIFICATION SHEET		PART NO.	DF60-1EP-10.16C	
	HIROSE ELECTRIC CO., LTD.		CODE NO.	CL0680-3050-2-00	4/4