| APF | PLICA | BLE | STANI | DARD | | | | | | | | | | | | |
|----------|-------------------------|---------------------------------|-------------|---------------------|---|---------------------------|--------------|--|-----------------------|----------------|------------------|---------------------------------|------------------|-----------|----------|----------|
| | | OPE | RATING | | EE O | TO . 10 | FOO (NOT | FF 1\ | STOR | | | | 1000 TO : | CO0O (N | IOTE | 2) |
| | | TEMPERATURE ING RANGE OPERATING | | RE | -55°C T0 + 105°C | | D'C (NUI | TEMPER | | ERATURE RANGE | | _{SE} -10°C TO + 60°C (| | IUIE | 3) | |
| RA | ATING | | | | | | | STOR | 10E | | _ | | | | | |
| | | _ | IIDITY RA | ANGE | 20% | T0 80 | % (NOTE | E 2) | | NTY RA | NGE | | 40% TO 70 |)% (NO | TE 3 | 3) |
| | | | LTAGE | | | 10007 | AC/DC | | | CABLE | | | DF60-*EP- | 10. 16C | (##) | |
| | | | | | | | AU/ DU | | | ECTOR | | | DF60R-*E | P-10. 1 | 6C | |
| | | CU | RRENT | (*1) | | WG10 | 40/ | | APPLI CABLE | CABLE | | | AWG 10 | TO 12 | | |
| | | | | | A | WG12 | 31/ | <u> </u> | O, IDEE | - | ı | | 7,11,4 | 10 12 | | |
| | | | RATE | ED VOLTA | GE | | RATED | CURREN | T | | OVERV | 0LT/ | AGE CATEGORY | IP- | DEGRI | EE |
| | UL | | 60 | OV AC/DO | ١ | | AWG10:55A | | | | | | | | | |
| | UL | | | OV AO/DO | , | | MBIENT TE | | | | | | | | | |
| | C-UL | | 60 | OV AC/DO |) | SEE ABOVE | E(*1)(TEM | P. RISI | E UP 30 | °CMAX) | | | _ | | | |
| | TÜV | | 60 | OV AC/DO | ; | | SEE AB | 30VE (*1 |) | | | | Ш | I | P00 | |
| | | | | | | S | SPECI | FICA | OITA | NS | | | | | | |
| | IT | EM | | | | TEST ME | ETHOD | | | | RE | QU | IREMENTS | | QT | АТ |
| | NSTR | | | | | | | | | | | | | | | |
| | ERAL EX | AMIN/ | ATION | | | / MEASURIN | IG INSTRUM | ЛЕNT. | | ACCO | RDING TO |) DF | RAWING. | | Х | Χ |
| | KING | | | CONFIRM | | | | | | | | | | | Χ | Χ |
| | | | | CTERIS | | | | | | | | | | | | ı |
| | TACT RE | | - | DC6V | MAX, 1 | A | | | | 2mΩ | MAX. | | | | Χ | _ |
| | | | | RACTE | ERIST | TCS | | | | 1 | | | | | <u> </u> | 1 |
| _ | HANICA | | | 30TIME | S INSE | RTIONS AI | ND EXTRA | CTION | S. | ① CO | NTACT R | ESIS | STANCE: 2mΩ | MAX. | | |
| OPE | RATION | 1 | | | | | | ② NO DAMAGE, CRACK OR LOOSENESS OF PARTS. | | | | Χ | _ | | | |
| VIBR | RATION | | | FREQUEN | NCY 10 TO 500 Hz, TOTAL AMPLITUDE 1.5 mm, | | | ① NO ELECTRICAL DISCONTINUITY OF 1μs. | | | | | | | | |
| | | | | | on of 98 m/s ² , AT 2 h, FOR 3 DIRECTIONS. | | | _ | | | OR LOOSENESS O | | Χ | _ | | |
| SHO | CK | | | | DURATION OF PULSE 11 ms AT 3 TIMES FOR 3 | | | NO ELECTRICAL DISCONTINUITY OF 1µs. NO DAMAGE, CRACK OR LOOSENESS OF PARTS | | | | Х | | | | |
| CRIN | MP TEN | SILF | | DIRECTIC APPLY W | TIRE TENSILE STRENGTH TO CAULKING AREA | | | | | | | ^ | _ | | | |
| STR | ENGTH | | | AXIALLY (| JNTIL LC | OOSEN OR E | BROKEN. | | | | | | | | Χ | _ |
| EN, | VIROI | MME | NTAL | CHARA | ACTE | RISTICS | S | | | | | | | | | |
| | IP HEAT | | | EXPOSE | D AT 4 | 0 ± 2 °C, | 90 TO 95 | %, 96 h | - | | NTACT RE | | - | MAX. | Х | |
| ` | ID CHAI | | <u> </u> | TEMPER | RATURE -55°C→ +85°C | | | | DAMAGE, C NTACT RE | _ | K OR LOOSENESS (| MAX. | ^ | | | |
| | PERAT | | 0. | TIME | 30min→ 30min | | | _ | | | K OR LOOSENESS (| | Χ | _ | | |
| | | | | UNDER 2 | | _ | | | | | | | | | | |
| | | | | , | | NG TIME OF THE ROOM TE | | | | | | | | | | |
| DRY | HEAT | | | ` | | 05 ± 2°C, | | | | ① COI | NTACT RE | SIS | TANCE: 2mΩ | MAX. | Х | <u> </u> |
| | | | | | | HE ROOM TE | | E FOR 1 | -2h.) | 2 NO | DAMAGE, C | RAC | K OR LOOSENESS (| OF PARTS. | | |
| Rem | arks | | | | | | | | | 1 | | | | | | ı |
| | 1: Include 2: No con | | | rising by cu | rrent. | | | | | | | | | | | |
| | B: Apply to | the c | ondition of | • | • | or unused pro | | | | | | | | | | |
| | After mo | ounted | on PCB bo | oard , opera | ating tem | perature and | humidity ran | nge is ap | plied for i | nterim sto | orage during | g trar | nsportation. | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| \vdash | COUN | тТ | DE | SCRIPTION | ON OF | REVISION | s | | DESIG | NED | | | CHECKED | | DΛ | TE |
| Λ | 00011 | + | DL | COM TH | 011 01 | | | | DEGIC | ,, 1 LD | | | O. ILOILED | | רט | |
| | ess othe | erwis | e specifi | d , refer | to IEC | 60512. | | | | | APPROV | ED/ | HS. OKAWA | | 17. 0 | 2. 07 |
| | | | • | | | | | | | | CHECKI | | TS. FUKUSHI | | | 2. 07 |
| | | | | | | | | | | | DESIGN | | TS. KUMAZAV | | | 2. 07 |
| | | | | | | | | | | | DRAW | N | TS. KUMAZAV | VA | | 2. 07 |

DRAWING NO.

PART NO.

CODE NO.

DF60-1012PCA (07)

CL680-3049-3-07

ELC-345697-07-00

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1/7

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

SPECIFICATION SHEET

HIROSE ELECTRIC CO., LTD.

(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.

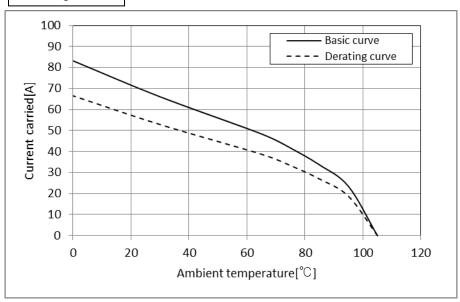
It is recommended to use the product within the derating curve zone.

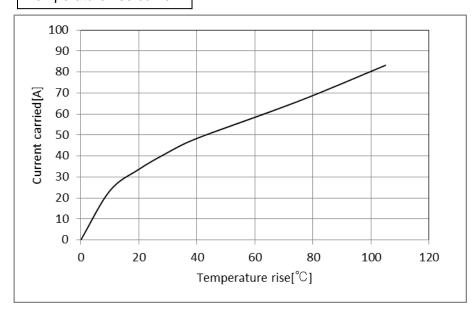
(Note 6) Measurement method of derating curve is shown below.

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

[Reference]

Derating curve





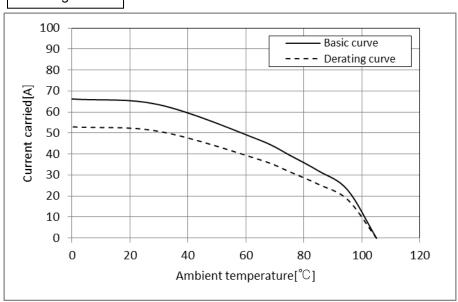
| Note QT:Q | ualification Test AT:Assurance Test X:Applicable Test | DRAWIN | IG NO. | ELC-345697-07-00 | | |
|-----------|---|----------|-------------------|------------------|---|-----|
| HRS | SPECIFICATION SHEET | PART NO. | DF60-1012PCA (07) | | | |
| | HIROSE ELECTRIC CO., LTD. | CODE NO. | CL680 |)-3049-3-07 | Δ | 2/7 |

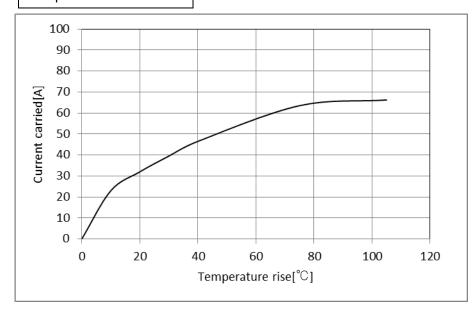
(Note 7) Measurement method of derating curve is shown below.

- Test specimen:Unused DF60-3P-10.16DS(27).
 Unused DF60-3S-10.16C
 Unused DF60-1012SCFA
- Test cable spec:AWG 10
- Test condition: Turn on electricity under the static state and measure.
 (Test report # TR680E-20802)

[Reference]

Derating curve





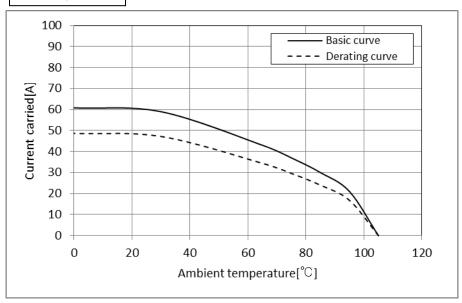
| Note QT:Q | ualification Test AT:Assurance Test X:Applicable Test | DRAWIN | IG NO. | ELC-345697-07-00 | | |
|-----------|---|----------|-------------------|------------------|----------|-----|
| HS. | SPECIFICATION SHEET | PART NO. | DF60-1012PCA (07) | | | |
| | HIROSE ELECTRIC CO., LTD. | CODE NO. | CL680 |)-3049-3-07 | Δ | 3/7 |

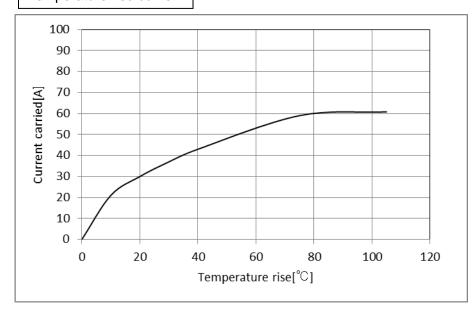
(Note 8) Measurement method of derating curve is shown below.

- Test specimen:Unused DF60-6P-10.16DS(27).
 Unused DF60-6S-10.16C
 Unused DF60-1012SCFA
- Test cable spec:AWG 10
- Test condition: Turn on electricity under the static state and measure. (Test report # TR680E-20802)

[Reference]

Derating curve





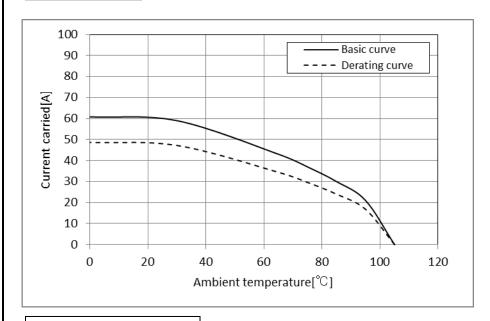
| Note QT:Q | ualification Test AT:Assurance Test X:Applicable Test | DRAWIN | IG NO. | ELC-345697-07-00 | | | |
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| HRS | SPECIFICATION SHEET | PART NO. | DF60-1012PCA (07) | | | | |
| 11.0 | HIROSE ELECTRIC CO., LTD. | CODE NO. | CL680 |)-3049-3-07 | \triangle | 4/7 | |

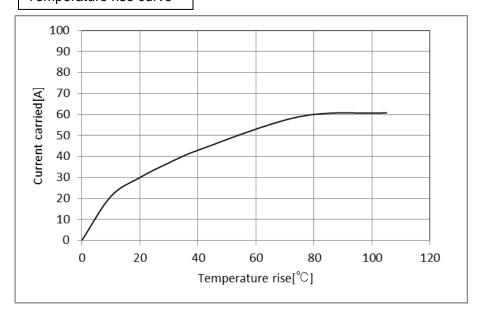
(Note 9) Measurement method of derating curve is shown below.

- 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





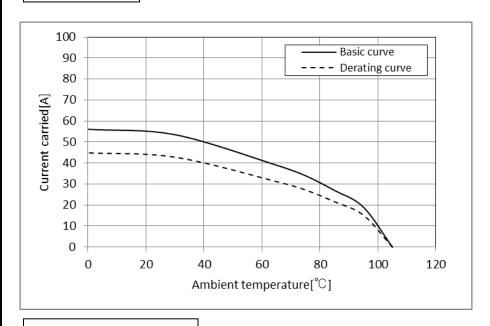
| Note QT:Qu | ualification Test AT:Assurance Test X:Applicable Test | DRAWING NO. ELC-34569 | | | | 0 |
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| R | SPECIFICATION SHEET | PART NO. | DF60-1012PCA (07) | | | |
| | HIROSE ELECTRIC CO., LTD. | CODE NO. | CL680 |)-3049-3-07 | \triangle | 5/7 |

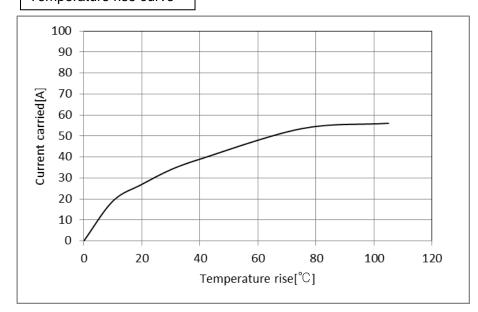
(Note 10) Measurement method of derating curve is shown below.

- Test specimen:Unused DF60-3P-10.16DS(27).
 Unused DF60-3S-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





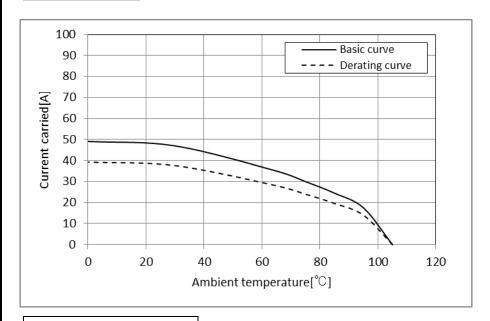
| Note QT:Qu | DRAWIN | ELC-345697 | -07-0 | 00 | | |
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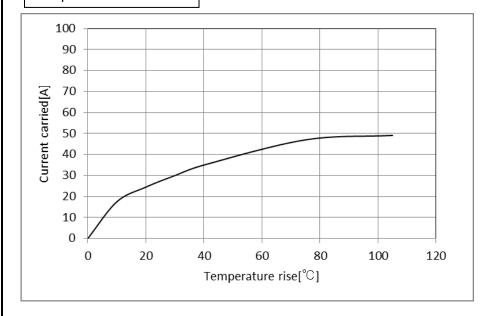
(Note 11) Measurement method of derating curve is shown below.

- Test specimen:Unused DF60-6P-10.16DS(27).
 Unused DF60-6S-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





| Note QT:Q | ualification Test AT:Assurance Test X:Applicable Test | DRAWIN | IG NO. | ELC-345697-07-00 | | |
|-----------|---|----------|-------------------|------------------|-------------|-----|
| HS. | SPECIFICATION SHEET | PART NO. | DF60-1012PCA (07) | | | |
| | HIROSE ELECTRIC CO., LTD. | CODE NO. | CL680 |)-3049-3-07 | \triangle | 7/7 |