For Fuji Electric

APPLICATION NOTE

FECA-AN-176A

Frenic-Ace Single Phase Ratings

| Inverter type | |
|-----------------------|--|
| Software version | |
| Required options | |
| Related documentation | |
| Author | |
| Date | |
| Revision | |

Frenic-Ace All None Frenic-Ace Instruction Manual J. Orlicki 3/2016 A

Introduction

The Frenic-Ace has been approved by UL for a single phase input. This Application note will list the single phase input and output ratings of the Frenic-Ace. The 230V models will be listed first, followed by the 460V rated drives. When selecting a model, use the amperage of the motor to select the drive.

UL File Number

UL File Number E132902

Conformity to UL Standards

When applying single-phase to a three-phase drive, the applied motor must not exceed the specifications in the table below. Specifications other than those shown below are the same as those in the "Three-phase 230 V series" and "Three-phase 460 V series.

Function Code Settings

The Ace has built in protection from input phase loss. To use single phase input and to shut off this protection. Set function code H98 Bit 1 Off.

Due to extra ripple on the DC bus, the performance of Ace may not be as accurate as with 3 phase. Therefore, set function code F2 - 0 for "V/F control without slip compensation".

Wiring

Connect the wiring to L1 & L3.

Refer to the 3 phase wiring gauges for the related drive model number for all wiring.

Refer to the MCCB or RCD/ELCB ratings for the same 3 phase drive model number.

*Note: The Frenic-ACE also offers a single phase 230V model from the factory. These models range from 1/8-3HP in an HHD model. The model numbers follow this format: FRN____E2S-7GB.



Single-phase 230V series

HND (High carrier, Normal Duty 120% overload for 1 minute) inverters for variable torque load.

| Item | | Specifications | | | | | | | | | | | | |
|---|---------------------------------|----------------|-------------|------------|-------------|------|------|------|------|------|------|------|------|------|
| Туре | (FRNE2S-2GB) | 0001 | 0002 | 0004 | 0006 | 0010 | 0012 | 0020 | 0030 | 0040 | 0056 | 0069 | 0088 | 0115 |
| Nominally Applied motor (HP) (outputrating) *1 | | - | - | - | - | - | - | - | 5 | 7.5 | 10 | 10 | 15 | 20 |
| Output Ratings | Rated Capacity (kVA) *2 | - | - | - | - | - | - | - | 9.2 | 11.9 | 12.8 | 15.5 | 17.5 | 23.1 |
| | Rated Current (A) | - | - | - | - | - | - | - | 23.0 | 30.0 | 32.0 | 39.0 | 44.0 | 58.0 |
| | Rated Current (w/o DCR) (A) | - | - | - | - | - | - | - | 42.7 | 60.7 | 80.0 | 97.0 | 112 | 151 |
| Input Ratings | Rated Current (with DCR) (A) | - | - | - | - | - | - | - | 28.8 | 42.2 | 57.6 | 71.0 | 84.4 | 114 |
| Input R | Voltage, Frequency | Single-pha | ase, 200 to | 240V, 50/ | 60Hz | | | | | | | | | |
| | Allowable Voltage/Frequency | Voltage: + | -10 to -10% | 6, Frequen | cy: +5 to - | 5% | | | | | | | | |

Note: If inverter capacity is not available above, use the equivalent HHD model from the table below.

Single-phase 230V series

HHD (High carrier, Heavy Duty 150% overload for 1 minute and 200% for 0.5 seconds) inverters for constant torque load.

| ltem | · • • • | | Specifications | | | | | | | | | | | | | |
|---|---------------------------------|------------|----------------|------------|--------------|------|------|------|------|------|------|------|------|------|--|--|
| Туре | (FRNE2S-2GB) | 0001 | 0002 | 0004 | 0006 | 0010 | 0012 | 0020 | 0030 | 0040 | 0056 | 0069 | 0088 | 0115 | | |
| Nominally Applied motor (HP) (outputrating) *1 | | - | 1/8 | 1/4 | 1/2 | 1 | 1.5 | 2 | 3 | 5 | 7.5 | 10 | 10 | 15 | | |
| Output Ratings | Rated Capacity (kVA) *2 | - | 0.32 | 0.67 | 1.15 | 1.83 | 2.62 | 3.9 | 6.8 | 9.2 | 10.4 | 13.2 | 15.1 | 18.0 | | |
| Output F | Rated Current (A) | - | 0.8 | 1.7 | 2.8 | 4.6 | 6.6 | 9.7 | 17.0 | 23.0 | 26.0 | 33.0 | 38.0 | 45.0 | | |
| | Rated Current (w/o DCR) (A) | - | 2.6 | 4.9 | 6.7 | 12.8 | 17.9 | 31.9 | 42.7 | 60.7 | 80.0 | 97.0 | 112 | 151 | | |
| Ratings | Rated Current (with DCR) (A) | - | 1.6 | 3.0 | 4.3 | 8.3 | 11.7 | 19.9 | 28.8 | 42.2 | 57.6 | 71.0 | 84.4 | 114 | | |
| Input R | Voltage, Frequency | Single-pha | ase, 200 to | 240V, 50/ | 60Hz | | | | | | | | | | | |
| | Allowable Voltage/Frequency | Voltage: + | -10 to -10% | 6, Frequen | cy: +5 to -{ | 5% | | | | | | | | | | |

*1 US 4P standard induction motor

*2 Rated capacity is calculated assuming the rated voltage as 230V for 230V and 460V for 460V series



Single-phase 460V series

HND (High carrier, Normal Duty 120% overload for 1 minute) inverters for variable torque load.

| lten | 1 | | Specifications | | | | | | | | | | | | | | 1 | | | | | | |
|----------------|---|----------|----------------|----------|----------|-----------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|-------|-------|-------|
| Тур | e (FRNE2S-4GB) | 0002 | 0004 | 0006 | 0007 | 0012 | 0022 | 0029 | 0037 | 0044 | 0059 | 0072 | 0085 | 0105 | 0139 | 0168 | 0203 | 0240 | 0290 | 0361 | 0415 | 0520 | 0590 |
| | ninally Applied motor (HP) putrating) *1 | - | - | - | - | - | 5 | 7.5 | 10 | 10 | 15 | 20 | 25 | 30 | 30 | 40 | 50 | 50 | 60 | 75 | 100 | 100 | 125 |
| Output Ratings | Rated Capacity (kVA) *2 | - | - | - | - | - | 8.8 | 11.9 | 13.5 | 16 | 18.3 | 23.1 | 29.5 | 36.7 | 43 | 47 | 55.8 | 65.3 | 78.9 | 96.4 | 116 | 128 | 161 |
| | Rated Current (A) | - | - | - | - | - | 11.0 | 15.0 | 17.0 | 20.0 | 23.0 | 29.0 | 37.0 | 46.0 | 54.0 | 59.0 | 70.0 | 82.0 | 99.0 | 121.0 | 146.0 | 161.0 | 202.0 |
| | Rated Current (w/o DCR) (A) | - | - | - | - | - | 23.2 | 33 | 43.8 | 52.3 | 60.6 | 77.9 | 94.3 | 114 | 140 | - | - | - | - | - | - | - | - |
| Input Ratings | Rated Current (with DCR) (A) | - | - | - | - | - | 14.4 | 21.1 | 28.8 | 35.5 | 42.2 | 57.0 | 68.5 | 83.2 | 102 | 138 | 164 | 201 | 238 | 286 | 357 | 390 | 500 |
| | Voltage, Frequency | Single-p | ohase, 3 | 80 to 48 | 0V, 50/6 | 60Hz | | | | | | | | | | | | | | | | | |
| | Allowable Voltage/Frequency | Voltage | : +10 to | -10%, F | requenc | :y: +5 to | -5% | | | | | | | | | | | | | | | | |

Note: If inverter capacity is not available above, use the equivalent HHD model from the table below.

Single-phase 460V series

HHD (High carrier, Heavy Duty 150% overload for 1 minute and 200% for 0.5 seconds) inverters for constant torque load.

| 1 | | Specifications | | | | | | | | | | | | | | | | | | | | |
|---|---|---|--|---|---|---|---|--|--|--|---|--|---|---|---|---|--|---|--|---|--|---|
| e (FRNE2S-4GB) | 0002 | 0004 | 0006 | 0007 | 0012 | 0022 | 0029 | 0037 | 0044 | 0059 | 0072 | 0085 | 0105 | 0139 | 0168 | 0203 | 0240 | 0290 | 0361 | 0415 | 0520 | 0590 |
| Nominally Applied motor (HP) (outputrating) *1 | | 1/2 | 1 | 1.5 | 3 | 3 | 5 | 7.5 | 10 | 10 | 15 | 20 | 25 | 30 | 30 | 40 | 50 | 60 | 60 | 75 | 100 | 100 |
| Rated Capacity (kVA) *2 | 0.71 | 1.2 | 1.9 | 2.4 | 4.5 | 6.4 | 9.6 | 11.1 | 13.5 | 16.0 | 18.3 | 24.0 | 30.3 | 36.0 | 43.9 | 48.6 | 57.4 | 68.5 | 82.0 | 97.2 | 118.8 | 133.0 |
| Rated Current (A) | 0.9 | 1.5 | 2.3 | 3.0 | 5.6 | 8.0 | 12.0 | 14.0 | 17.0 | 20.0 | 23.0 | 30.0 | 38.0 | 45.0 | 55.0 | 61.0 | 72.0 | 86.0 | 103.0 | 122.0 | 149.0 | 167.0 |
| Rated Current (w/o DCR) (A) | 1.7 | 3.1 | 5.9 | 8.2 | 13.0 | 23.2 | 33 | 43.8 | 52.3 | 60.6 | 77.9 | 94.3 | 114 | 140 | - | - | - | - | - | - | - | - |
| Rated Current (with DCR) (A) | 0.85 | 1.6 | 3.0 | 4.4 | 7.3 | 14.4 | 21.1 | 28.8 | 35.5 | 42.2 | 57.0 | 68.5 | 83.2 | 102 | 138 | 164 | 201 | 238 | 286 | 357 | 390 | 500 |
| Voltage, Frequency | Single-p | ohase, 3 | 80 to 48 | 0V, 50/6 | 60Hz | | | | | | | | | | | | | | | | | |
| Allowable Voltage/Frequency | Voltage | : +10 to | -10%, F | requenc | y: +5 to | -5% | | | | | | | | | | | | | | | | |
| | hinally Applied motor (HP) putrating) *1 Rated Capacity (kVA) *2 Rated Current (A) Rated Current (w/o DCR) (A) Rated Current (with DCR) (A) Voltage, Frequency Allowable | e (FRNE2S-4GB) 0002 ninally Applied motor (HP) putrating) *1 1/4 Rated Capacity (kVA) *2 0.71 Rated Current (A) 0.9 Rated Current (w/o DCR) (A) 1.7 Rated Current (with DCR) (A) 0.85 Voltage, Frequency Single-f Allowable Voltage | e (FRNES3-4GB) 0002 0004 ninally Applied motor (HP) putrating) *1 1/4 1/2 Rated Capacity (kVA) *2 0.71 1.2 Rated Current (A) 0.9 1.5 Rated Current (WO DCR) (A) 1.7 3.1 Rated Current (with DCR) (A) 0.85 1.6 Voltage, Frequency Single-phase, 3 Allowable Voltage: ±10 to | e (FRNES3-4GB) 0002 0004 0006 ninally Applied motor (HP) putrating) *1 1/4 1/2 1 Rated Capacity (kVA) *2 0.71 1.2 1.9 Rated Current (A) 0.9 1.5 2.3 Rated Current (w/o DCR) (A) 1.7 3.1 5.9 Rated Current (with DCR) (A) 0.85 1.6 3.0 Voltage, Frequency Single-phase, 380 to 48 Allowable Voltage: ±10 to ±10% | e (FRNE2S-4GB) 0002 0004 0006 0007 ninally Applied motor (HP) putrating) *1 1/4 1/2 1 1.5 Rated Capacity (kVA) *2 0.71 1.2 1.9 2.4 Rated Current (A) 0.9 1.5 2.3 3.0 Rated Current (w/o DCR) (A) 1.7 3.1 5.9 8.2 Rated Current (with DCR) (A) 0.85 1.6 3.0 4.4 Voltage, Frequency Single-phase, 380 to 480V, 50/6 Allowable Voltage: ±10 to ±10% Frequence | e (FRNE2S-4GB) 0002 0004 0006 0007 0012 ninally Applied motor (HP) putrating) *1 1/4 1/2 1 1.5 3 Rated Capacity (kVA) *2 0.71 1.2 1.9 2.4 4.5 Rated Current (A) 0.9 1.5 2.3 3.0 5.6 Rated Current (w/o DCR) (A) 1.7 3.1 5.9 8.2 13.0 Rated Current (with DCR) (A) 0.85 1.6 3.0 4.4 7.3 Voltage, Frequency Single-phase, 380 to 480V, 50/60Hz Allowable Voltage: ±10 to -10% Frequency: ±5 to | e (FRNE2S-4GB) 0002 0004 0006 0007 0012 0022 ninally Applied motor (HP) putrating) *1 1/4 1/2 1 1.5 3 3 Rated Capacity (kVA) *2 0.71 1.2 1.9 2.4 4.5 6.4 Rated Current (A) 0.9 1.5 2.3 3.0 5.6 8.0 Rated Current (w/o DCR) (A) 1.7 3.1 5.9 8.2 13.0 23.2 Rated Current (with DCR) (A) 0.85 1.6 3.0 4.4 7.3 14.4 Voltage, Frequency Single-phase, 380 to 480V, 50/60Hz 4.10 to -10% Frequency: +5 to -5% | e (FRNE2S-4GB) 0002 0004 0006 0007 0012 0022 0029 ninally Applied motor (HP) putrating) *1 1/4 1/2 1 1.5 3 3 5 Rated Capacity (kVA) *2 0.71 1.2 1.9 2.4 4.5 6.4 9.6 Rated Current (A) 0.9 1.5 2.3 3.0 5.6 8.0 12.0 Rated Current (Wo DCR) (A) 1.7 3.1 5.9 8.2 13.0 23.2 33 Rated Current (with DCR) (A) 0.85 1.6 3.0 4.4 7.3 14.4 21.1 Voltage, Frequency Single-phase, 380 to 480V, 50/60Hz 4.4 7.3 14.4 21.1 | e (FRNE2S-4GB) 0002 0004 0006 0007 0012 0022 0029 0037 ninally Applied motor (HP) putrating) *1 1/4 1/2 1 1.5 3 3 5 7.5 Rated Capacity (kVA) *2 0.71 1.2 1.9 2.4 4.5 6.4 9.6 11.1 Rated Current (A) 0.9 1.5 2.3 3.0 5.6 8.0 12.0 14.0 Rated Current (w/o DCR) (A) 1.7 3.1 5.9 8.2 13.0 23.2 33 43.8 Rated Current (with DCR) (A) 0.85 1.6 3.0 4.4 7.3 14.4 21.1 28.8 Voltage, Frequency Single-phase, 380 to 480V, 50/60Hz 4.4 7.3 14.4 21.1 28.8 | e (FRNE2S-4GB) 0002 0004 0006 0007 0012 0022 0029 0037 0044 ninally Applied motor (HP) putrating) *1 1/4 1/2 1 1.5 3 3 5 7.5 10 Rated Capacity (kVA) *2 0.71 1.2 1.9 2.4 4.5 6.4 9.6 11.1 13.5 Rated Current (A) 0.9 1.5 2.3 3.0 5.6 8.0 12.0 14.0 17.0 Rated Current (w/o DCR) (A) 1.7 3.1 5.9 8.2 13.0 23.2 33 43.8 52.3 Rated Current (with DCR) (A) 0.85 1.6 3.0 4.4 7.3 14.4 21.1 28.8 35.5 Voltage, Frequency Single-phase, 380 to 480V, 50/60Hz 4.50 +5% 55% 56% | e (FRNE2S-4GB) 0002 0004 0006 0007 0012 0022 0029 0037 0044 0059 ninally Applied motor (HP) putrating) *1 1/4 1/2 1 1.5 3 3 5 7.5 10 10 Rated Capacity (kVA) *2 0.71 1.2 1.9 2.4 4.5 6.4 9.6 11.1 13.5 16.0 Rated Current (A) 0.9 1.5 2.3 3.0 5.6 8.0 12.0 14.0 17.0 20.0 Rated Current (W/o DCR) (A) 1.7 3.1 5.9 8.2 13.0 23.2 33 43.8 52.3 60.6 Rated Current (with DCR) (A) 0.85 1.6 3.0 4.4 7.3 14.4 21.1 28.8 35.5 42.2 Voltage, Frequency Single-phase, 380 to 480V, 50/60Hz 50.5% 50.5% 50.5% 50.5% 50.5% | e (FRNE2S-4GB) 0002 0004 0006 0007 0012 0022 0029 0037 0044 0059 0072 ninally Applied motor (HP) putrating) *1 1/4 1/2 1 1.5 3 3 5 7.5 10 10 15 Rated Capacity (kVA) *2 0.71 1.2 1.9 2.4 4.5 6.4 9.6 11.1 13.5 16.0 18.3 Rated Current (A) 0.9 1.5 2.3 3.0 5.6 8.0 12.0 14.0 17.0 20.0 23.0 Rated Current (w/o DCR) (A) 1.7 3.1 5.9 8.2 13.0 23.2 33 43.8 52.3 60.6 77.9 Rated Current (with DCR) (A) 0.85 1.6 3.0 4.4 7.3 14.4 21.1 28.8 35.5 42.2 57.0 Voltage, Frequency Single-phase, 380 to 480V, 50/60Hz 450.5% 56.6 56.6 56.6 56.6 | e (FRNE2S-4GB) 0002 0004 0006 0007 0012 0022 0029 0037 0044 0059 0072 0085 ninally Applied motor (HP) putrating) *1 1/4 1/2 1 1.5 3 3 5 7.5 10 10 15 20 Rated Capacity (kVA) *2 0.71 1.2 1.9 2.4 4.5 6.4 9.6 11.1 13.5 16.0 18.3 24.0 Rated Capacity (kVA) *2 0.71 1.2 1.9 2.4 4.5 6.4 9.6 11.1 13.5 16.0 18.3 24.0 Rated Current (A) 0.9 1.5 2.3 3.0 5.6 8.0 12.0 14.0 17.0 20.0 23.0 30.0 Rated Current (w/o DCR) (A) 1.7 3.1 5.9 8.2 13.0 23.2 33 43.8 52.3 60.6 77.9 94.3 Rated Current (with DCR) (A) 0.85 1.6 3.0 4.4 7.3 14.4 21.1 28.8 35.5 42.2 57.0 68.5 | e (FRNE2S-4GB) 0002 0004 0006 0007 0012 0022 0029 0037 0044 0059 0072 0085 0105 ninally Applied motor (HP) putrating) *1 1/4 1/2 1 1.5 3 3 5 7.5 10 10 15 20 25 Rated Capacity (kVA) *2 0.71 1.2 1.9 2.4 4.5 6.4 9.6 11.1 13.5 16.0 18.3 24.0 30.3 Rated Capacity (kVA) *2 0.71 1.2 1.9 2.4 4.5 6.4 9.6 11.1 13.5 16.0 18.3 24.0 30.3 Rated Current (A) 0.9 1.5 2.3 3.0 5.6 8.0 12.0 14.0 17.0 20.0 23.0 30.0 38.0 Rated Current (w/o DCR) (A) 1.7 3.1 5.9 8.2 13.0 23.2 33 43.8 52.3 60.6 77.9 94.3 114 Rated Current (with DCR) (A) 0.85 1.6 3.0 4.4 7.3 14.4 <td>e (FRNE2S-4GB) 0002 0004 0006 0007 0012 0022 0029 0037 0044 0059 0072 0085 0105 0139 ninally Applied motor (HP) putrating) *1 1/4 1/2 1 1.5 3 3 5 7.5 10 10 15 20 25 30 Rated Capacity (kVA) *2 0.71 1.2 1.9 2.4 4.5 6.4 9.6 11.1 13.5 16.0 18.3 24.0 30.3 36.0 Rated Current (A) 0.9 1.5 2.3 3.0 5.6 8.0 12.0 14.0 17.0 20.0 23.0 30.0 38.0 45.0 Rated Current (w/o DCR) (A) 1.7 3.1 5.9 8.2 13.0 23.2 33 43.8 52.3 60.6 77.9 94.3 114 140 Rated Current (with DCR) (A) 0.85 1.6 3.0 4.4 7.3 14.4 21.1 28.8 35.5 42.2 57.0 68.5 83.2 102 Voltage, Frequency</td> <td>e (FRNE2S-4GB) 0002 0004 0006 0007 0012 0022 0029 0037 0044 0059 0072 0085 0105 0139 0168 ninally Applied motor (HP) putrating) *1 1/4 1/2 1 1.5 3 3 5 7.5 10 10 15 20 25 30 30 Rated Capacity (kVA) *2 0.71 1.2 1.9 2.4 4.5 6.4 9.6 11.1 13.5 16.0 18.3 24.0 30.3 36.0 43.9 Rated Capacity (kVA) *2 0.71 1.2 1.9 2.4 4.5 6.4 9.6 11.1 13.5 16.0 18.3 24.0 30.3 36.0 43.9 Rated Current (A) 0.9 1.5 2.3 3.0 5.6 8.0 12.0 14.0 17.0 20.0 23.0 30.0 38.0 45.0 55.0 Rated Current (w/o DCR) 1.7 3.1 5.9 8.2 13.0 23.2 33 43.8 52.3 60.6 77.9 94.3</td> <td>e (FRNE2S-4GB) 0002 0004 0006 0007 0012 0022 0029 0037 0044 0059 0072 0085 0105 0139 0168 0203 ninally Applied motor (HP) putrating) *1 1/4 1/2 1 1.5 3 3 5 7.5 10 10 15 20 25 30 30 40 Rated Capacity (kVA) *2 0.71 1.2 1.9 2.4 4.5 6.4 9.6 11.1 13.5 16.0 18.3 24.0 30.3 36.0 43.9 48.6 Rated Current (A) 0.9 1.5 2.3 3.0 5.6 8.0 12.0 14.0 17.0 20.0 23.0 30.0 38.0 45.0 55.0 61.0 Rated Current (w/o DCR) (A) 1.7 3.1 5.9 8.2 13.0 23.2 33 43.8 52.3 60.6 77.9 94.3 114 140 - (A) 0.85 1.6 3.0 4.4 7.3 14.4 21.1 28.8 35.5</td> <td>e (FRNE2S-4GB) 0002 0004 0006 0007 0012 0022 0029 0037 0044 0059 0072 0085 0105 0139 0168 0203 0240 ninally Applied motor (HP) putrating) *1 1/4 1/2 1 1.5 3 3 5 7.5 10 10 15 20 25 30 30 40 50 Rated Capacity (kVA) *2 0.71 1.2 1.9 2.4 4.5 6.4 9.6 11.1 13.5 16.0 18.3 24.0 30.3 36.0 43.9 48.6 57.4 Rated Capacity (kVA) *2 0.71 1.2 1.9 2.4 4.5 6.4 9.6 11.1 13.5 16.0 18.3 24.0 30.3 36.0 43.9 48.6 57.4 Rated Current (A) 0.9 1.5 2.3 3.0 5.6 8.0 12.0 14.0 17.0 20.0 23.0 30.0 38.0 45.0 55.0 61.0 72.0 Rated Current (w/o DCR) (A) 0.85 1.6<td>e (FRNE2S-4GB) 0002 0004 0006 0007 0012 0022 0029 0037 0044 0059 0072 0085 0105 0139 0168 0203 0240 0290 ninally Applied motor (HP) putrating) *1 1/4 1/2 1 1.5 3 3 5 7.5 10 10 15 20 25 30 30 40 50 60 Rated Capacity (kVA) *2 0.71 1.2 1.9 2.4 4.5 6.4 9.6 11.1 13.5 16.0 18.3 24.0 30.3 36.0 43.9 48.6 57.4 68.5 Rated Current (A) 0.9 1.5 2.3 3.0 5.6 8.0 12.0 14.0 17.0 20.0 23.0 30.0 38.0 45.0 55.0 61.0 72.0 86.0 Rated Current (w/o DCR) (A) 1.7 3.1 5.9 8.2 13.0 23.2 33 43.8 52.3 60.6 77.9 94.3 114 140 - - - <td< td=""><td>e (FRNEZS-4GB) 0002 0004 0006 0007 0012 0022 0029 0037 0044 0059 0072 0085 0105 0139 0168 0203 0240 0290 0361 ninally Applied motor (HP) putating) *1 1/4 1/2 1 1.5 3 3 5 7.5 10 10 15 20 25 30 30 40 50 60 60 60 Rated Capacity (kVA) *2 0.71 1.2 1.9 2.4 4.5 6.4 9.6 11.1 13.5 16.0 18.3 24.0 30.3 36.0 43.9 48.6 57.4 68.5 82.0 Rated Current (A) 0.9 1.5 2.3 3.0 5.6 8.0 12.0 14.0 17.0 20.0 23.0 30.0 38.0 45.0 55.0 61.0 72.0 86.0 103.0 Rated Current (w/o DCR) 1.7 3.1 5.9 8.2 13.0 23.2 33 43.8 52.3 60.6 77.9 94.3 114 1</td><td>e (FRNEZS-4GB) 0002 0004 0006 0007 0012 0022 0029 0037 0044 0059 0072 0085 0105 0139 0168 0203 0240 0290 0361 0415 ninally Applied motor (HP) 1/4 1/2 1 1.5 3 3 5 7.5 10 10 15 20 25 30 30 40 50 60 60 75 Rated Capacity (kVA) *2 0.71 1.2 1.9 2.4 4.5 6.4 9.6 11.1 13.5 16.0 18.3 24.0 30.3 36.0 43.9 48.6 57.4 68.5 82.0 97.2 Rated Current (A) 0.9 1.5 2.3 3.0 5.6 8.0 12.0 14.0 17.0 20.0 23.0 30.0 38.0 45.0 55.0 61.0 72.0 86.0 103.0 122.0 Rated Current (w/o DCR) 1.7 3.1 5.9 8.2 13.0 23.2 33 43.8 52.3 60.6 77.9<td>e (FRNEZS-4GB) 0002 0004 0006 0007 0012 0022 0029 0037 0044 0059 0072 0085 0105 0139 0168 0203 0240 0290 0361 0415 0520 ninally Applied motor (HP) 1/4 1/2 1 1.5 3 3 5 7.5 10 10 15 20 25 30 30 40 50 60 60 75 100 Rated Capacity (kVA) *2 0.71 1.2 1.9 2.4 4.5 6.4 9.6 11.1 13.5 16.0 18.3 24.0 30.3 36.0 43.9 48.6 57.4 68.5 82.0 97.2 118.8 Rated Current (A) 0.9 1.5 2.3 3.0 5.6 8.0 12.0 14.0 17.0 20.0 23.0 30.0 38.0 45.0 55.0 61.0 72.0 86.0 103.0 122.0 149.0 Rated Current (w/o DCR) 1.7 3.1 5.9 8.2 13.0 23.2 33<!--</td--></td></td></td<></td></td> | e (FRNE2S-4GB) 0002 0004 0006 0007 0012 0022 0029 0037 0044 0059 0072 0085 0105 0139 ninally Applied motor (HP) putrating) *1 1/4 1/2 1 1.5 3 3 5 7.5 10 10 15 20 25 30 Rated Capacity (kVA) *2 0.71 1.2 1.9 2.4 4.5 6.4 9.6 11.1 13.5 16.0 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*1 US 4P standard induction motor

*2 Rated capacity is calculated assuming the rated voltage as 230V for 230V and 460V for 460V series

For further information: Refer to the **Frenic-Ace** Instruction Manual.