

(4) Common applicable tools

| Class      | Motor Output (kW)    | Inverter model       | Power lines R,S,T U,V,W, P,PD,N (mm <sup>2</sup> ) | External resistor between P and RB (mm <sup>2</sup> ) | Screw size of Terminal | Torque (N•m) | Applicable Tools    |         |                                  |
|------------|----------------------|----------------------|--|---|------------------------|--------------|---------------------|---------|----------------------------------|
|            |                      |                      |  |   |                        |              | Leak breaker (MCCB) |         | Electro-magnetic Controller (MC) |
| 200V Class | 5.5                  | N700E-055LF/075LFP   | More than 6  | 6   | M4                     | 1.2          | HBS60N              | 50A     | HiMC32                           |
|            | 7.5                  | N700E-075LF/110LFP   | More than 10                                       | 6   | M4                     | 1.2          | HBS60N              | 50A     | HiMC32                           |
|            | 11                   | N700E-110LF/150LFP   | More than 16                                       | 6   | M5                     | 3.0          | HBS100N             | 75A     | HiMC50                           |
|            | 15                   | N700E-150LF/185LFP   | More than 25                                       | 16  | M5                     | 3.0          | HBS100N             | 100A    | HiMC65                           |
|            | 18.5                 | N700E-185LF/220LFP   | More than 30                                       | 16  | M6                     | 4.5          | HBS225N             | 150A    | HiMC80                           |
|            | 22                   | N700E-220LF          | More than 35                                       | 16  | M6                     | 4.5          | HBS225N             | 150A    | HiMC110                          |
| 400V Class | 5.5                  | N700E-055HF/075HFP   | More than 4  | 4   | M4                     | 1.2          | HBS30N              | 30A     | HiMC18                           |
|            | 7.5                  | N700E-075HF/110HFP   | More than 4  | 4   | M4                     | 1.2          | HBS30N              | 30A     | HiMC18                           |
|            | 11                   | N700E-110HF/150HFP   | More than 6  | 6   | M4                     | 1.2          | HBS60N              | 50A     | HiMC32                           |
|            | 15                   | N700E-150HF/185HFP   | More than 10                                       | 10  | M5                     | 3.0          | HBS100N             | 50A     | HiMC40                           |
|            | 18.5                 | N700E-185HF/220HFP   | More than 16                                       | 10  | M5                     | 3.0          | HBS100N             | 75A     | HiMC40                           |
|            | 22                   | N700E-220HF/300HFP   | More than 25                                       | 10  | M5                     | 3.0          | HBS100N             | 75A     | HiMC50                           |
|            | 30                   | N700E-300HF/370HFP   | More than 25                                       | -   | M6                     | 4.5          | HBS100N             | 100A    | HiMC65                           |
|            | 37                   | N700E-370HF/450HFP   | More than 35                                       | -   | M6                     | 4.5          | HBS225N             | 100A    | HiMC80                           |
|            | 45                   | N700E-450HF/550HFP   | More than 35                                       | -   | M8                     | 6.0          | HBS225N             | 150A    | HiMC110                          |
|            | 55                   | N700E-550HF/750HFP   | More than 70                                       | -   | M8                     | 6.0          | HBS225N             | 175A    | HiMC130                          |
|            | 75                   | N700E-750HF/900HFP   | More than 35x2                                     | -   | M8                     | 6.0          | HBS400N             | 225A    | HiMC180                          |
|            | 90                   | N700E-900HF/1100HFP  | More than 35x2                                     | -   | M8                     | 6.0          | HBS400N             | 225A    | HiMC220                          |
|            | 110                  | N700E-1100HF/1320HFP | More than 50x2                                     | -   | M10                    | 10.0         | HBS400N             | 350A    | HiMC260                          |
|            | 132                  | N700E-1320HF/1600HFP | More than 80x2                                     | -   | M10                    | 10.0         | HBS400N             | 350A    | HiMC300                          |
|            | 160                  | N700E-1600HF/2000HFP | More than 90x2                                     | -   | M10                    | 10.0         | HBS400N             | 311A    | HiMC400                          |
|            | 220                  | N700E-2200HF/2500HFP | More than 110x2                                    | -   | M10                    | 10.0         | HBS600N             | 427A    | HiMC500                          |
| 280        | N700E-2800HF/3200HFP | More than 150x2      | -  | M10   | 10.0                   | HBS800N      | 544A                | HiMC630 |                                  |
| 350        | N700E-3500HF/3800HFP | More than 180x2      | -  | M10   | 10.0                   | HBS800N      | 680A                | HiMC800 |                                  |

Table 2-6 Common applicable tools for N700E inverters(Heavy Duty)

| Class      | Motor Output (kW)    | Inverter model       | Power lines R,S,T U,V,W, P,PD,N (mm <sup>2</sup> ) | External resister between P and RB (mm <sup>2</sup> ) | Screw size of Terminal | Torque (N•m) | Applicable Tools    |         |                                  |
|------------|----------------------|----------------------|--|---|------------------------|--------------|---------------------|---------|----------------------------------|
|            |                      |                      |  |   |                        |              | Leak breaker (MCCB) |         | Electro-magnetic Controller (MC) |
| 200V Class | 5.5                  |                      | More than 6  | 6   | M4                     | 1.2          | HBS60N              | 50A     | HiMC32                           |
|            | 7.5                  | N700E-055LF/075LFP   | More than 10                                       | 6   | M4                     | 1.2          | HBS60N              | 50A     | HiMC32                           |
|            | 11                   | N700E-075LF/110LFP   | More than 16                                       | 6   | M5                     | 3.0          | HBS100N             | 75A     | HiMC50                           |
|            | 15                   | N700E-110LF/150LFP   | More than 25                                       | 16  | M5                     | 3.0          | HBS100N             | 100A    | HiMC65                           |
|            | 18.5                 | N700E-150LF/185LFP   | More than 30                                       | 16  | M6                     | 4.5          | HBS225N             | 150A    | HiMC80                           |
|            | 22                   | N700E-185LF/220LFP   | More than 35                                       | 16  | M6                     | 4.5          | HBS225N             | 150A    | HiMC110                          |
| 400V Class | 5.5                  |                      | More than 4  | 4   | M4                     | 1.2          | HBS30N              | 30A     | HiMC18                           |
|            | 7.5                  | N700E-055HF/075HFP   | More than 4  | 4   | M4                     | 1.2          | HBS30N              | 30A     | HiMC18                           |
|            | 11                   | N700E-075HF/110HFP   | More than 6  | 6   | M4                     | 1.2          | HBS60N              | 50A     | HiMC32                           |
|            | 15                   | N700E-110HF/150HFP   | More than 10                                       | 10  | M5                     | 3.0          | HBS100N             | 50A     | HiMC40                           |
|            | 18.5                 | N700E-150HF/185HFP   | More than 16                                       | 10  | M5                     | 3.0          | HBS100N             | 75A     | HiMC40                           |
|            | 22                   | N700E-185HF/220HFP   | More than 25                                       | 10  | M5                     | 3.0          | HBS100N             | 75A     | HiMC50                           |
|            | 30                   | N700E-220HF/300HFP   | More than 25                                       | -   | M6                     | 4.5          | HBS100N             | 100A    | HiMC65                           |
|            | 37                   | N700E-300HF/370HFP   | More than 35                                       | -   | M6                     | 4.5          | HBS225N             | 100A    | HiMC80                           |
|            | 45                   | N700E-370HF/450HFP   | More than 35                                       | -   | M8                     | 6.0          | HBS225N             | 150A    | HiMC110                          |
|            | 55                   | N700E-450HF/550HFP   | More than 70                                       | -   | M8                     | 6.0          | HBS225N             | 175A    | HiMC130                          |
|            | 75                   | N700E-550HF/750HFP   | More than 35x2                                     | -   | M8                     | 6.0          | HBS400N             | 225A    | HiMC180                          |
|            | 90                   | N700E-750HF/900HFP   | More than 35x2                                     | -   | M8                     | 6.0          | HBS400N             | 225A    | HiMC220                          |
|            | 110                  | N700E-900HF/1100HFP  | More than 50x2                                     | -   | M10                    | 10.0         | HBS400N             | 350A    | HiMC260                          |
|            | 132                  | N700E-1100HF/1320HFP | More than 80x2                                     | -   | M10                    | 10.0         | HBS400N             | 350A    | HiMC300                          |
|            | 160                  | N700E-1320HF/1600HFP | More than 80x2                                     | -   | M10                    | 10.0         | HBS400N             | 350A    | HiMC300                          |
|            | 200                  | N700E-1600HF/2000HFP | More than 100x2                                    | -   | M14                    | 10.0         | HBS400N             | 389A    | HiMC400                          |
| 250        | N700E-2200HF/2500HFP | More than 130x2      | -  | M14   | 10.0                   | HBS600N      | 486A                | HiMC500 |                                  |
| 320        | N700E-2800HF/3200HFP | More than 160x2      | -  | M14   | 10.0                   | HBS800N      | 622A                | HiMC630 |                                  |
| 375        | N700E-3500HF/3800HFP | More than 190x2      | -  | M14   | 10.0                   | HBS1000N     | 729A                | HiMC800 |                                  |

Table 2-7 Common applicable tools for N700E inverters(Normal Duty, P-type)