**MODBUS RTU REGISTER MAP FOR TDS V8 DRIVES**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Register Address (Hex/Dec) | Parameter Name | Function Code (Read/Write) | Data Type | Scaling/Unit | Description |
| Control Registers (Read/Write) |  |  |  |  |  |
| 0000H (0) | **Control Word** | 06H / 10H | 16-bit | - | **Bit 0:** 0=STOP, 1=RUN **Bit 1:** 0=Forward, 1=Reverse **Bit 2:** External Fault (0=disable; 1=enable) **Bit 3:** Fault Reset (0=disable; 1=enable, rising edge) **Bit 8:** 0=disable; 1=switch from PRG to DRV mode **Bit 9:** 0=disable; 1=switch from DRV to PRG mode |
| 0001H (1) | **Frequency Command** | 06H / 10H | 16-bit | 30000 = 100% | Main frequency command. 100% = value of parameter Cn-02 (Max. Output Frequency). |
| 0002H (2) | **Reserved** | - | - | - | Reserved. |
| 0003H (3) | **Reserved** | - | - | - | Reserved. |
| 0004H (4) | **Reserved** | - | - | - | Reserved. |
| 0005H (5) | **Reserved** | - | - | - | Reserved. |
| 0006H (6) | **Reserved** | - | - | - | Reserved. |
| 0007H (7) | **Output Terminal Control** | 06H / 10H | 16-bit | - | **Bit 0:** Output terminal R1A-R1B-R1C (0=disable; 1=enable) **Bit 1:** Output terminal DO1-DOG (0=disable; 1=enable) **Bit 2:** Output terminal R2A-R2C (0=disable; 1=enable) |
| 0008H (8) | **Reserved** | - | - | - | Reserved. |
| 0009H (9) | **Reserved** | - | - | - | Reserved. |
| 000AH (10) | **Reserved** | - | - | - | Reserved. |
| 000BH (11) | **Reserved** | - | - | - | Reserved. |
| 000CH (12) | **Reserved** | - | - | - | Reserved. |
| 000DH (13) | **Reserved** | - | - | - | Reserved. |
| 000EH (14) | **Reserved** | - | - | - | Reserved. |
| 000FH (15) | **Reserved** | - | - | - | Reserved. |
| Monitor Registers (Read-Only) |  |  |  |  |  |
| 0020H (32) | **Status Word 1** | 03H | 16-bit | - | **Bit 0:** 0=STOP; 1=RUNNING **Bit 1:** 1=Zero Speed **Bit 2:** 0=Forward; 1=Reverse **Bit 3:** 1=Inverter Ready **Bit 4:** 0=PRG mode; 1=DRV mode **Bit 5:** 0=220V series; 1=440V series **Bit 6:** 1=Inverter Alarm **Bit 7:** 1=Inverter Fault |
| 0021H (33) | **Status Word 2 (Faults)** | 03H | 16-bit | - | **Bit 0:** Under Voltage Fault (UV1) **Bit 1:** Over Current Fault (OC) **Bit 2:** Over Voltage Fault (OV) **Bit 3:** Over heat Fault (OH) **Bit 4:** Motor Over Load Fault (OL1) **Bit 5:** Inverter Over Load Fault (OL2) **Bit 6:** Output Over Torque Fault (OL3) **Bit 7:** External Fault 3 (EF3) **Bit 8:** External Fault 5 (EF5) **Bit 9:** External Fault 6 (EF6) **Bit 10:** External Fault 7 (EF7) **Bit 11:** External Fault 8 (EF8) **Bit 12:** EEPROM Fault **Bit 13:** CPU A/D Fault **Bit 14:** Ground Fault (GF) |
| 0022H (34) | **Status Word 3 (Alarms)** | 03H | 16-bit | - | **Bit 2:** 1=Braking Resistor Over Heat Alarm **Bit 3:** 1=RS-485 Communication transfer Alarm |
| 0023H (35) | **Status Word 4 (Alarms)** | 03H | 16-bit | - | **Bit 0:** 1=Under Voltage Alarm (UV) **Bit 1:** 1=Over Voltage Alarm (OV) **Bit 2:** 1=Over Heat Alarm (OH) **Bit 3:** 1=Over Torque Alarm (OL3) **Bit 4:** 1=External Alarm (EF) **Bit 5:** 1=Base Block Alarm (bb) **Bit 6:** 1=EEPROM Alarm **Bit 7:** 1=External Alarm 3 **Bit 11:** 1=Braking Resistor Over Heat Alarm **Bit 12:** 1=RS-485 Communication Alarm |
| 0024H (36) | **Frequency Command (Monitor)** | 03H | 16-bit | 30000 = 100% | Currently active frequency command value. |
| 0025H (37) | **Output Frequency** | 03H | 16-bit | 30000 = 100% | Real-time output frequency to the motor. |
| 0026H (38) | **Output Voltage** | 03H | 16-bit | 1 V / 1 | Real-time output voltage (RMS). |
| 0027H (39) | **Output Current** | 03H | 16-bit | 0.1 A / 1 | Real-time output current (RMS). |
| 0028H (40) | **DC Bus Voltage** | 03H | 16-bit | 1 V / 1 | Voltage of the internal DC bus. |
| 0029H (41) | **Analog Input VIN** | 03H | 16-bit | 10V = 100.0% | Value of analog input VIN. |
| 002AH (42) | **Analog Input AIN** | 03H | 16-bit | 20mA = 100.0% | Value of analog input AIN. |
| 002BH (43) | **Analog Input AUX** | 03H | 16-bit | 10V = 100.0% | Value of analog input AUX. |
| 002CH (44) | **Digital Input Status** | 03H | 16-bit | - | **Bit 0:** Terminal 1 (0=Open; 1=Close) **Bit 1:** Terminal 2 **Bit 2:** Terminal 3 **Bit 3:** Terminal 4 **Bit 4:** Terminal 5 **Bit 5:** Terminal 6 **Bit 6:** Terminal 7 **Bit 7:** Terminal 8 |
| 002DH (45) | **Analog Output AO1** | 03H | 16-bit | 10V = 100.0% | Value of the analog output AO1. |
| 002EH (46) | **Analog Output AO2** | 03H | 16-bit | 10V = 100.0% | Value of the analog output AO2. |
| 002FH (47) | **Digital Output Status** | 03H | 16-bit | - | **Bit 0:** Terminals R1A-R1B-R1C (0=Open; 1=Close) **Bit 1:** Terminals DO1-DOG **Bit 2:** Terminals R2A-R2C |
| Parameter Registers (Read/Write) |  |  |  |  |  |
| 0100H (256) | **An-01 Frequency Command 1** | 03H / 06H / 10H | 16-bit | 0.01 Hz | 0.00~400.00 Hz |
| 0101H (257) | **An-02 Frequency Command 2** | 03H / 06H / 10H | 16-bit | 0.01 Hz | 0.00~400.00 Hz |
| 0102H (258) | **An-03 Frequency Command 3** | 03H / 06H / 10H | 16-bit | 0.01 Hz | 0.00~400.00 Hz |
| ... | **... (An-04 to An-16)** | ... | ... | ... | ... |
| 0110H (272) | **An-17 Jog Frequency Command** | 03H / 06H / 10H | 16-bit | 0.01 Hz | 0.00~400.00 Hz |
| 0200H (512) | **Bn-01 Acceleration time 1** | 03H / 06H / 10H | 16-bit | 0.1 s | 0.0~6000.0s |
| 0201H (513) | **Bn-02 Deceleration time 1** | 03H / 06H / 10H | 16-bit | 0.1 s | 0.0~6000.0s |
| ... | **... (Bn-03 to Bn-38)** | ... | ... | ... | ... |
| 0300H (768) | **Cn-01 Input Voltage** | 03H / 06H / 10H | 16-bit | 0.1 V | 150.0~255.0V (x2 for 440V) |
| 0301H (769) | **Cn-02 Max. Output Frequency** | 03H / 06H / 10H | 16-bit | 0.1 Hz | 50.0~400.0Hz |
| ... | **... (Cn-03 to Cn-51)** | ... | ... | ... | ... |
| 0400H (1024) | **Sn-01 Inverter Capacity** | 03H / 06H / 10H | 16-bit | - | 01~13 |
| 0401H (1025) | **Sn-02 V/F Curve selection** | 03H / 06H / 10H | 16-bit | - | 00~15 |
| 0402H (1026) | **Sn-03 Operation mode** | 03H / 06H / 10H | 16-bit | - | 00~14 |
| 0403H (1027) | **Sn-04 Run Source selection** | 03H / 06H / 10H | 16-bit | - | 0~2 (2=RS-485) |
| 0404H (1028) | **Sn-05 Frequency Command selection** | 03H / 06H / 10H | 16-bit | - | 0~2 (2=RS-485) |
| ... | **... (Sn-06 to Sn-61)** | ... | ... | ... | ... |
| 0423H (1059) | **Sn-36 Inverter Address** | 03H / 06H / 10H | 16-bit | - | 1~31 (Slave Address) |
| 0424H (1060) | **Sn-37 Baud Rate** | 03H / 06H / 10H | 16-bit | - | 0=1200, 1=2400, 2=4800, **3=9600** |
| 0425H (1061) | **Sn-38 Parity** | 03H / 06H / 10H | 16-bit | - | 0=None, 1=Even, 2=Odd |
| 0426H (1062) | **Sn-39 Comm Fault stop selection** | 03H / 06H / 10H | 16-bit | - | 0~3 |
| ... | **...** | ... | ... | ... | ... |
| 0500H (1280) | **Save to EEPROM** | 06H / 10H | 16-bit | - | Write 000H to save all parameter changes to non-volatile memory. |

**Modbus RTU Example Frames**

CRC16 values are calculated according to the algorithm described in the manual.

**1. Read Output Current (Address 0x0027 / 39)**

* **Request:** 01 03 00 1B 00 01 B4 0E
  + 01 = Address 1
  + 03 = Function Code (Read Holding Registers)
  + 00 1B = Start Address (0x0027 = 39dec)
  + 00 01 = Number of registers to read (1)
  + B4 0E = CRC16
* **Response (Current = 12.3A → 123):** 01 03 02 00 7B F8 4A
  + 01 = Address 1
  + 03 = Function Code
  + 02 = Byte Count (2 bytes)
  + 00 7B = Data (0x007B = 123dec → 12.3A)
  + F8 4A = CRC16

**2. Read Output Frequency (Address 0x0025 / 37)**

* **Request:** 01 03 00 19 00 01 55 CE
  + 00 19 = Start Address (0x0025 = 37dec)
  + 55 CE = CRC16
* **Response (Freq = 50.00Hz, Cn-02=50.00Hz → 30000 = 100%):** 01 03 02 75 30 71 21
  + 02 = Byte Count
  + 75 30 = Data (0x7530 = 30000dec)
  + 71 21 = CRC16

**3. Write Frequency Reference = 50.00 Hz (Address 0x0001)**  
\*(Assuming Cn-02 (Max Freq) is 50.00Hz, so 50.00Hz = 100% = 30000)\*

* **Request (Write Single Register - 06H):** 01 06 00 01 75 30 08 1A
  + 01 = Address 1
  + 06 = Function Code (Write Single Register)
  + 00 01 = Target Address (0x0001)
  + 75 30 = Data to write (0x7530 = 30000)
  + 08 1A = CRC16
* **Response (Echoes the request):** 01 06 00 01 75 30 08 1A

**4. Read Active Fault Register (Address 0x0021 / 33)**

* **Request:** 01 03 00 15 00 01 95 CF
  + 00 15 = Start Address (0x0021 = 33dec)
  + 95 CF = CRC16
* **Response (No active faults):** 01 03 02 00 00 B8 4A
  + 02 = Byte Count
  + 00 00 = Data (0x0000 = No fault bits are set)
  + B8 4A = CRC16

**Complete Parameter Register Map (An, Bn, Cn, Sn)**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Dec Address | Hex Address | Parameter | Unit | Setting Range | Description |
| An Parameters (Frequency Commands) |  |  |  |  |  |
| 256 | 0x0100 | **An-01** | 0.01Hz | 0.00~400.00 Hz | Frequency Command 1 |
| 257 | 0x0101 | **An-02** | 0.01Hz | 0.00~400.00 Hz | Frequency Command 2 |
| 258 | 0x0102 | **An-03** | 0.01Hz | 0.00~400.00 Hz | Frequency Command 3 |
| 259 | 0x0103 | **An-04** | 0.01Hz | 0.00~400.00 Hz | Frequency Command 4 |
| 260 | 0x0104 | **An-05** | 0.01Hz | 0.00~400.00 Hz | Frequency Command 5 |
| 261 | 0x0105 | **An-06** | 0.01Hz | 0.00~400.00 Hz | Frequency Command 6 |
| 262 | 0x0106 | **An-07** | 0.01Hz | 0.00~400.00 Hz | Frequency Command 7 |
| 263 | 0x0107 | **An-08** | 0.01Hz | 0.00~400.00 Hz | Frequency Command 8 |
| 264 | 0x0108 | **An-09** | 0.01Hz | 0.00~400.00 Hz | Frequency Command 9 |
| 265 | 0x0109 | **An-10** | 0.01Hz | 0.00~400.00 Hz | Frequency Command 10 |
| 266 | 0x010A | **An-11** | 0.01Hz | 0.00~400.00 Hz | Frequency Command 11 |
| 267 | 0x010B | **An-12** | 0.01Hz | 0.00~400.00 Hz | Frequency Command 12 |
| 268 | 0x010C | **An-13** | 0.01Hz | 0.00~400.00 Hz | Frequency Command 13 |
| 269 | 0x010D | **An-14** | 0.01Hz | 0.00~400.00 Hz | Frequency Command 14 |
| 270 | 0x010E | **An-15** | 0.01Hz | 0.00~400.00 Hz | Frequency Command 15 |
| 271 | 0x010F | **An-16** | 0.01Hz | 0.00~400.00 Hz | Frequency Command 16 |
| 272 | 0x0110 | **An-17** | 0.01Hz | 0.00~400.00 Hz | Jog Frequency Command |
| Bn Parameters (Basic Settings) |  |  |  |  |  |
| 512 | 0x0200 | **Bn-01** | 0.1s | 0.0~6000.0s | Acceleration time 1 |
| 513 | 0x0201 | **Bn-02** | 0.1s | 0.0~6000.0s | Deceleration time 1 |
| 514 | 0x0202 | **Bn-03** | 0.1s | 0.0~6000.0s | Acceleration time 2 |
| 515 | 0x0203 | **Bn-04** | 0.1s | 0.0~6000.0s | Deceleration time 2 |
| 516 | 0x0204 | **Bn-05** | 0.1% | 0.0~1000.0% | Analog frequency command VIN gain |
| 517 | 0x0205 | **Bn-06** | 0.1% | -100.0~100.0% | Analog frequency command VIN bias |
| 518 | 0x0206 | **Bn-07** | 0.1% | 0.0~1000.0% | Analog frequency command AIN gain |
| 519 | 0x0207 | **Bn-08** | 0.1% | -100.0~100.0% | Analog frequency command AIN bias |
| 520 | 0x0208 | **Bn-09** | 0.1% | 0.0~1000.0% | Analog multi-function input AUX gain |
| 521 | 0x0209 | **Bn-10** | 0.1% | -100.0~100.0% | Analog multi-function input AUX bias |
| 522 | 0x020A | **Bn-11** | 0.01 | 0.01~2.55 | Analog multi-function output AO1 gain |
| 523 | 0x020B | **Bn-12** | 0.01 | 0.01~2.55 | Analog multi-function output AO2 gain |
| 524 | 0x020C | **Bn-13** | 0.01 | 0.01~10.00 | PID Detection gain |
| 525 | 0x020D | **Bn-14** | 0.01 | 0.01~10.00 | PID Proportion gain (P) |
| 526 | 0x020E | **Bn-15** | 0.01s | 0.00~100.00s | PID Integral Time (I) |
| 527 | 0x020F | **Bn-16** | 0.01s | 0.00~1.00s | PID Differential time (D) |
| 528 | 0x0210 | **Bn-17** | 1% | 0~109% | PID Deviation |
| 529 | 0x0211 | **Bn-18** | 1% | 50~150% | Power saving gain |
| 530 | 0x0212 | **Bn-19** | 0.1 | 0.0~2.0 | Auto torque compensation gain |
| 531 | 0x0213 | **Bn-20** | 0.1s | 0.0~6000.0s | Timer ON delay time |
| 532 | 0x0214 | **Bn-21** | 0.1s | 0.0~6000.0s | Timer OFF delay time |
| 533 | 0x0215 | **Bn-22** | 0.1s | 0.0~6000.0s | 1st Step Time Under Auto Run Mode |
| 534 | 0x0216 | **Bn-23** | 0.1s | 0.0~6000.0s | 2nd Step Time Under Auto Run Mode |
| 535 | 0x0217 | **Bn-24** | 0.1s | 0.0~6000.0s | 3rd Step Time Under Auto Run Mode |
| 536 | 0x0218 | **Bn-25** | 0.1s | 0.0~6000.0s | 4th Step Time Under Auto Run Mode |
| 537 | 0x0219 | **Bn-26** | 0.1s | 0.0~6000.0s | 5th Step Time Under Auto Run Mode |
| 538 | 0x021A | **Bn-27** | 0.1s | 0.0~6000.0s | 6th Step Time Under Auto Run Mode |
| 539 | 0x021B | **Bn-28** | 0.1s | 0.0~6000.0s | 7th Step Time Under Auto Run Mode |
| 540 | 0x021C | **Bn-29** | 0.1s | 0.0~6000.0s | 8th Step Time Under Auto Run Mode |
| 541 | 0x021D | **Bn-30** | 0.1s | 0.0~6000.0s | 9th Step Time Under Auto Run Mode |
| 542 | 0x021E | **Bn-31** | 0.1s | 0.0~6000.0s | 10th Step Time Under Auto Run Mode |
| 543 | 0x021F | **Bn-32** | 0.1s | 0.0~6000.0s | 11th Step Time Under Auto Run Mode |
| 544 | 0x0220 | **Bn-33** | 0.1s | 0.0~6000.0s | 12th Step Time Under Auto Run Mode |
| 545 | 0x0221 | **Bn-34** | 0.1s | 0.0~6000.0s | 13th Step Time Under Auto Run Mode |
| 546 | 0x0222 | **Bn-35** | 0.1s | 0.0~6000.0s | 14th Step Time Under Auto Run Mode |
| 547 | 0x0223 | **Bn-36** | 0.1s | 0.0~6000.0s | 15th Step Time Under Auto Run Mode |
| 548 | 0x0224 | **Bn-37** | 0.1s | 0.0~6000.0s | 16th Step Time Under Auto Run Mode |
| 549 | 0x0225 | **Bn-38** | - | 00~15 | Display content after Power ON |
| Cn Parameters (Main Control) |  |  |  |  |  |
| 768 | 0x0300 | **Cn-01** | 0.1V | 150.0~255.0V¹ | Input Voltage |
| 769 | 0x0301 | **Cn-02** | 0.1Hz | 50.0~400.0Hz | Max. Output Frequency |
| 770 | 0x0302 | **Cn-03** | 0.1V | 0.1~255.0V¹ | Max. Voltage |
| 771 | 0x0303 | **Cn-04** | 0.1Hz | 0.1~400.0Hz | Frequency of the Max. Voltage |
| 772 | 0x0304 | **Cn-05** | 0.1Hz | 0.1~400.0Hz | Middle Output Frequency |
| 773 | 0x0305 | **Cn-06** | 0.1V | 0.1~255.0V¹ | Voltage at Middle Output Frequency |
| 774 | 0x0306 | **Cn-07** | 0.1Hz | 0.1~400.0Hz | Min. Output Frequency |
| 775 | 0x0307 | **Cn-08** | 0.1V | 0.1~255.0V¹ | Voltage at Min. Output Frequency |
| 776 | 0x0308 | **Cn-09** | 0.1A | \*² | Motor Rated Current |
| 777 | 0x0309 | **Cn-10** | 1% | 0~99% | No Load Current of Motor |
| 778 | 0x030A | **Cn-11** | 0.1% | 0~9.9% | Rated Slip of Motor |
| 779 | 0x030B | **Cn-12** | 0.001Ω | 0~65.535Ω | Line to Line Resistor of Motor |
| 780 | 0x030C | **Cn-13** | 1W | 0~65535W | Motor ferrous loss |
| 781 | 0x030D | **Cn-14** | 0.1Hz | 0.1~10.0Hz | DC Injection Braking Starting Frequency |
| 782 | 0x030E | **Cn-15** | 1% | 0~100% | DC Brake Current |
| 783 | 0x030F | **Cn-16** | 0.1s | 0.0~25.5s | DC Injection Braking Time at Stop |
| 784 | 0x0310 | **Cn-17** | 0.1s | 0.0~25.5s | DC Injection Braking Time at Start |
| 785 | 0x0311 | **Cn-18** | 1% | 0~109% | Frequency Command Upper Bound |
| 786 | 0x0312 | **Cn-19** | 1% | 0~109% | Frequency Command Lower Bound |
| 787 | 0x0313 | **Cn-20** | 0.1Hz | 0.0~400.0Hz | Frequency Jump Point 1 |
| 788 | 0x0314 | **Cn-21** | 0.1Hz | 0.0~400.0Hz | Frequency Jump Point 2 |
| 789 | 0x0315 | **Cn-22** | 0.1Hz | 0.0~400.0Hz | Frequency Jump Point 3 |
| 790 | 0x0316 | **Cn-23** | 0.1Hz | 0.0~25.5Hz | Frequency Jump Range |
| 791 | 0x0317 | **Cn-24** | - | 0~10 | Number of times, Reset after fault |
| 792 | 0x0318 | **Cn-25** | 1% | 30~200% | Stall Prevention During Acceleration |
| 793 | 0x0319 | **Cn-26** | 1% | 30~200% | Stall Prevention During Running |
| 794 | 0x031A | **Cn-27** | 0.1s | 0.0~25.5s | Communication Fault Detection Time |
| 795 | 0x031B | **Cn-28** | - | 0~39999 | Display mode, Digital Controller |
| 796 | 0x031C | **Cn-29** | 0.1Hz | 0.0~400.0Hz | Random Frequency Detection Level, accelerating |
| 797 | 0x031D | **Cn-30** | 0.1Hz | 0.0~400.0Hz | Random Frequency Detection Level, decelerating |
| 798 | 0x031E | **Cn-31** | 0.1Hz | 0.1~25.5Hz | Detection amplitude, for consistent Frequency |
| 799 | 0x031F | **Cn-32** | 1% | 30~200% | Detection Level, Over Torque |
| 800 | 0x0320 | **Cn-33** | 0.1s | 0.0~25.5s | Detection Time, Over Torque |
| 801 | 0x0321 | **Cn-34** | - | 1~6 | Carrier Frequency Setting |
| 802 | 0x0322 | **Cn-35** | 1% | 0~200% | Speed Search Detection Level |
| 803 | 0x0323 | **Cn-36** | 0.1s | 0.1~25.5s | Speed Search Time |
| 804 | 0x0324 | **Cn-37** | 0.1s | 0.5~5.0s | Min. Base Block Time |
| 805 | 0x0325 | **Cn-38** | 1% | 10~100% | V/F Curve in Speed Searching |
| 806 | 0x0326 | **Cn-39** | 1V | 150~210V | Detection Level, Under Voltage |
| 807 | 0x0327 | **Cn-40** | 0.1s | 0.0~1.0s | S-curve Characteristic Time at Accel. Start |
| 808 | 0x0328 | **Cn-41** | 0.1s | 0.0~1.0s | S-curve Characteristic Time at Accel. End |
| 809 | 0x0329 | **Cn-42** | 0.1s | 0.0~1.0s | S-curve Characteristic Time at Decel. Start |
| 810 | 0x032A | **Cn-43** | 0.1s | 0.0~1.0s | S-curve Characteristic Time at Decel. End |
| 811 | 0x032B | **Cn-44** | 1% | 0~109% | PID Integral Upper Bound |
| 812 | 0x032C | **Cn-45** | 0.1s | 0.0~2.5s | PID Primary Delay Time Constant |
| 813 | 0x032D | **Cn-46** | 0.001Ω | 0.000~65.535Ω | Resistance, Motor winding |
| 814 | 0x032E | **Cn-47** | 0.001Ω | 0.000~65.535Ω | Resistance, Motor Rotor |
| 815 | 0x032F | **Cn-48** | 0.01mH | 0.00~655.35mH | Motor Equivalent Inductance Leak |
| 816 | 0x0330 | **Cn-49** | 0.1mH | 0.0~6553.5 mH | Motor Equivalent Inductance |
| 817 | 0x0331 | **Cn-50** | 0.01 | 0.00~2.55 | Slip Compensation Gain |
| 818 | 0x0332 | **Cn-51** | 0.1s | 0.0~25.5s | Slip Compensation Delay |
| Sn Parameters (Special Functions) |  |  |  |  |  |
| 1024 | 0x0400 | **Sn-01** | - | 01~13 | Inverter Capacity |
| 1025 | 0x0401 | **Sn-02** | - | 00~15 | V/F Curve selection |
| 1026 | 0x0402 | **Sn-03** | - | 00~14 | Operation and initiation modes |
| 1027 | 0x0403 | **Sn-04** | - | 0~2 | Run Source selection |
| 1028 | 0x0404 | **Sn-05** | - | 0~2 | Frequency Command selection |
| 1029 | 0x0405 | **Sn-06** | - | 0~3 | STOP method selection |
| 1030 | 0x0406 | **Sn-07** | - | 0~1 | Controller STOP button selection |
| 1031 | 0x0407 | **Sn-08** | - | 0~1 | Prohibition of REV run |
| 1032 | 0x0408 | **Sn-09** | - | 0~1 | Output frequency Up/Down function |
| 1033 | 0x0409 | **Sn-10** | - | 0~1 | UP/DOWN adjustment of output Frequency |
| 1034 | 0x040A | **Sn-11** | - | 0~3 | Analog Frequency Input command properties selection |
| 1035 | 0x040B | **Sn-12** | - | 0~1 | Analog Frequency Command Input properties selection |
| 1036 | 0x040C | **Sn-13** | - | 0~1 | ZERO Command Braking function selection |
| 1037 | 0x040D | **Sn-14** | - | 0~1 | Output Voltage Limit selection |
| 1038 | 0x040E | **Sn-15** | - | 0~1 | Stall prevention during Accel. function selection |
| 1039 | 0x040F | **Sn-16** | - | 0~1 | Stall prevention during Decel. function selection |
| 1040 | 0x0410 | **Sn-17** | - | 0~2 | Stall prevention during running function selection |
| 1041 | 0x0411 | **Sn-18** | - | 0~1 | Re-Start selection after momentary interruption |
| 1042 | 0x0412 | **Sn-19** | - | 0~4 | Motor overload protection select |
| 1043 | 0x0413 | **Sn-20** | - | 0~4 | Over Torque Detection select |
| 1044 | 0x0414 | **Sn-21** | - | 0~1 | Contact select for restart from emergency stop |
| 1045 | 0x0415 | **Sn-22** | - | 0~1 | External fault 3 contact selection |
| 1046 | 0x0416 | **Sn-23** | - | 0~1 | External fault 3 detection selection |
| 1047 | 0x0417 | **Sn-24** | - | 0~3 | External fault operation selection |
| 1048 | 0x0418 | **Sn-25** | - | 00~21 | DI 5 function selection |
| 1049 | 0x0419 | **Sn-26** | - | 01~22 | DI 6 function selection |
| 1050 | 0x041A | **Sn-27** | - | 02~23 | DI 7 function selection |
| 1051 | 0x041B | **Sn-28** | - | 03~24 | DI 8 function selection |
| 1052 | 0x041C | **Sn-29** | - | 00~11 | Aux function selection |
| 1053 | 0x041D | **Sn-30** | - | 00~25 | R1A-R1B-R1C function selection |
| 1054 | 0x041E | **Sn-31** | - | 00~25 | DO1 function selection |
| 1055 | 0x041F | **Sn-32** | - | 00~25 | R2A-R2C function selection |
| 1056 | 0x0420 | **Sn-33** | - | 01~16 | Multiplier select, Pulse output |
| 1057 | 0x0421 | **Sn-34** | - | 00~11 | AO1 function selection |
| 1058 | 0x0422 | **Sn-35** | - | 00~11 | AO2 function selection |
| 1059 | 0x0423 | **Sn-36** | - | 01~31 | Inverter Address |
| 1060 | 0x0424 | **Sn-37** | - | 0~3 | RS-485 communication baud rate setting |
| 1061 | 0x0425 | **Sn-38** | - | 0~2 | RS-485 communication transmission parity setting |
| 1062 | 0x0426 | **Sn-39** | - | 0~2 | RS-485 communication Fault stop selection |
| 1063 | 0x0427 | **Sn-40** | - | 0~1 | Selection of load |
| 1064 | 0x0428 | **Sn-41** | - | 0~1 | PID function selection |
| 1065 | 0x0429 | **Sn-42** | - | 0~1 | Brake resistor protection function select |
| 1066 | 0x042A | **Sn-43** | - | 0~1 | Motor parameter Auto-test function select |
| 1067 | 0x042B | **Sn-44** | - | 0~1 | Selection of Control modes |
| 1068 | 0x042C | **Sn-45** | - | 0~6 | Auto Run mode operation selection |
| 1069 | 0x042D | **Sn-46** | - | 0~2 | Auto Run mode operation selection 1 |
| 1070 | 0x042E | **Sn-47** | - | 0~2 | Auto Run mode operation selection 2 |
| 1071 | 0x042F | **Sn-48** | - | 0~2 | Auto Run mode operation selection 3 |
| 1072 | 0x0430 | **Sn-49** | - | 0~2 | Auto Run mode operation selection 4 |
| 1073 | 0x0431 | **Sn-50** | - | 0~2 | Auto Run mode operation selection 5 |
| 1074 | 0x0432 | **Sn-51** | - | 0~2 | Auto Run mode operation selection 6 |
| 1075 | 0x0433 | **Sn-52** | - | 0~2 | Auto Run mode operation selection 7 |
| 1076 | 0x0434 | **Sn-53** | - | 0~2 | Auto Run mode operation selection 8 |
| 1077 | 0x0435 | **Sn-54** | - | 0~2 | Auto Run mode operation selection 9 |
| 1078 | 0x0436 | **Sn-55** | - | 0~2 | Auto Run mode operation selection 10 |
| 1079 | 0x0437 | **Sn-56** | - | 0~2 | Auto Run mode operation selection 11 |
| 1080 | 0x0438 | **Sn-57** | - | 0~2 | Auto Run mode operation selection 12 |
| 1081 | 0x0439 | **Sn-58** | - | 0~2 | Auto Run mode operation selection 13 |
| 1082 | 0x043A | **Sn-59** | - | 0~2 | Auto Run mode operation selection 14 |
| 1083 | 0x043B | **Sn-60** | - | 0~2 | Auto Run mode operation selection 15 |
| 1084 | 0x043C | **Sn-61** | - | 0~2 | Auto Run mode operation selection 16 |
| EEPROM Save Command |  |  |  |  |  |
| 1280 | 0x0500 | **Save** | - | \*³ | Write 0000H to save all parameters to EEPROM |