

## DA98B SERIES AC SERVO DRIVER

### Characteristics

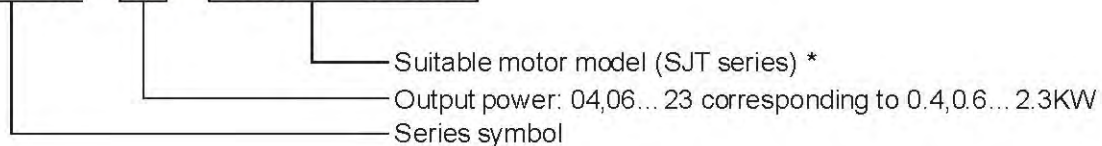


- The Max. position command pulse frequency improves to 1MHz; the servo motor encoder resolution increases to 5000; the command speed and position accuracy are enhanced, and the speed wave is reduced; the CNC matched with 0.1 $\mu$ m command accuracy can be carried out the  $\mu$ m level control accuracy.
- It achieves the speed feedforward control and enhances the dynamic response character and reduces the follow error.
- It improves the brake current and shortens the brake time. It can be connected the external brake resistance for the high-speed start/stop and the requirement of the big inertial load.
- It is added the position feedback output electronic gear function, which adapts the different requirements of the position feedback equivalent for the controller.
- It offers the special software of the integration homotaxial control function; the homotaxial cycle movement can be finished without the instruction control unit. The DA98B AC servo control equipment with the integration homotaxial control function has been gained Right of the Chinese Patent.

### Model



DA98B—10—110SJT—M040D





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## Technical Specification

|   |  |               |               |
|---|--|---------------|---------------|
| The rated power of the matched servo motor (kW) | 0.5~1.2  | 1.5~2.3       | 2.3~3.9       |
| Contour dimension (mm) (W×H×D)                  | 90×240×177.5   | 110×240×177.5 | 125×240×177.5 |
| Main power                                      | Three phases AC220V (85%~110%) 50/60Hz   |               |               |
| Power control                                   | Single phase AC220V (85%~110%) 50/60Hz   |               |               |
| Speed ratio                                     | 5000: 1  |               |               |
| Speed fluctuation ratio                         | < ±0.03%   |               |               |
| Speed frequency response                        | ≥200Hz   |               |               |
| Control Mode                                    | Position, External speed, Internal speed, JOG, Manual  |               |               |
| Position mode                                   | Position command mode: ① pulse + direction; ② CCW pulse/CW pulse; ③ A/B two phases orthogonal pulse.<br>The Max. pulse frequency: 1MHz<br>Position command electronic gear ratio: $\frac{1}{32767} \sim 32767$   |               |               |
| External speed mode                             | Two external speed commands: ① -10V~+10V analog voltage command speed and direction; ② 0V~+10V analog voltage command speed of which the operation direction is selected by the input signal.  |               |               |
| Internal speed mode                             | There are four kinds of speed can be set by parameters of which the operation speed is selected by the input signal.   |               |               |
| Position feedback input                         | The incremental encoder installed on the servo motor is regarded as position feedback input, A/B/Z/U/V/W differential signal. Encoder resolution is 5000pps / 2500 pps   |               |               |
| Position feedback output                        | Outputting the A/B/Z differential signal based upon the servo motor encoder input signal, which is regarded as position feedback output; the electronic gear ratio between the position feedback output and servo motor encoder input can be set to $1 \sim \frac{1}{32}$  |               |               |
| Input signal                                    | ① Servo enabling; ② Alarm clear; ③ CW forbiddance; ④ CCW forbiddance; ⑤ Zero speed clamping; ⑥ Error counter reset / Speed selection 1; ⑦ Command pulse forbiddance / Speed selection 2; ⑧ CCW torque limit; ⑨ CW torque limit; etc  |               |               |
| Output signal                                   | ① Servo already; ② Servo alarm; ③ Position arrival / Speed arrival; ④ Motor Brake release; ⑤ Zero speed output; ⑥ Z pulse feedback output. etc   |               |               |
| Protective function                             | It owns some protections, such as overvoltage, undervoltage, overcurrent, overload, Over speed, position error, brake abnormality and encoder abnormality.   |               |               |
| Operation and display                           | Four keys; the operations can be performed, such as manual, JOG and parameter modification, write and backup;<br>6-digit LED; The information can be displayed, such as speed, current position, command pulse accumulation, position error, motor torque, motor current, rotor absolute position and input/output signal state. |               |               |
| Brake mode                                      | Dynamic-brake, in-board brake resistance, and the external brake resistance can be selected.   |               |               |