

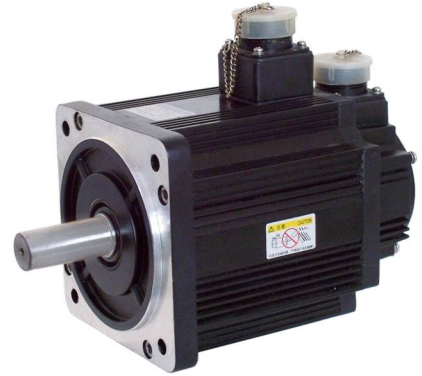
DA98B AC SERVO DRIVE UNIT

DA98B is an enhanced and upgraded product based on the DA98 AC servo drive unit; its capacity is improved and the function is added when the high reliability and good adaptability of the DA98 are reserved simultaneously.

- I 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 μ m command accuracy can be carried out the μ m level control accuracy.
- I It achieves the speed feedforward control and enhances the dynamic response character and reduces the follow error.
- I 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.
- I It is added the position feedback output electronic gear function, which adapts the different requirements of the position feedback equivalent for the controller.
- I 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.

DA98B AC servo drive equipment is an economical CNC machine, which can be improved the accuracy and efficiency; it is the best choice to enhance the grading of the product.





2 技术规格 Technical Specification

配套伺服电机 额定功率 (kW) The rated power of the matched servo motor (kW)	0.5 ~ 1.2	1.5 ~ 2.3	2.3 ~ 3.9
外形尺寸 (mm) (宽×高×深) Contour dimension (mm) (Width×Height×de pth)	90×240×177.5	110×240×177.5	125×240×177.5
主电源 Main power	三相 AC220V (85% ~ 110%) 50/60Hz Three phases AC220V (85% ~ 110%) 50/60Hz		
控制电源 Power control	单相 AC220V (85% ~ 110%) 50/60Hz Single phase AC220V (85% ~ 110%) 50/60Hz		
调速比 Speed ratio	5000 : 1		
速度波动率 Speed fluctuation ratio	< ±0.03%		
速度频率响应 Speed frequency response	200Hz		
定位精度 Positioning accuracy	±0.018° (对应 5000 线增量编码器的 1 个脉冲) ±0.018° (One pulse of an incremental encoder corresponds to the 5000 cables)		
工作方式 Working	手动、点动、内部速度、外部速度、位置、调零等工作方式。 (集成单轴功能时增加 2 种工作方式：单轴控制、单轴编程。) Manual, JOG, Internal speed, External speed, Position and Null (Two working modes are added when the integration homotaxial function is performed: homotaxial control, homotaxial program)		
内部速度方式 Internal speed mode	由参数设定 4 种速度，由输入信号选择运行速度。 There are four kinds of speed can be set by parameters of which the operation speed is selected by the input signal.		
外部速度方式 External speed	2 种外部速度指令： - 10V ~ +10V 模拟电压指令转速和方向； 0V ~ +10V 模拟电压指令转速，由输入信号选择运行方向。		

mode	Two external speed commands: - 10V ~ +10V analog voltage command speed and direction; 0V ~ +10V analog voltage command speed of which the operation direction is selected by the input signal.
位置方式 Position mode	位置指令模式：脉冲+方向； CCW 脉冲/CW 脉冲； A/B 两相正交脉冲。 最高脉冲频率：1MHz 位置指令电子齿轮比： $\frac{1}{32767} \sim 32767$ Position command mode: pulse + direction; CCW pulse/CW pulse; A/B two phases orthogonal pulse. The Max. pulse frequency: 1MHz Position command electronic gear ratio: $\frac{1}{32767} \sim 32767$
位置反馈输入 Position feedback input	以安装在伺服电机上的增量式编码器作为位置反馈输入，A/B/Z/U/V/W 差分信号，编码器分辨率为 5000 线。 The incremental encoder installed on the servo motor is regarded as position feedback input, A/B/Z/U/V/W differential signal, and the encoder resolution is 5000 cables.
位置反馈输出 Position feedback output	根据伺服电机编码器输入信号输出 A/B/Z 差分信号作为位置反馈输出，位置反馈输出与伺服电机编码器输入的电子齿轮比可设置为： $1 \sim \frac{1}{32}$ 。 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 $1 \sim \frac{1}{32}$.
输入信号 Input signal	伺服使能；报警清除；正向禁止；反向禁止；零速箝位；偏差计数器清零/速度选择 1；指令脉冲禁止/速度选择 2；CCW 转矩限制；CW 转矩限制；通用输入等 10 个输入点。 10 input points: Servo enabling; Alarm clear; Positive forbiddance; Negative forbiddance; Zero speed clamping; Error counter clear / Speed selection 1; Command pulse forbiddance / Speed selection 2; CCW torque limit; CW torque limit; Current input
输出信号 Output signal	伺服准备好；伺服报警；位置到达/速度到达；抱闸释放；零速输出；通用输出；Z 脉冲反馈输出等 7 个输出点。 7 output points: Servo already; Servo alarm; Position arrival / Speed arrival; Brake release; Zero speed output; General output; Z pulse feedback output.
保护功能 Protective function	具有过压、欠压、过流、过载、超速、位置超差、制动异常、编码器异常等保护。 It owns some protections, such as overvoltage, undervoltage, overcurrent, overload, overload, position error, brake abnormal and encoder abnormal.

操作与显示 Operation and display	<p>4 个按键，可进行手动、点动以及参数修改、设置、写入、备份等操作；</p> <p>6 位 LED，可显示转速、当前位置、指令脉冲积累、位置偏差、电机转矩、电机电流、转子绝对位置、输入输出信号状态等信息。</p> <p>Four keys; the operations can be performed, such as manual, JOG and parameter modification, write and backup;</p> <p>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.</p>
制动方式 Brake mode	<p>能耗制动，内置制动电阻，可选择外接制动电阻。</p> <p>Dynamic-brake, in-board brake resistance, and the external brake resistance can be selected.</p>