

List of alarm display and troubleshooting for EDB series

Item	Alarm name	Possible reason	Solution
A.01	Parameter breakdown	1.if power off when you are inputing the parameters,it will alarm next time when power is on 2.circuit board fault	1.set default value with Fn001 2.change the servo drive
A.02	A/D breakdown	1.Input reference readin make mistake 2.Input reference readin is not good	clear the alarm then operate again
A.03	Overspeed	1. The value of speed and position reference is too large. 2. wrong reference input gain 3.servo motor's wiring mistake 4.circuit board fault	1.reduce the value of input parameters 2.check if the connect and the parameters are all correct 3.check if the wiring is correct(U,V,W wiring) 4. change the sero drive
A.04	Overloaded	1.wrong U,V,W connection or disconnection 2.the load capacity surpass the rated torque in large scale 3.wrong encoder wirring or disconnection 4.the motor is too hot which lead to demagnetization 5.circuit board fault	1.reduce the torque and inertia of load or change a motor with large power. 2.check if the servo drive wirrings are connected well. 3.check if the wirings in encoder side are connected. 4.change the servo motor
A.05	Position error pulse overflow	1.wiring mistake 2.bad parameters of servo drive adjusting 3.the workload of motor is too large 4.frequency of reference pulse is too high 5.circuit board fault	1.increase the value of Pn013 and Pn015 2.reduce the torque and inertia of load or change a motor with large power. 3.a)slowly increase the frequency of command pulse.b)adding smooth function.c)amending electronic gear ratio
A.06	Position error pulse has exceeded the value	1.servo motor wirring mistake 2.parameter adjusting of servo drive is not good 3.the load capacity of motor is too large 4.frequency of position reference pulse is too high 5.circuit board fault	1.increase the value of Pn013 and Pn015 2.reduce the orque and inertia of load or change a motor with large power. 3.a)slowly increase the frequency of command pulse.b)adding smooth function.c)amending electronic gear ratio 4.check the wirring and correct them 5.change the servo drive
A.07	Electronic gear overlimited	the value of electronic gear ratio is too large	decrease the value of electronic gear ratio
A.08	U phase current feedback circuit abnormal	circuit board fault	change the servo drive
A.09	V phase current feedback circuit abnormal		
A.10	Encoder PA,PB or PC disconnected	1.At least one of PA,PB or PC is disconnected 2.encoder fault or disturbance from encoder circuit 3.circuit board fault	1.check if the encoder circuits are connected well 2.separate encoder circuit and main power supply circuit 3.change the motor or servo drive
A.11	Encoder PU,PV or PW disconnected	4.At least one of PU,PV or PW is disconnected	

A.12	Overcurrent	1.there are mistake or short between servo drive and motor wiring 2.U,V,W short or grounding 3.current feedback circuit,dynamic brake relay or circuit board faulty. 4.temperature around the servo drive exceed 55°c 5.bad air flow of radiator 6.fan stops working 7.overload 8.wrong initial phase of encoder 9.encoder faulty 10.servo motor winding short	1.check wirings and correct if any mistakes 2.change the servo motor 3.change the servo drive 4.drop the tamperature to or below 55°c 5.mounting according to the provision to make sure space around the servo drive 6.lighten load capacity
A.13	overvoltage	1.power supply for the main motor circuit exceed rating 2.regenerative transistor fault 3.commutation diode fault 4.circuit board fault 5.in the regenerative operation mode which is out of the regenerative ability	1.check the power supply 2.change the servo drive 3.check the load inertia and specification
A.14	Undervoltage	1. power supply for the main motor circuit is too low 2.fuse broken 3.commutation diode fault 4.circuit board fault	1.check the power supply 2.change the servo drive
A.15	Regenerative resistor breakdown	1.regenerative resistor breakdown 2.circuit board fault	1.change the servo drive or regenerative resistor 2.check the outside wirring of regenerative resistor
A.16	Regenerative error	1.regenerative transistor fault 2.circuit board fault 3.power supply voltage on the high side 4.regenerative power is out of permission value	1.change the servo drive 2.check the power supply 3.use the outside regenerative resistor matching the regenerative power capacity
A.20	Power lines open phase	1.At least one of L1,L2 or L3 is disconnected 2.there are low voltage phase in the wire 3.circuit board fault	1.a)check the power supply.b)check the main circuit board wirring.c)check the breaker,noise filter and electromagnetic contactor 2.check the power supply 3.change the servo dirve
A.21	Power loss error	a power interruption exceeding one cycle occurred in AC power supply.	1.power off,then after 0.5 second, turn on 2.check the power supply
A.30	the values of U,V,W phase in encoder are all 0 or 1	1.defective encoder 2.the noise outside disturbed the encoder	1.If those conditions happened frequently,pls change the servo motor 2.check and adjust the wirring in the encoder side
A.31	the pulse no.between A,B of U,V,W phase in encoder are wrong		
A.32	the pulse No. of A,B,C in encoder are wrong		
A.33	encoder do not check the C pulse		
A.41	Encoder type error	encoder type error	reset the parameters
A.42	Motor type error	motor type error	change a new motor
A.99	Not an error	normal status	