Problems and Troubleshooting Procedure

Inverter is provided with functions of warning and protection such as over voltage, low voltage and over current. Once fault occurs, protection function shall act, inverter output stops, fault contactor act and also free running of motor shall stop. For causes and corrective measures of fault, display of fault shall be taken for reference. Fault records shall be stored into computer memory inside AC motor drive (fault records for recent six times shall be available), and records shall be read at digital control keypad.

Attention shall be paid that, depressing RESET after fault shall only be available after fault has been eliminated.

Abnormality Occurrence and Troubleshooting

Alarm code	Display	Descriptions of fault	Corrective measures
d1	oc	Inverter detects over current at output side.	1.Check rated current of motor complies with that of inverter. 2.Check that there is no short circuit in U/T1, V/T2, and W/T3. 3.Check that no short circuit or grounding occur to connection of motor. 4.Check that screws are securely tightened to AC motor drive. 5.Increase acceleration time (1-09, 1-11). 6.Check there is no over load to motor.
d2	ou	Inverter detects over voltage at DC high voltage side.	1.Check input voltage is within rated voltage range of inverter, and see that no voltage surge occurs. 2.If over voltage occurs at DC high voltage side of inverter caused by inertia back up voltage, deceleration time shall be increased.
d3	oH	Inverter detects over heat, exceeding protection level.	1.Check that ambient environment is not over heat. 2.Check radiator and air fan is running. 3.Check enough clearance for air flowing is provided to inverter is with.
d4	oL	Output current exceeds allowable current of inverter. 60 sec shall be in station if 150% of rated current of AC motor drive is output.	1.Check motor over load. 2.Decrease torque (7-02) to improve set value. 3.Increase output capacity of AC motor drive.
d5	oL 1	Inner electric relay protection acts	1.Check motor over load. 2.Check rated current (07-00) of motor is proper.
d6	EF	Inverter stops output when external multifunction terminals (EF) and GND (Sink mode) closed.	Depress RESET key after alarm eliminated.

Alarm code	Display	Descriptions of fault	Corrective measures
d7~d8	Reserved		
d9	ocA	Over current during acceleration	1.Check screws securing AC motor drive and motor are tightened. 2.Check insulation of wiring from U/T1,V/T2,W/T3 to motor 3.Increase acceleration time 4.Decrease torque (7-02) to improve set value. 5.Replace with AC motor with larger output capacity.
d10	ocd	Over current during deceleration	1.Check insulation of wiring from U/T1,V/T2,W/T3 to motor 2.Increase deceleration time 3.Replace with AC motor drive with larger output capacity.
d11	ocn	Over current during running	1.Check insulation of wiring from U/T1,V/T2,W/T3 to motor 2.Check motor running normally 3.Replace AC motor drive with larger output capacity.
d12~d13	Reserved		
d14	Lu	DC high voltage side over low inside inverter.	1.Check power supply voltage is correct. 2.Check no sudden heavy load.
d15	cF1	Inner memory IC data writing fault	1.Supply power again after power off. 2.Factory maintenance and overhaul
d16	cF2	Inner memory IC data reading fault	1.Depress RESET key and reset parameter to factory setting. 2.If unavailable, search for factory maintenance and overhaul.
d17	bb	When the multi-function input terminal (M0-M3) is used to setting this function,it close with GND, and the AC motor driver stops output	“bb” shall disappear immediately after signal source eliminated.
d18	oL2	Motor load overlarge	1.Check motor load is not overlarge. 2.Check over-torque detection level setting .
d19	cFA	Auto accel/decel mode failure	1.Check AC motor drive complies with motor properly 2.Load back up inertia overlarge 3.Sudden load variation(06-03)

Alarm code	Display	Descriptions of fault	Corrective measures
d20	codE	Software protection activation	Factory maintenance and overhaul
d21	Reserved		
d22~d28	cF3.1 ~ cF3.7	CF3.1 Detects temperature circuit error CF3.2 Detects OU circuit error CF3.3 Detects low-voltage circuit error CF3.5 Detects over current at circuit .	Factory maintenance and overhaul.
d29~d31	HPF.1 ~ HPF.3	HPF.1 Detects OU circuit error HPF.2 Detects CLB circuit error HPF.3 Detects OC circuit error	Factory maintenance and overhaul.
d32	cE1	Communication fault	1.Check communication signals connection (SG+,SG-) 2.Check communication format is proper.
d33	Reserved		
d34	S-Er	Acceleration time is set to 0	Reset correct acceleration time
d35	Reserved		
d36	Sc	Abnormal control signals of IGBT bridge	1.If there is a major interference source, reduce the interference 2.Factory maintenance and overhaul.
d37	Errb	Abnormal setting wobble frequency, center frequency is less than the range,Max. wobble frequency is over input frequency range.	Reset correct wobble frequency parameter