JetMove Error Messages

Jetta Jetmove Motor Fault table

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Fault Number	Type of Fault	Description	Error Response	Rectification
Fault Number	Type of Fault	Description		Rectification
F 00	Hardware error	Internal hardware defect	Immediate controller disable	Separate the drive controller from the power lines Return the amplifier for repair
F01	Internal power supply error	One or more power supply voltages are beyond their limits.	Immediate controller disable	Separate the drive controller from the power lines Return the amplifier for repair
F 02	Mains phase error	The motion system has detected failure of one of the mains phases.	Immediate controller disable	Check fuses and wiring Acknowledge failure
F 03	Motor cable breakage	The motor cable is broken. Please note: The motor cable is tested at enabling the controller for the first time.	Immediate controller disable	Check the motor cable connections Acknowledge failure
F 04	Overvoltage in the DC link	A DC link voltage > 850 V has been detected.	Immediate controller disable	Check input power supply If the motor is used as a generator, reduce the regenerating power Acknowledge failure

F 05	Current overload	Output current was greater than 2.5 x rated current	Immediate controller disable	Check motor cable for short circuit between lines or lines to earth Check the current controller parameters. If necessary, correct the parameters Acknowledge failure
F 06	Ballast resistor overload	The ballast resistor has been overloaded	Immediate controller disable	Let the amplifier cool down When the motor has cooled down, acknowledge failure Reduce regeneration power
F 07	Amplifier overtemperature	The amplifier has reached the maximum temperature	Immediate controller disable	Let the amplifier cool down When the motor has cooled down, acknowledge failure Reduce power of the motion system
F 08	Motor overtemperature	The motor has reached the maximum temperature Also refer to Built-in thermal sensor", page 39	Immediate controller disable	Let the motor cool down When the motor has cooled down, acknowledge failure Reduce the average load of the motor
F 09	Encoder failure	Encoder breakage or initialization error	Immediate controller disable	For extended diagnostics purposes use Motion Setup Check the encoder line and all plug- in connections Acknowledge failure
F 10	Overspeed	The actual shaft speed has exceeded a value of 1.25 x maximum speed	Immediate controller disable	Check motor and encoder connections Control the speed parameters. Change parameters if necessary Acknowledge failure
F 11	Current overrange	A current temporarily too high has been detected	Immediate controller disable	
F 14 (combined with F 00)	Internal communication error	An internal communication error has occurred	Immediate controller disable	Switch the 24 V supply off and on again If the error occurs repeatedly, return the amplifier for repair
F 15	The hardware enable is missing.	The software enable is given without a hardware enable	Immediate controller disable	Disable the drive by means of the software Acknowledge failure
F 16	Power input overcurrent	The current at the power input is too high	Immediate controller disable	Check input voltage Reduce mechanical power of the motor Acknowledge failure

F 17	Trip of software limit switch	Actual position is outside the range of software limits; software limit switches are active	Stop at max. current (max. torque)	
F 18	Trip of hardware limit switch	One hardware limit switch is active	Stop at max. current (max. torque)	Check target position Check reference position Acknowledge failure Return the axis within the hardware limits (the software limit switches are activated automatically at entering this range)
F 20	Undervoltage in the DC link	The DC link voltage is less than the set minimum value	Stop with emergency deceleration ramp	Check the supply voltage Check parameter "Undervoltage DC link min. trip" Acknowledge failure
F 21	Overvoltage DC link voltage	The DC link voltage has exceeded the set maximum value	Stop with emergency deceleration ramp	Check the supply voltage In generator operation reduce braking power Acknowledge failure
F 22	The drive has stalled	The drive was not able to exceed the n=0 threshold within the time limit specified by the parameter "blocking-tripping time"	Immediate controller disable	Eliminate the cause of stalling Acknowledge failure
F 23	Tracking error	The tracking error has exceeded the limit defined in the parameter "tracking error limit" for the time specified in "tracking error window time"	Stop with emergency deceleration ramp	Check the drive mechanism Check steepness of acceleration/ deceleration ramps and amplifier parameters in relation to the parameters "tracking error limit" and "tracking error window time" Acknowledge failure
F 24 (combined with F 01)	Error in 24 V supply voltage	The external 24 V supply has actually been lower than 18 V	Immediate controller disable	Check external power supply Acknowledge failure
F 25 - F 27 (combined with F 01)	Internal power supply error	One or more internal supply voltages have fallen below their limits	Immediate controller disable	
F 28	Error in power charging circuit	The input current limitation circuit is defective	Immediate controller disable	
F 29	Mains power too high	The average mains power of the 400/ 480 V supply has been too high	Immediate controller disable	Acknowledge failure Reduce the average load of the motor

F 30	l²t error	The average power loss of the motor has been greater than the max. value configured by nominal motor current, overload factor and motor time constant. Refer to I ² t calculation", page 39	Immediate controller disable	Let the motor cool down When the motor has cooled down, acknowledge failure Check the configuration of nominal motor current, overload factor and motor time constant Reduce the average load of the motor
F 31	Motor overload protection to UL	Average motor power dissipation has been higher than defined according to UL. See chapter 5.2.3 "Motor overload protection according to UL", page 41	Immediate controller disable	Let the motor cool down Acknowledge failure Reduce the average load of the motor
F 38	Asymmetric encoder signal	The amplitudes of the analog sine- cosine signals are not identical	Immediate controller disable	Check wiring or encoder signals Acknowledge failure
F 39	Error at commutation finding	Measuring the commutation offset could not be completed with results being guaranteed	Immediate controller disable	Check parametering Check wiring or encoder signal Acknowledge failure
F 42	Malfunctioning of encoder 2 (only for the option CNT)	Encoder breakage or initialization error	Immediate controller disable	Check the encoder line and all plug-in connections Acknowledge failure

 ...Alarms If the dot in the display is flashing, one or several alarms have been recognized. Please check either in the Motion Setup, or by issuing the motion instructions in the controller program, which alarm is active.