Alarm messages generated by the drive

CODE	ALARM	CAUSE	WHAT TO DO
2001	OVERCURRENT *0308* bit 0 (programmable fault function *1610*)	Output current limit controller is active.	Check motor load. Check acceleration time (*2202* and *2205*). Check motor and motor cable (including phasing). Check ambient conditions. Load capacity decreases if installation site ambient temperature exceeds 40 °C. See section *Derating* on page *338*.
2002	OVERVOLTAGE *0308* bit 1 (programmable fault function *1610*)	DC overvoltage controller is active.	Check deceleration time (*2203* and *2206*). Check input power line for static or transient overvoltage.
2003	UNDERVOLTAGE *0308* bit 2 (programmable fault function *1610*)	DC undervoltage controller is active.	Check input power supply.
2004	DIR LOCK *0308* bit 3	Change of direction is not allowed.	Check parameter *1003 DIRECTION* settings.
2005	IO COMM *0308* bit 4 (programmable fault function *3018*, *3019*)	Fieldbus communication break	Check status of fieldbus communication. See chapter *Fieldbus control with the embedded fieldbus* on page *287*. Check fault function parameter settings. Check connections. Check if master can communicate.
2006	AI1 LOSS *0308* bit 5 (programmable fault function *3001*, *3021*)	Analog input AI1 signal has fallen below limit defined by parameter *3021 AI1 FAULT LIMIT*.	Check fault function parameter settings. Check for proper analog control signal levels. Check connections.
2007	AI2 LOSS *0308* bit 6 (programmable fault function *3001*, *3022*)	Analog input AI2 signal has fallen below limit defined by parameter *3022 AI2 FAULT LIMIT*.	Check fault function parameter settings. Check for proper analog control signal levels. Check connections.

CODE	ALARM	CAUSE	WHAT TO DO
2008	PANEL LOSS *0308* bit 7 (programmable fault function *3002*)	Control panel selected as active control location for drive has ceased communicating.	Check panel connection. Check fault function parameters. Check control panel connector. Refit control panel in mounting platform. If drive is in external control mode (REM) and is set to accept start/stop, direction commands or references through control panel: Check group *10 START/STOP/DIR* and *11 REFERENCE SELECT* settings.
2009	DEVICE OVERTEMP *0308* bit 8	Drive IGBT temperature is excessive. Alarm limit is 120 °C.	Check ambient conditions. See also section *Derating* on page *338*. Check air flow and fan operation. Check motor power against drive power.
2010	MOTOR TEMP *0308* bit 9 (programmable fault function *3005*…*3009* / *3503*)	Motor temperature is too high (or appears to be too high) due to excessive load, insufficient motor power, inadequate cooling or incorrect start-up data.	Check motor ratings, load and cooling. Check start-up data. Check fault function parameters.
		Measured motor temperature has exceeded alarm limit set by parameter *3503 ALARM LIMIT*.	Check value of alarm limit. Check that actual number of sensors corresponds to value set by parameter *3501 SENSOR TYPE*. Let motor cool down. Ensure proper motor cooling: Check cooling fan, clean cooling surfaces, etc.
2012	MOTOR STALL *0308* bit 11 (programmable fault function *3010*…*3012*)	Motor is operating in stall region due to eg excessive load or insufficient motor power.	Check motor load and drive ratings. Check fault function parameters.
2013 [1)]	AUTORESET *0308* bit 12	Automatic reset alarm	Check parameter group *31 AUTOMATIC RESET* settings.
2014 [1)]	AUTOCHANGE *0308* bit 13	PFC Autochange function is active.	See parameter group *81 PFC CONTROL*, section *PFC control macro* on page *110* and section *SPFC control macro* on page *111*.
2015	PFC I LOCK *0308* bit 14	PFC Interlocks are active.	Drive cannot start • any motor (when Autochange is used) • the speed regulated motor (when Autochange is not used). See parameter group *81 PFC CONTROL*.
2018 [1)]	PID SLEEP *0309* bit 1	Sleep function has entered sleeping mode.	See parameter groups *40 PROCESS PID SET 1*… *41 PROCESS PID SET 2*.

CODE	ALARM	CAUSE	WHAT TO DO
2021	START ENABLE 1 MISSING *0309* bit 4	No Start enable 1 signal received	Check parameter *1608 START ENABLE 1* settings. Check digital input connections. Check fieldbus communication settings.
2022	START ENABLE 2 MISSING *0309* bit 5	No Start enable 2 signal received	Check parameter *1609 START ENABLE 2* settings. Check digital input connections. Check fieldbus communication settings.
2023	EMERGENCY STOP *0309* bit 6	Drive has received emergency stop command and ramps to stop according to ramp time defined by parameter *2208 EMERG DEC TIME*.	Check that it is safe to continue operation. Return emergency stop push button to normal position.
2025	FIRST START *0309* bit 8	Motor identification magnetization is on. This alarm belongs to normal start-up procedure.	Wait until drive indicates that motor identification is completed.
2026	INPUT PHASE LOSS *0309* bit 9 (programmable fault function *3016*)	Intermediate circuit DC voltage is oscillating due to missing input power line phase or blown fuse. Alarm is generated when DC voltage ripple exceeds 14% of nominal DC voltage.	Check input power line fuses. Check for input power supply imbalance. Check fault function parameters.
2027	USER LOAD CURVE *0309* bit 10	Condition defined by *3701 USER LOAD C MODE* has been valid longer than half of the time set by *3703 USER LOAD C TIME*.	See parameter group *37 USER LOAD CURVE*.
2028	START DELAY *0309* bit 11	Start delay in progress	See parameter *2113 START DELAY*.
2030	INLET LOW *0309* bit 13	Pressure at pump/fan inlet too low	Check for a closed valve on the inlet side of the pump/fan. Check piping for leaks. See parameter group *44 PUMP PROTECTION*.
2031	OUTLET HIGH *0309* bit 14	Pressure at pump/fan outlet too high	Check piping for blocks. See parameter group *44 PUMP PROTECTION*.
2032	PIPE FILL *0309* bit 15	Pipe fill in progress	See parameters *4421*…*4426*.

CODE	ALARM	CAUSE	WHAT TO DO
2033	INLET VERY LOW *0310* bit 0	Pressure at pump/fan inlet too low	Check for a closed valve on the inlet side of the pump/fan. Check piping for leaks. See parameter group *44 PUMP PROTECTION*.
2034	OUTLET VERY HIGH *0310* bit 1	Pressure at pump/fan outlet too high	Check piping for blocks. See parameter group *44 PUMP PROTECTION*.
2038[1)]	MOTOR HEATING	Motor heating is active.	See parameter *2115 MOT. HEATING SEL*.

[1)] Even when the relay output is configured to indicate alarm conditions (eg parameter *1401 RELAY OUTPUT 1* = 5 (*ALARM*) or 16 (*FLT/ALARM*)), this alarm is not indicated by a relay output.