

6.4 List of fault displays

If the displayed message does not correspond to any of the following or if you have any other problem, contact your sales representative.

◆ Error message

- A message regarding operational fault and setting fault by the operation panel and the parameter unit is displayed. The inverter output is not shut off.

Operation panel indication	Name	Refer to page
HOLD	Operation panel lock	751
LOCd	Password locked	751
Er-1 to Er-4 Er-8	Parameter write error	751, 752
rE-1 to rE8	Copy operation fault	752, 753
Err.	Error	753

◆ Warning

- The inverter output is not shut off even when a warning is displayed. However, failure to take appropriate measures will lead to a fault.

Operation panel indication	Name	Refer to page
OL	Stall prevention (overcurrent)	754
oL	Stall prevention (overvoltage)	754
Rb	Regenerative brake pre-alarm	754
TH	Electronic thermal relay function pre-alarm	755
PS	PU stop	755
SL	Speed limit indication	755
CP	Parameter copy	755
SA	Safety stop	755
MF-1 to MF-3	Maintenance signal output	756
UF	USB host error	756
HP-1	Home position return setting error	756
HP-2	Home position return uncompleted	756
HP-3	Home position return parameter setting error	756

Operation panel indication	Name	Refer to page
CF	Continuous operation during communication fault	756
LdF	Load fault warning	756

◆ Alarm

- The inverter output is not shut off. An Alarm (LF) signal can also be output with a parameter setting.

Operation panel indication	Name	Refer to page
FN	Fan alarm	756
FN2	Internal fan alarm	757

◆ Fault

- When a protective function is activated, the inverter output is shut off and a Fault (ALM) signal is output.
- The data code is used for checking the fault detail via communication or with **Pr.997 Fault initiation**.

■ Data code 16 to 199

Operation panel indication	Name	Data code	Refer to page
E. OC-1	Overcurrent trip during acceleration	16 (H10)	757
E. OC-2	Overcurrent trip during constant speed	17 (H11)	758
E. OC-3	Overcurrent trip during deceleration or stop	18 (H12)	758
E. OV-1	Regenerative overvoltage trip during acceleration	32 (H20)	759
E. OV-2	Regenerative overvoltage trip during constant speed	33 (H21)	759
E. OV-3	Regenerative overvoltage trip during deceleration or	34 (H22)	759
E. THF	Inverter overload trip (electronic thermal relay)	48 (H30)	759
E. THM	Motor overload trip (electronic thermal relay)	49 (H31)	760
E. FIN	Heatsink overheat	64 (H40)	760
E. 1PF	Instantaneous power failure	80 (H50)	760
E. UVF	Undervoltage	81 (H51)	761
E. 1LF	Input phase loss	82 (H52)	761
E. OLF	Stall prevention stop	96 (H60)	761
E. SOR	Loss of synchronism detection	97 (H61)	762
E. LUP	Upper limit fault detection	98 (H62)	762
E. LDN	Lower limit fault detection	99 (H63)	762

Operation panel indication	Name	Data code	Refer to page
E. bE	Brake transistor alarm detection	112 (H70)	762
E. GF	Output side earth (ground) fault overcurrent	128 (H80)	762
E. LF	Output phase loss	129 (H81)	763
E. OHR	External thermal relay operation	144 (H90)	763
E. PTC	PTC thermistor operation	145 (H91)	763
E. OPR	Option fault	160 (HA0)	763
E. OP1	Communication option fault	161 (HA1)	764
E. OP2		162 (HA2)	
E. OP3		163 (HA3)	
E. 16	User definition error by the PLC function	164 (HA4)	764
E. 17		165 (HA5)	
E. 18		166 (HA6)	
E. 19		167 (HA7)	
E. 20		168 (HA8)	
E. PE	Parameter storage device fault	176 (HB0)	764
E. PUE	PU disconnection	177 (HB1)	764
E. REF	Retry count excess	178 (HB2)	765
E. PE2	Parameter storage device fault	179 (HB3)	765
E. CPU	CPU fault	192 (HC0)	765
E. CRE	Operation panel power supply short circuit/RS-485	193 (HC1)	765
E. P24	24 VDC power fault	194 (HC2)	765
E. Cdo	Abnormal output current detection	196 (HC4)	766
E. IOH	Inrush current limit circuit fault	197 (HC5)	766
E. SER	Communication fault (inverter)	198 (HC6)	766
E. AIE	Analog input fault	199 (HC7)	766

■ Data code 200 or more

Operation panel indication	Name	Data code	Refer to page
E. USB	USB communication fault	200 (HC8)	766
E. SAF	Safety circuit fault	201 (HC9)	767
E. Pbf	Internal circuit fault	202 (HCA)	767
E. 13		253 (HFD)	

Operation panel indication	Name	Data code	Refer to page
E. OS	Overspeed occurrence	208 (HD0)	767
E. OSd	Speed deviation excess detection	209 (HD1)	767
E. ECF	Signal loss detection	210 (HD2)	768
E. Od	Excessive position fault	211 (HD3)	768
E. Mb1	Brake sequence fault	213 (HD5)	768
E. Mb2		214 (HD6)	
E. Mb3		215 (HD7)	
E. Mb4		216 (HD8)	
E. Mb5		217 (HD9)	
E. Mb6		218 (HDA)	
E. Mb7		219 (HDB)	
E. EP	Encoder phase fault	220 (HDC)	768
E. MP	Magnetic pole position unknown	222 (HDE)	769
E. EF	External fault during output operation	224 (HE0)	769
E. IAH	Abnormal internal temperature	225 (HE1)	769
E. LCI	4 mA input fault	228 (HE4)	769
E. PCH	Pre-charge fault	229 (HE5)	769
E. PId	PID signal fault	230 (HE6)	770
E. 1	Option fault	241 (HF1)	770
E. 2		242 (HF2)	
E. 3		243 (HF3)	
E. 5	CPU fault	245 (HF5)	765
E. 6		246 (HF6)	
E. 7		247 (HF7)	
E. 11	Opposite rotation deceleration fault	251 (HFB)	770

◆ Others

- The fault history and the operation status of the inverter are displayed. It is not a fault indication.

Operation panel indication	Name	Refer to page
E - - - -	Fault history	746
E. 0	No fault history	770
EV	24 V external power supply operation	771

Operation panel indication	Name	Refer to page
	Backup in progress	771
	Restoration in progress	771

If faults other than the above appear, contact your sales representative.