

### I-Port event/error list

A list of CMMO events and errors are transmitted via I-Port

CMMO-ST-...LKP

Title ..... I-Port event/error list  
Version ..... 1.10  
Document no. .... 100163  
Original .....en  
Author .....Festo  
  
Last saved ..... 17.01.2018

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## 1 Components/Software used

Type/Name	Version Software/Firmware	Date of manufacture
CMMO-ST-...LKP	--	--
CTEU-xx	--	--
CAPC-F1-E-M12	--	--

Table 1.1: 1 Components/Software used

## 2 Event / error code list

Event code I-Port			CMMO Event No.	Event	Description
Error	Warning	Info			
6144 (1800 h)	6346 (18CA h)	36150 (8D36 h)	1 (01 h)	Software error	An internal firmware error has been detected.
6145 (1801 h)	6347 (18CB h)	36151 (8D37 h)	2 (02 h)	Default parameter file invalid	An error has been detected when examining the default parameter file. The file is damaged.
6146 (1802 h)	6348 (18CC h)	36152 (8D38 h)	3 (03 h)	Internal communication error CPUs	An error has been detected in internal communication.
6147 (1803 h)	6349 (18CD h)	36153 (8D39 h)	4 (04 h)	Non-permitted hardware	Internal electric circuitry is defective.
6148 (1804 h)	6350 (18CE h)	36154 (8D3A h)	5 (05 h)	Zero angle determination	The rotor position could not be clearly identified. The commutation point is invalid.
6149 (1805 h)	6351 (18CF h)	36155 (8D3B h)	6 (06 h)	Encoder	An error has occurred during evaluation of the encoder. The current position values may be incorrect.
6150 (1806 h)	6352 (18D0 h)	36156 (8D3C h)	7 (07 h)	Limit switch positive	The drive is on the positive limit switch.
6151 (1807 h)	6353 (18D1 h)	36157 (8D3D h)	8 (08 h)	Limit switch negative	The drive is on the negative limit switch.
6152 (1808 h)	6354 (18D2 h)	36158 (8D3E h)	9 (09 h)	Offset determination for current measurement	An error has occurred during initialization of the current measurement.
6153 (1809 h)	6355 (18D3 h)	36159 (8D3F h)	10 (0A h)	General error	An internal error has occurred.
6154 (180A h)	6356 (18D4 h)	36160 (8D40 h)	11 (0B h)	Parameter file invalid	No valid parameter set stored. Possibly after the parameter file was created, a firmware update was performed. Automatically, as many data from the parameter file as possible are loaded. Parameters that are not initialized by the parameter file are loaded from the default parameter file.
6155 (180B h)	6357 (18D5 h)	36161 (8D41 h)	12 (0C h)	Firmware update execution error	The firmware update has not been properly executed or completed.
6156 (180C h)	6358 (18D6 h)	36162 (8D42 h)	13 (0D h)	Overcurrent	Short circuit in the motor, in the lines or in the brake chopper. Output stage defective. Incorrect parameterisation of the current regulator.
6157 (180D h)	6359 (18D7 h)	36163 (8D43 h)	14 (0E h)	I <sup>2</sup> t malfunction motor	The I <sup>2</sup> t limit for the motor is reached. The motor or the drive system may be insufficient for the required task.
6158 (180E h)	6360 (18D8 h)	36164 (8D44 h)	15 (0F h)	Hardware error interface	Error in the communication module of the device
6159 (180F h)	6361 (18D9 h)	36165 (8D45 h)	16 (10 h)	Both limit switches active	Positive and negative limit switches are active simultaneously.
6160 (1810 h)	6362 (18DA h)	36166 (8D46 h)	17 (11 h)	Software limit positive	The position setpoint has reached or exceeded the respective software limit.
6161 (1811 h)	6363 (18DB h)	36167 (8D47 h)	18 (12 h)	Software limit negative	The position setpoint has reached or exceeded the respective software limit.

Event code I-Port			CMMO Event No.	Event	Description
Error	Warning	Info			
6162 (1812 h)	6364 (18DC h)	36168 (8D48 h)	19 (13 h)	Positive direction locked	A software limit error has occurred and subsequent positioning in the blocked direction has been initiated.
6163 (1813 h)	6365 (18DD h)	36169 (8D49 h)	20 (14 h)	Negative direction locked	A software limit error has occurred and subsequent positioning in the blocked direction has been initiated.
6164 (1814 h)	6366 (18DE h)	36170 (8D4A h)	21 (15 h)	Output stage temperature exceeded	The permissible limit value for the output stage temperature has been exceeded. The output stage is possibly overloaded.
6165 (1815 h)	6367 (18DF h)	36171 (8D4B h)	22 (16 h)	Output stage temperature too low	The ambient temperature is below the permissible range.
6166 (1816 h)	6368 (18E0 h)	36172 (8D4C h)	23 (17 h)	Logic voltage exceeded	The logic power supply monitor has detected an overvoltage. This is either due to an internal defect or an excessive supply voltage.
6167 (1817 h)	6369 (18E1 h)	36173 (8D4D h)	24 (18 h)	Logic voltage too low	The logic power supply monitor has detected an undervoltage. This is either due to an internal defect or an overload or short circuit caused by connected peripherals.
6168 (1818 h)	6370 (18E2 h)	36174 (8D4E h)	25 (19 h)	Real time error LM-CPU	The LM-CPU requires more computation time than is available to it.
6169 (1819 h)	6371 (18E3 h)	36175 (8D4F h)	26 (1A h)	Intermediate circuit voltage exceeded	Load voltage not within the permissible range. Braking resistor is overloaded; excessive braking energy that cannot be dissipated quickly enough. Braking resistor is defective.
6170 (181A h)	6372 (18E4 h)	36176 (8D50 h)	27 (1B h)	Intermediate circuit voltage too low	Load voltage too low.
6171 (181B h)	6373 (18E5 h)	36177 (8D51 h)	28 (1C h)	CAN Node Guarding, FB has master control	No node monitoring telegram received within the parameterised time.
6172 (181C h)	6374 (18E6 h)	36178 (8D52 h)	29 (1D h)	CAN bus comm. stopped by master, FB has master control	The master has stopped CAN-bus communication.
6173 (181D h)	6375 (18E7 h)	36179 (8D53 h)	30 (1E h)	NetX configuration error	Invalid configuration of the fieldbus-specific objects. The communication module was not parameterised correctly.
6174 (181E h)	6376 (18E8 h)	36180 (8D54 h)	31 (1F h)	NetX network error	An error has occurred in the bus communication with the master. The bus communication has been interrupted. Perhaps the network cable is defective or pulled out, or the controller has interrupted the connection.
6175 (181F h)	6377 (18E9 h)	36181 (8D55 h)	32 (20 h)	FHPP+ incorrect parameterisation	Parameterisation of the FHPP+ telegram entries is faulty. The PNU may not be present on the device or a 16-bit value has been mapped to an odd address.
6176 (1820 h)	6378 (18EA h)	36182 (8D56 h)	33 (21 h)	FHPP+ incorrect value	At least one PNU has been assigned a value outside the permissible range. The telegram has been ignored.
6177 (1821 h)	6379 (18EB h)	36183 (8D57 h)	34 (22 h)	Homing	Homing run to switch unsuccessful. A corresponding switch has not been found.

Event code I-Port			CMMO Event No.	Event	Description
Error	Warning	Info			
6178 (1822 h)	6380 (18EC h)	36184 (8D58 h)	35 (23 h)	No index pulse found	Error during homing: no zero pulse found. Encoder defective or incorrect parameterisation of the encoder resolution.
6179 (1823 h)	6381 (18ED h)	36185 (8D59 h)	36 (24 h)	Drive function is not supported in open-loop operation	Function is not supported in this mode. The request has been ignored.
6180 (1824 h)	6382 (18EE h)	36186 (8D5A h)	37 (25 h)	Path calculation	The positioning target cannot be reached through the positioning or edge condition options. When switching to the next record: the end speed of the last record was higher than the target speed of the following record.
6181 (1825 h)	6383 (18EF h)	36187 (8D5B h)	38 (26 h)	CAN fieldbus parameters missing	Parameterisation for operation on the CAN-bus is incomplete.
6182 (1826 h)	6384 (18F0 h)	36188 (8D5C h)	39 (27 h)	Save parameters	Error when writing the internal permanent memory.
6183 (1827 h)	6385 (18F1 h)	36189 (8D5D h)	40 (28 h)	Homing required	A valid homing process has not yet been conducted. The drive is no longer referenced (e.g. as a result of a logic power failure or because the homing method or axis zero point has been changed).
6184 (1828 h)	6386 (18F2 h)	36190 (8D5E h)	41 (29 h)	Target position behind negative software limit	The start of a positioning process has been suppressed because the target is located after the negative software limit.
6185 (1829 h)	6387 (18F3 h)	36191 (8D5F h)	42 (2A h)	Target position behind positive software limit	The start of a positioning process has been suppressed because the target is located after the positive software limit.
6186 (182A h)	6388 (18F4 h)	36192 (8D60 h)	43 (2B h)	Firmware update, invalid firmware	The firmware update process could not be performed. The firmware version is incompatible with the hardware used.
6187 (182B h)	6389 (18F5 h)	36193 (8D61 h)	44 (2C h)	FHPP incorrect record number	An attempt has been made to start a record with an invalid record number.
6188 (182C h)	6390 (18F6 h)	36194 (8D62 h)	45 (2D h)	I <sup>2</sup> t warning motor	The limit for I <sup>2</sup> t warning for the motor is reached.
6189 (182D h)	6391 (18F7 h)	36195 (8D63 h)	46 (2E h)	Index pulse too close on proximity sensor	The switching point of the proximity sensor is too close to the index pulse. This can in some cases mean that no reproducible homing position can be determined.
6190 (182E h)	6392 (18F8 h)	36196 (8D64 h)	47 (2F h)	Following error	The following error is too large. This error can occur during positioning and speed modes.
6191 (182F h)	6393 (18F9 h)	36197 (8D65 h)	48 (30 h)	Braking resistor	No braking resistor is connected.
6192 (1830 h)	6394 (18FA h)	36198 (8D66 h)	49 (31 h)	CVE connection	A connection error has occurred during "Control via Ethernet" (CVE).
6193 (1831 h)	6395 (18FB h)	36199 (8D67 h)	50 (32 h)	FCT connection with master control	Connection to the FCT has been interrupted.
6194 (1832 h)	6396 (18FC h)	36200 (8D68 h)	51 (33 h)	Output stage temperature warning	Temperature of output stage increased.
6195 (1833 h)	6397 (18FD h)	36201 (8D69 h)	52 (34 h)	Safe Torque Off (STO)	The "Safe Torque Off" safety function has been requested.



Event code I-Port			CMMO Event No.	Event	Description
Error	Warning	Info			
6196 (1834 h)	6398 (18FE h)	36202 (8D6A h)	53 (35 h)	CAN Node Guarding, FB does not have master control	There is no connection to the CAN master. The CAN bus does not currently have master control over the device.
6197 (1835 h)	6399 (18FF h)	36203 (8D6B h)	54 (36 h)	CAN bus comm. stopped by master, FB does not have master control	The CAN master has stopped bus communication. The CAN bus does not currently have master control over the device.
6198 (1836 h)	36000 (8CA0 h)	36204 (8D6C h)	55 (37 h)	Standstill monitoring	The actual position is outside the standstill window. Parameterisation of the window may be too narrow.
6199 (1837 h)	36001 (8CA1 h)	36205 (8D6D h)	56 (38 h)	Parameter file access	During a parameter file procedure all other reading and writing routines for the parameter file are blocked.
6200 (1838 h)	36002 (8CA2 h)	36206 (8D6E h)	57 (39 h)	Trace warning	An error has occurred during trace recording.
6201 (1839 h)	36003 (8CA3 h)	36207 (8D6F h)	58 (3A h)	Homing timeout	Error during homing process in open-loop operation. The switch has not been found within a certain time.
6202 (183A h)	36004 (8CA4 h)	36208 (8D70 h)	59 (3B h)	Homing method invalid	Homing error. For example, reference method block has been set in open-loop operation.
6203 (183B h)	36005 (8CA5 h)	36209 (8D71 h)	60 (3C h)	Two edges in one cycle	Two input signals have been set in the valve type in one input read cycle.
6204 (183C h)	36006 (8CA6 h)	36210 (8D72 h)	61 (3D h)	Start-up event	The device has been switched on or was switched on for longer than 48 days. This event also occurs when deleting the diagnostic memory. The Start-up event does not occur if the previous entry in the diagnostic memory already was a Start-up event.
6205 (183D h)	36007 (8CA7 h)	36211 (8D73 h)	62 (3E h)	Diagnostic memory	An error has occurred when writing or reading from the diagnostic memory.
6206 (183E h)	36008 (8CA8 h)	36212 (8D74 h)	63 (3F h)	Record invalid	The started record is invalid. The record data is implausible or the record type is invalid.
6207 (183F h)	36009 (8CA9 h)	36213 (8D75 h)	64 (40 h)	Last teaching not successful	Teaching of the current positioning record is not possible.
6208 (1840 h)	36010 (8CAA h)	36214 (8D76 h)	65 (41 h)	System reset	An internal firmware error has been detected.
6209 (1841 h)	36011 (8CAB h)	36215 (8D77 h)	66 (42 h)	Address Conflict Detection (ACD)	There are at least two participants in the network with identical network configuration.
6210 (1842 h)	36012 (8CAC h)	36216 (8D78 h)	67 (43 h)	FCT connection without master control	The connection to FCT has been disrupted. E.g.: Cable is disconnected.
6211 (1843 h)	36013 (8CAD h)	36217 (8D79 h)	68 (44 h)	Parameter file not compatible with firmware	The parameter-file currently being loaded is not compatible with the device firmware. As much data as possible will be automatically adopted from the parameter file. Parameters which could not be taken from the file will be replaced by those from the default parameter-file. If a new firmware version is required, it is possible that not all Parameters can be loaded.

Event code I-Port			CMMO Event No.	Event	Description
Error	Warning	Info			
6212 (1844 h)	36014 (8CAE h)	36218 (8D7A h)	69 (45 h)	IO-Link system error	Fault during initialization of the IO-Link protocol stack
6213 (1845 h)	36015 (8CAF h)	36219 (8D7B h)	70 (46 h)	IO-Link communication error	Fault during transmission of an IO-Link telegram
6214 (1846 h)	36016 (8CB0 h)	36220 (8D7C h)	71 (47 h)	Modbus connection with master control	The Modbus connection to the controller has been interrupted.
6215 (1847 h)	36017 (8CB1 h)	36221 (8D7D h)	72 (48 h)	Modbus connection without master control	There is no longer a connection to the controller, e.g. because the cable was disconnected.
6216 (1848 h)	36018 (8CB2 h)	36222 (8D7E h)	73 (49 h)	CAN message overflow or message lost	The CAN telegram memory is full if e.g. during a save procedure in the device, no telegrams can be processed. Data may get lost.
6217 (1849 h)	36019 (8CB3 h)	36223 (8D7F h)	74 (4A h)	Safe Torque Off (STO) discrepancy time	Control signals STO1 and STO2 did not occur concurrently are are wired in opposing polarities.
6218 (184A h)	36020 (8CB4 h)	36224 (8D80 h)	75 (4B h)	Interpolated Positioning Mode stopped while error occurred on control unit	In CANopen, Interpolated mode is enabled and, at the same time, a control fault or connection error has occurred.
6219 (184B h)	36021 (8CB5 h)	36225 (8D81 h)	76 (4C h)	Value is out of range	The object value could not be written because the value lies outside the permitted range of values.
6220 (184C h)	36022 (8CB6 h)	36226 (8D82 h)	77 (4D h)	Bootloader memory error	In the boot procedure, a defective memory cell was detected.
6221 (184D h)	36023 (8CB7 h)	36227 (8D83 h)	78 (4E h)	Overload 24V Outputs	A short circuit or overload has occurred to an external 24-V supply voltage of the device.
6222 (184E h)	36024 (8CB8 h)	36228 (8D84 h)	79 (4F h)	System information	A device-specific system event has occurred.
6223 (184F h)	36025 (8CB9 h)	36229 (8D85 h)	80 (50 h)	EtherCAT connection with master control	The EtherCAT connection to the controller has been interrupted.
6224 (1850 h)	36026 (8CBA h)	36230 (8D86 h)	81 (51 h)	EtherCAT connection without master control	The EtherCAT connection to the controller has been interrupted.
6225 (1851 h)	36027 (8CBB h)	36231 (8D87 h)	82 (52 h)	PROFINET connection with master control	The PROFINET connection to the controller has been interrupted.
6226 (1852 h)	36028 (8CBC h)	36232 (8D88 h)	83 (53 h)	PROFINET connection without master control	The PROFINET connection to the controller has been interrupted.
6144 (1800 h)	6346 (18CA h)	36150 (8D36 h)	1 (01 h)	Software error	An internal firmware error has been detected.
6145 (1801 h)	6347 (18CB h)	36151 (8D37 h)	2 (02 h)	Default parameter file invalid	An error has been detected when examining the default parameter file. The file is damaged.
6146 (1802 h)	6348 (18CC h)	36152 (8D38 h)	3 (03 h)	Internal communication error CPUs	An error has been detected in internal communication.
6147 (1803 h)	6349 (18CD h)	36153 (8D39 h)	4 (04 h)	Non-permitted hardware	Internal electric circuitry is defective.

Event code I-Port			CMMO Event No.	Event	Description
Error	Warning	Info			
6148 (1804 h)	6350 (18CE h)	36154 (8D3A h)	5 (05 h)	Zero angle determination	The rotor position could not be clearly identified. The commutation point is invalid.
6149 (1805 h)	6351 (18CF h)	36155 (8D3B h)	6 (06 h)	Encoder	An error has occurred during evaluation of the encoder. The current position values may be incorrect.
6150 (1806 h)	6352 (18D0 h)	36156 (8D3C h)	7 (07 h)	Limit switch positive	The drive is on the positive limit switch.
6151 (1807 h)	6353 (18D1 h)	36157 (8D3D h)	8 (08 h)	Limit switch negative	The drive is on the negative limit switch.
6152 (1808 h)	6354 (18D2 h)	36158 (8D3E h)	9 (09 h)	Offset determination for current measurement	An error has occurred during initialisation of the current measurement.
6153 (1809 h)	6355 (18D3 h)	36159 (8D3F h)	10 (0A h)	General error	An internal error has occurred.
6154 (180A h)	6356 (18D4 h)	36160 (8D40 h)	11 (0B h)	Parameter file invalid	No valid parameter set stored. Possibly after the parameter file was created, a firmware update was performed. Automatically, as many data from the parameter file as possible are loaded. Parameters that are not initialized by the parameter file are loaded from the default parameter file.
6155 (180B h)	6357 (18D5 h)	36161 (8D41 h)	12 (0C h)	Firmware update execution error	The firmware update has not been properly executed or completed.
6156 (180C h)	6358 (18D6 h)	36162 (8D42 h)	13 (0D h)	Overcurrent	Short circuit in the motor, in the lines or in the brake chopper. Output stage defective. Incorrect parameterisation of the current regulator.
6157 (180D h)	6359 (18D7 h)	36163 (8D43 h)	14 (0E h)	I <sup>2</sup> t malfunction motor	The I <sup>2</sup> t limit for the motor is reached. The motor or the drive system may be insufficient for the required task.
6158 (180E h)	6360 (18D8 h)	36164 (8D44 h)	15 (0F h)	Hardware error interface	Error in the communication module of the device
6159 (180F h)	6361 (18D9 h)	36165 (8D45 h)	16 (10 h)	Both limit switches active	Positive and negative limit switches are active simultaneously.
6160 (1810 h)	6362 (18DA h)	36166 (8D46 h)	17 (11 h)	Software limit positive	The position setpoint has reached or exceeded the respective software limit.
6161 (1811 h)	6363 (18DB h)	36167 (8D47 h)	18 (12 h)	Software limit negative	The position setpoint has reached or exceeded the respective software limit.
6162 (1812 h)	6364 (18DC h)	36168 (8D48 h)	19 (13 h)	Positive direction locked	A software limit error has occurred and subsequent positioning in the blocked direction has been initiated.
6163 (1813 h)	6365 (18DD h)	36169 (8D49 h)	20 (14 h)	Negative direction locked	A software limit error has occurred and subsequent positioning in the blocked direction has been initiated.
6164 (1814 h)	6366 (18DE h)	36170 (8D4A h)	21 (15 h)	Output stage temperature exceeded	The permissible limit value for the output stage temperature has been exceeded. The output stage is possibly overloaded.
6165 (1815 h)	6367 (18DF h)	36171 (8D4B h)	22 (16 h)	Output stage temperature too low	The ambient temperature is below the permissible range.

Event code I-Port			CMMO Event No.	Event	Description
Error	Warning	Info			
6166 (1816 h)	6368 (18E0 h)	36172 (8D4C h)	23 (17 h)	Logic voltage exceeded	The logic power supply monitor has detected an overvoltage. This is either due to an internal defect or an excessive supply voltage.
6167 (1817 h)	6369 (18E1 h)	36173 (8D4D h)	24 (18 h)	Logic voltage too low	The logic power supply monitor has detected an undervoltage. This is either due to an internal defect or an overload or short circuit caused by connected peripherals.
6168 (1818 h)	6370 (18E2 h)	36174 (8D4E h)	25 (19 h)	Real time error LM-CPU	The LM-CPU requires more computation time than is available to it.
6169 (1819 h)	6371 (18E3 h)	36175 (8D4F h)	26 (1A h)	Intermediate circuit voltage exceeded	Load voltage not within the permissible range. Braking resistor is overloaded; excessive braking energy that cannot be dissipated quickly enough. Braking resistor is defective.
6170 (181A h)	6372 (18E4 h)	36176 (8D50 h)	27 (1B h)	Intermediate circuit voltage too low	Load voltage too low.
6171 (181B h)	6373 (18E5 h)	36177 (8D51 h)	28 (1C h)	CAN Node Guarding, FB has master control	No node monitoring telegram received within the parameterised time.
6172 (181C h)	6374 (18E6 h)	36178 (8D52 h)	29 (1D h)	CAN bus comm. stopped by master, FB has master control	The master has stopped CAN-bus communication.
6173 (181D h)	6375 (18E7 h)	36179 (8D53 h)	30 (1E h)	NetX configuration error	Invalid configuration of the fieldbus-specific objects. The communication module was not parameterised correctly.
6174 (181E h)	6376 (18E8 h)	36180 (8D54 h)	31 (1F h)	NetX network error	An error has occurred in the bus communication with the master. The bus communication has been interrupted. Perhaps the network cable is defective or pulled out, or the controller has interrupted the connection.
6175 (181F h)	6377 (18E9 h)	36181 (8D55 h)	32 (20 h)	FHPP+ incorrect parameterisation	Parameterisation of the FHPP+ telegram entries is faulty. The PNU may not be present on the device or a 16-bit value has been mapped to an odd address.
6176 (1820 h)	6378 (18EA h)	36182 (8D56 h)	33 (21 h)	FHPP+ incorrect value	At least one PNU has been assigned a value outside the permissible range. The telegram has been ignored.
6177 (1821 h)	6379 (18EB h)	36183 (8D57 h)	34 (22 h)	Homing	Homing run to switch unsuccessful. A corresponding switch has not been found.
6178 (1822 h)	6380 (18EC h)	36184 (8D58 h)	35 (23 h)	No index pulse found	Error during homing: no zero pulse found. Encoder defective or incorrect parameterisation of the encoder resolution.
6179 (1823 h)	6381 (18ED h)	36185 (8D59 h)	36 (24 h)	Drive function is not supported in open-loop operation	Function is not supported in this mode. The request has been ignored.
6180 (1824 h)	6382 (18EE h)	36186 (8D5A h)	37 (25 h)	Path calculation	The positioning target cannot be reached through the positioning or edge condition options. When switching to the next record: the end speed of the last record was higher than the target speed of the following record.

Event code I-Port			CMMO Event No.	Event	Description
Error	Warning	Info			
6181 (1825 h)	6383 (18EF h)	36187 (8D5B h)	38 (26 h)	CAN fieldbus parameters missing	Parameterisation for operation on the CAN-bus is incomplete.
6182 (1826 h)	6384 (18F0 h)	36188 (8D5C h)	39 (27 h)	Save parameters	Error when writing the internal permanent memory.
6183 (1827 h)	6385 (18F1 h)	36189 (8D5D h)	40 (28 h)	Homing required	A valid homing process has not yet been conducted. The drive is no longer referenced (e.g. as a result of a logic power failure or because the homing method or axis zero point has been changed).
6184 (1828 h)	6386 (18F2 h)	36190 (8D5E h)	41 (29 h)	Target position behind negative software limit	The start of a positioning process has been suppressed because the target is located after the negative software limit.
6185 (1829 h)	6387 (18F3 h)	36191 (8D5F h)	42 (2A h)	Target position behind positive software limit	The start of a positioning process has been suppressed because the target is located after the positive software limit.
6186 (182A h)	6388 (18F4 h)	36192 (8D60 h)	43 (2B h)	Firmware update, invalid firmware	The firmware update process could not be performed. The firmware version is incompatible with the hardware used.
6187 (182B h)	6389 (18F5 h)	36193 (8D61 h)	44 (2C h)	FHPP incorrect record number	An attempt has been made to start a record with an invalid record number.
6188 (182C h)	6390 (18F6 h)	36194 (8D62 h)	45 (2D h)	I <sup>2</sup> t warning motor	The limit for I <sup>2</sup> t warning for the motor is reached.
6189 (182D h)	6391 (18F7 h)	36195 (8D63 h)	46 (2E h)	Index pulse too close on proximity sensor	The switching point of the proximity sensor is too close to the index pulse. This can in some cases mean that no reproducible homing position can be determined.
6190 (182E h)	6392 (18F8 h)	36196 (8D64 h)	47 (2F h)	Following error	The following error is too large. This error can occur during positioning and speed modes.
6191 (182F h)	6393 (18F9 h)	36197 (8D65 h)	48 (30 h)	Braking resistor	No braking resistor is connected.
6192 (1830 h)	6394 (18FA h)	36198 (8D66 h)	49 (31 h)	CVE connection	A connection error has occurred during "Control via Ethernet" (CVE).
6193 (1831 h)	6395 (18FB h)	36199 (8D67 h)	50 (32 h)	FCT connection with master control	Connection to the FCT has been interrupted.
6194 (1832 h)	6396 (18FC h)	36200 (8D68 h)	51 (33 h)	Output stage temperature warning	Temperature of output stage increased.
6195 (1833 h)	6397 (18FD h)	36201 (8D69 h)	52 (34 h)	Safe Torque Off (STO)	The "Safe Torque Off" safety function has been requested.
6196 (1834 h)	6398 (18FE h)	36202 (8D6A h)	53 (35 h)	CAN Node Guarding, FB does not have master control	There is no connection to the CAN master. The CAN bus does not currently have master control over the device.
6197 (1835 h)	6399 (18FF h)	36203 (8D6B h)	54 (36 h)	CAN bus comm. stopped by master, FB does not have master control	The CAN master has stopped bus communication. The CAN bus does not currently have master control over the device.
6198 (1836 h)	36000 (8CA0 h)	36204 (8D6C h)	55 (37 h)	Standstill monitoring	The actual position is outside the standstill window. Parameterisation of the window may be too narrow.

Event code I-Port			CMMO Event No.	Event	Description
Error	Warning	Info			
6199 (1837 h)	36001 (8CA1 h)	36205 (8D6D h)	56 (38 h)	Parameter file access	During a parameter file procedure all other reading and writing routines for the parameter file are blocked.
6200 (1838 h)	36002 (8CA2 h)	36206 (8D6E h)	57 (39 h)	Trace warning	An error has occurred during trace recording.
6201 (1839 h)	36003 (8CA3 h)	36207 (8D6F h)	58 (3A h)	Homing timeout	Error during homing process in open-loop operation. The switch has not been found within a certain time.
6202 (183A h)	36004 (8CA4 h)	36208 (8D70 h)	59 (3B h)	Homing method invalid	Homing error. For example, reference method block has been set in open-loop operation.
6203 (183B h)	36005 (8CA5 h)	36209 (8D71 h)	60 (3C h)	Two edges in one cycle	Two input signals have been set in the valve type in one input read cycle.
6204 (183C h)	36006 (8CA6 h)	36210 (8D72 h)	61 (3D h)	Start-up event	The device has been switched on or was switched on for longer than 48 days. This event also occurs when deleting the diagnostic memory. The Start-up event does not occur if the previous entry in the diagnostic memory already was a Start-up event.
6205 (183D h)	36007 (8CA7 h)	36211 (8D73 h)	62 (3E h)	Diagnostic memory	An error has occurred when writing or reading from the diagnostic memory.
6206 (183E h)	36008 (8CA8 h)	36212 (8D74 h)	63 (3F h)	Record invalid	The started record is invalid. The record data is implausible or the record type is invalid.
6207 (183F h)	36009 (8CA9 h)	36213 (8D75 h)	64 (40 h)	Last teaching not successful	Teaching of the current positioning record is not possible.
6208 (1840 h)	36010 (8CAA h)	36214 (8D76 h)	65 (41 h)	System reset	An internal firmware error has been detected.
6209 (1841 h)	36011 (8CAB h)	36215 (8D77 h)	66 (42 h)	Address Conflict Detection (ACD)	There are at least two participants in the network with identical network configuration.
6210 (1842 h)	36012 (8CAC h)	36216 (8D78 h)	67 (43 h)	FCT connection without master control	The connection to FCT has been disrupted. E.g.: Cable is disconnected.
6211 (1843 h)	36013 (8CAD h)	36217 (8D79 h)	68 (44 h)	Parameter file not compatible with firmware	The parameter-file currently being loaded is not compatible with the device firmware. As much data as possible will be automatically adopted from the parameter file. Parameters which could not be taken from the file will be replaced by those from the default parameter-file. If a new firmware version is required, it is possible that not all Parameters can be loaded.
6212 (1844 h)	36014 (8CAE h)	36218 (8D7A h)	69 (45 h)	IO-Link system error	Fault during initialization of the IO-Link protocol stack
6213 (1845 h)	36015 (8CAF h)	36219 (8D7B h)	70 (46 h)	IO-Link communication error	Fault during transmission of an IO-Link telegram
6214 (1846 h)	36016 (8CB0 h)	36220 (8D7C h)	71 (47 h)	Modbus connection with master control	The Modbus connection to the controller has been interrupted.
6215 (1847 h)	36017 (8CB1 h)	36221 (8D7D h)	72 (48 h)	Modbus connection without master control	There is no longer a connection to the controller, e.g. because the cable was disconnected.

Event code I-Port			CMMO Event No.	Event	Description
Error	Warning	Info			
6216 (1848 h)	36018 (8CB2 h)	36222 (8D7E h)	73 (49 h)	CAN message over- flow or message lost	The CAN telegram memory is full if e.g. during a save procedure in the device, no telegrams can be processed. Data may get lost.
6217 (1849 h)	36019 (8CB3 h)	36223 (8D7F h)	74 (4A h)	Safe Torque Off (STO) discrepancy time	Control signals STO1 and STO2 did not occur concurrently are are wired in opposing polarities.
6218 (184A h)	36020 (8CB4 h)	36224 (8D80 h)	75 (4B h)	Interpolated Position- ing Mode stopped while error occurred on control unit	In CANopen, Interpolated mode is enabled and, at the same time, a control fault or connection error has occurred.
6219 (184B h)	36021 (8CB5 h)	36225 (8D81 h)	76 (4C h)	Value is out of range	The object value could not be written because the value lies outside the permitted range of values.
6220 (184C h)	36022 (8CB6 h)	36226 (8D82 h)	77 (4D h)	Bootloader memory error	In the boot procedure, a defective memory cell was detected.
6221 (184D h)	36023 (8CB7 h)	36227 (8D83 h)	78 (4E h)	Overload 24V Out- puts	A short circuit or overload has occurred to an external 24-V supply voltage of the device.
6222 (184E h)	36024 (8CB8 h)	36228 (8D84 h)	79 (4F h)	System information	A device-specific system event has occurred.
6223 (184F h)	36025 (8CB9 h)	36229 (8D85 h)	80 (50 h)	EtherCAT connection with master control	The EtherCAT connection to the controller has been interrupted.
6224 (1850 h)	36026 (8CBA h)	36230 (8D86 h)	81 (51 h)	EtherCAT connection without master control	The EtherCAT connection to the controller has been interrupted.
6225 (1851 h)	36027 (8CBB h)	36231 (8D87 h)	82 (52 h)	PROFINET connection with master control	The PROFINET connection to the controller has been interrupted.
6226 (1852 h)	36028 (8CBC h)	36232 (8D88 h)	83 (53 h)	PROFINET connection without master control	The PROFINET connection to the controller has been interrupted.

Table 2.1: Event list