Item	Alarm name	Possible reason	Solution
		The power supply was turned OFF while changing the parameter setting.	Set Fn001 to initialize the parameter and input parameter again.
A.01	Parameter breakdown	The number of times that parameters were written exceeded the limit.For example, the parameter was	Replace the servo drive.
		The circuits of the servo drive are faulty.	Replace the servo drive.
		A malfunction occurred in reading section of the analoga reference input.	Clear and reset the alarm and restart the operation.
A.02	A/D breakdown	A servo drive board fault occurred	Replace the servo drive.
		The position or speed reference input is too large.	Reduce the reference value.
A 03	Overspeed	The setting of the reference input gain is incorrect.	Correct the reference input gain setting.
/		The order of phase U,V and W in the servo motor wiring is incorrect.	Correct the servo motor wiring.
		A serve drive board fault occurred.	Replace the servo drive.
		The actual torque exceeds the rated torque or the starting torque largely exceeds the rated torque	Reconsider the load and operation conditions or reconsider the servo motor capacity
A.04	Overloaded	The encoder wiring is incorrect or the connection is faulty	Correct the encoder wiring
		The servo motor over temperature and lead to demagnetization.	Cooling the servo motor ,or replace the servo motor.
		A servo drive board fault occurred.	Replace the servo drive.
A.05	Deviation counter error	A servo drive fault occurred.	Replace the servo drive.
		The servo drive gain adjustment is improper.	Increase the speed loop gain(Pn102) and the position loop gain(Pn104).
		The position reference pulse frequency is too high.	Smooth the pulse input and reduce the electronic gear ratio.
A.06	Position error pulse overflow	The serve meter specifications do not most the load conditions such as a torque and moment of inertia	Peresider and correct the load and converse meter canacity
		Wiring of the serve meter LLV and W are incorrect	
		A servo drive board fault occurred.	Replace the servo drive.
		The electronic gear ratio outside the setting range.	Reduce the fraction (both numerator and denominator) until you obtain integers within the range(0.01
A.07	Electronic gear overlimited	The input frequency is incorrect.	$\leq$ Electronic gear ratio (B/A) $\leq$ 100). Check the input technical specification of reference pulse.
A.08	Current feedback (channel A) error	A servo drive board fault occurred.	Set Fn005 to automatic adjustment of the offset of current.
A.09	Current feedback (channel B) error	A servo drive board fault occurred.	Set Fn005 to automatic adjustment of the offset of current .
A.10	Encoder feedback error	An encoder fault occurred.	Replace the servo motor.
		A servo drive fault occurred.	Replace the servo drive.
A.11	IPM Junction Temperature	The junction temperature of the Intelligent Power Module is greater	Reduce the load.
	Error	than the setting value of Pn534.	
		The encoder wiring is incorrect or the connection is faulty.	Correct the encoder wiring. Renair or replace the serve motor power cable
		A short circuit occurred between the grounding and UV or W of the servo motor calbe.	Repair or replace the servo motor power cable.
A 4-		The dynamic brake was actived too frequently.	Replace the servo drive, and reduce the DB operation frequency.
A.12	Overcurrent	The ambient temperature exceed 55°c.	Relocate the servo drive, and keep it away from other devices.
		The overload or regenerative power exceeds the regenerative resistor capacity.	Reconsider the load and operation conditions.
		C Phase angle of encoder was deflected.	Refer to the guidence, adjust the operation of the encoder installation.
		The wrong alarm signal. The AC power voltage is too high.	Modify the value of the parameter Pn521 as 1. Correct the input voltage.
		The motor speed is high and load movement of inertia isexcessive, resulting in insufficient regenerative	Check the load movement of inertia and minus load specifications, Recosider the load and operation
A.13	overvoltage	capcity.	conditions. Replace the serve drive
		The wrong alarm signal.	Modify the value of the parameter Pn521.2 as 1.
		The AC power supply voltage was lowered, and large voltage drop occurred.	Correct the input voltage.
		The surge current limit resistor is disconnected, resulting in an abnormal power supply voltage or in an	Replace the servo drive. Replace the servo drive.Check the power supply voltage.and reduce the number of times that the
A.14	Undervoltage	overload of the surge current limit resistor.	main circuit is turned ON or OFF.
		The jumper of servo drive between P1 and P2 is removed. A servo drive board fault occurred	Correct the wiring. Replace the servo drive.
		The wrong alarm signal.	Modify the value of the parameter Pn521.1 as 1.
	Regenerative resistor breakdown	Check for incorrect wiring or a disconnected wire in the regenerative resistor.	Correct the wiring for the external regenerative resistor.
A.15		A servo drive fault occurred, such as regenerative trasistor or internal regenerative resistor was	Peoplese the serve drive
		breakdown.	Medify the value of the peremeter Dp521.0 or 1
		The generating state continued.	Select a proper regenerative resistance capcity, or reconsider the load and operation conditions.
		The regenerative energy is excessive.	Select a proper regenerative resistance capcity,or reconsider the load and operation conditions.
A.16	Regeneration error detected	The power supply is overvoltage.	Correct the input voltage. Modify the value of the parameter Pp523.3 as 1
		A servo drive board fault occurred	Replace the servo drive.
		Resolver feedback fault occurred	Replace the servo motor.
A.17	Resolver error	A serve drive board fault occurred After power on the drive fault occurred	Replace the servo drive. Connect and grounding the Pin50(1CN) to earth.
A.18	IGBT overheating	Disable the error protection	Modify the value of the parameter Pn523.0 as 1.
A.19	Motor overheating	Disable the error protection	Modify the value of the parameter Pn523.1 as 1.
		The three-phase power supply wining is incorrect. The three-phase power supply is unbalanced.	Balance the power supply by changing phases.
A.20	Open phase in Power Lines	A servo drive fault occurred.	Check the power supply voltage or replace the servo drive.
		The parameter setting for wiring is incorrect.	Correct the parameter Pn521.3 to 1 (default value).
A.21	Voltage fluctuation detected	One cycle of the input voltage's waveform was lost.	Correct the input voltage. It is recommended to use a voltage stabilizer.
		A servo drive fault occurred.	Check the power supply voltage or replace the servo drive.
A.22	Motor temperature sensor failure	The temperature sensor's feedback signals was lost.	Replace the servo motor
		Disable the error protection.	Modify the value of the parameter Pn523.1 to 1.
Δ 23	Brake overcurrent alarm	The regenerative resistor's resistance is too low.	Replace the another external resistor by higher resistance.
7.20		The regenerative circuit has failed	Replace the servo drive.
	Main Circuit		Check if the power
A.24	Main Circuit Power Supply	The main circuit power supply wiring	main circuit is
	Wiring Error	is incorrect.	consistent with the
A.25		The servo motor wiring is incorrect or the connection is faulty.	Correct the parameters of Pn840 and Pn005
A.26	U&V&W winding phase overcurrent	The servo motor overheated and demagnetized.	Correct the servo motor wiring or replace the servo drive.
A.27	Encoder overheating	Reserved Overheating problem encountered in the encoder assembly	Set Pn522.3 to 1, disabling the protection capability. Reavaluate cooling to the serve motor
1.20	STO	The STO module may not be	Check if the terminal
A.30	Disconnected	connected or disconnected.	wiring of STO is correct
	STO Circuit		Contact ALTRA
A.31	Failure	A failure occurred in the STO circuit	BRASIL or the Authorized Distributor
			Contact ALTRA
A.33	Supply Error	The power supply of USB is anormal.	BRASIL or the Authorized Distributor
A 34	Control Board	The key chip component is overheated	Improve the ambient
A.34	overheated	within a long time.	temperature condition.
A 25	Temperature	The temperature sensor on the control	Contact ALTRA
7.35	Sensor Disconnected	board was disconnected.	Authorized Distributor.
	Key Chip		
A.36	Component Rower Supply	The monitor signal of key chip	BRASIL or the
	Error		Authorized Distributor.

## List of alarm display and troubleshooting for ABD Drive Series

A.37	Panel Operator Communication Error	The Panel Operator had failed communication for 1 second	Repower up the system, or else, contact ALTRA BRASIL or the
A.41	Reserved	Reserved	Authorized Distributor.
A.42	Motor model unmatched	The encoder wiring is incorrect or the connection is faulty. The parameter settings for servo motor are incorrect.	Correct the encoder wiring. Correct the setting of Pn005.3.
A.43	Drive model unmatched	A servo drive fault occurred.	Set Fn001 to initialize the parameter.
A.45	Absolute encoder Multiturn information error	The multiturn information of the encoder is faulty.	Set Fn010 to clear error .
A 16	Encoder multiturn information overflow	An absolute encoder fault occurred. Multiturn information of the encoder was overflown.	If the alarm cannot be reset by setting Fn011, replace the encoder. Set Fn010 to clear error .
A.40		An absolute encoder fault occurred. Multiturn information of the encoder was lost.	If the alarm cannot be reset by setting Fn011, replace the encoder.
A.47	Absolute encoder battery error	The battery voltage is lower than the specified value 2.5V	Replace the battery, and then turn ON the power to the encoder.
A.48	Absolute encoder battery error	The battery voltage is lower than the specified value 3.1V The encoder does not have a battery connected to it.	Replace the battery, and then turn ON the power to the encoder. Set Pn002.2 to 1, changing the absolute encoder into incremental mode.
	Freeder Dete		Check if the encoder battery is available, and
A.49	Abnormal	encoder.	try to reset the data by Fn010 or Fn011, then
			repower up the Drive.
A.4A	Encoder Overheated	The internal temperature of encoder is too high.	and improve the
		The parameter settings for the encoder are incorrect.	Adjust the setting of Pn840.0 .
A.50	Encoder communication timeout occurred	The encoder wiring is incorrect or the connection is faulty. An encoder fault occurred.	Correct the encoder wiring. Replace the servo motor.
		Noise interference occurred on the signal line from encoder.	Take measures against noise around the encoder's wiring.
A.51	Overspeed detected	An encoder fault occurred.	Replace the servo motor.
A.52	Encoder internal error	The absolute state of the encoder is faulty. An encoder fault occurred.	Set Fn011 to clear error. Replace the servo motor.
A.53	Single-turn data error	The calculation result of encoder is faulty.	Set Fn011 to clear error.
A.54	Check-bit and end-bit error	The parity bit and cut-off bit of controlfield are faulty.	Clear and reset the alarm and restart the operation.
A =-		An encoder fault occurred. A servo drive fault occurred.	Replace the servo motor. Replace the servo drive.
A.55	Encoder checksum error	An encoder fault occurred.	Replace the servo motor.
A.56	Encoder data error	An encoder fault occurred.	Replace the servo motor.
A.58	Zone 1 data error	The EEPROM's data is empty.	Clear and reset the alarm and restart the operation.
A.59	Zone 2 data error	Data format of the EEPROM is faulty.	Clear and reset the alarm. Please refer to the encoder's manual for phase angle adjustment.
		An encoder fault occurred. The communication module is incorrect.	Clear and reset the alarm and restart the operation.
A.60	Communication module undetected	The contact between the module and the servo drive is faulty.	Insert securely the connector.
A.61	Handshaking fault occurred	The CPU of the communication module is faulty.	Replace the communication module.
A 60		A servo drive fault occurred. Servo drive could not receive cyclic data from communication module.	Replace the servo drive. Check and fix the connection between servo drive and module.
A.02		A servo drive board fault occurred The communication module could not receive a response pakage from servo drive	Replace the servo drive.
A.63	Module fault occurred	A servo drive board fault occurred	Replace the servo drive.
A.64	Connection dropping detected	The BUS connection is incorrect. A module fault occurred.	Correct the BUS wiring. Replace the communication module.
A.65	Position Value Overflow	The difference between two reference position values is too large in IP mode	Check if the position trajectory planning of the master station is correct.
		or CSP mode.	
A.66	CAN Communication faulty occurred	or CSP mode. Noise interference occurred on the encoder's signal line. A module fault occurred.	Take measures against noise around the encoder's wiring.         Replace the communication module.
A.66 A.67	CAN Communication faulty occurred Receiving heartbeat timeout Synchronization signal monitoring cycle is	or CSP mode.         Noise interference occurred on the encoder's signal line.         A module fault occurred.         The master station sends heartbeat time timeout	Take measures against noise around the encoder's wiring.         Replace the communication module.         Check and fix the connections between servo drive and master station.
A.66 A.67 A.69	CAN Communication faulty occurred Receiving heartbeat timeout Synchronization signal monitoring cycle is longer than setting	or CSP mode.         Noise interference occurred on the encoder's signal line.         A module fault occurred.         The master station sends heartbeat time timeout         The filling and the cycle times of the synchronous signal do not match.         There is an error in DC	Take measures against noise around the encoder's wiring.         Replace the communication module.         Check and fix the connections between servo drive and master station.         Correct the cycle time for synchronization.
A.66 A.67 A.69 A.70	CAN Communication faulty occurred Receiving heartbeat timeout Synchronization signal monitoring cycle is longer than setting Synchronization signal monitoring cycle overtime	or CSP mode.         Noise interference occurred on the encoder's signal line.         A module fault occurred.         The master station sends heartbeat time timeout         The filling and the cycle times of the synchronous signal do not match.         There is an error in DC synchronization operation.	Take measures against noise around the encoder's wiring.         Replace the communication module.         Check and fix the connections between servo drive and master station.         Correct the cycle time for synchronization.         Correct the cycle time for synchronization.
A.66 A.67 A.69 A.70 A.71	CAN Communication faulty occurred Receiving heartbeat timeout Synchronization signal monitoring cycle is longer than setting Synchronization signal monitoring cycle overtime SM Event Sync Error (The event arrived too early	or CSP mode.         Noise interference occurred on the encoder's signal line.         A module fault occurred.         The master station sends heartbeat time timeout         The filling and the cycle times of the synchronous signal do not match.         There is an error in DC synchronization operation.         The synchronization operation of SM Event was too early.	Take measures against noise around the encoder's wiring.         Replace the communication module.         Check and fix the connections between servo drive and master station.         Correct the cycle time for synchronization.         Correct the cycle time for synchronization.         Check the setting of the master station.
A.66 A.67 A.69 A.70 A.71 A.72	CAN Communication faulty occurred Receiving heartbeat timeout Synchronization signal monitoring cycle is longer than setting Synchronization signal monitoring cycle overtime SM Event Sync Error (The event arrived too early SM Event Sync Error (The event overtime) SM Event Sync Error (The event overtime)	or CSP mode.         Noise interference occurred on the encoder's signal line.         A module fault occurred.         The master station sends heartbeat time timeout         The filling and the cycle times of the synchronous signal do not match.         There is an error in DC synchronization operation.         The synchronization operation of SM Event was too early.         The synchronization operation of SM Event was overtime.	Take measures against noise around the encoder's wiring.         Replace the communication module.         Check and fix the connections between servo drive and master station.         Correct the cycle time for synchronization.         Correct the cycle time for synchronization.         Check the setting of the master station.         Check the setting of the master station.
A.66 A.67 A.69 A.70 A.71 A.72 A.73	CAN Communication faulty occurred Receiving heartbeat timeout Synchronization signal monitoring cycle is longer than setting Synchronization signal monitoring cycle overtime SM Event Sync Error (The event arrived too early SM Event Sync Error (The event overtime) EtherCAT Processor Error	or CSP mode.         Noise interference occurred on the encoder's signal line.         A module fault occurred.         The master station sends heartbeat time timeout         The filling and the cycle times of the synchronous signal do not match.         There is an error in DC synchronization operation.         The synchronization operation of SM Event was too early.         The synchronization operation of SM Event was overtime.         An internal error occurred in the EtherCAT processor.	Take measures against noise around the encoder's wiring.Replace the communication module.Check and fix the connections between servo drive and master station.Correct the cycle time for synchronization.Correct the cycle time for synchronization.Correct the setting of the master station.Check the setting of the master station.Check the setting of the master station.Repower up the system, or else, contact ALTRA BRASIL or the Authorized Distributor.
A.66 A.67 A.69 A.70 A.71 A.72 A.73 A.74	CAN Communication faulty occurred Receiving heartbeat timeout Synchronization signal monitoring cycle is longer than setting Synchronization signal monitoring cycle overtime SM Event Sync Error (The event arrived too early SM Event Sync Error (The event overtime) EtherCAT Processor Error Cycle Time Error in Cubic interpolation	or CSP mode.         Noise interference occurred on the encoder's signal line.         A module fault occurred.         The master station sends heartbeat time timeout         The filling and the cycle times of the synchronous signal do not match.         There is an error in DC synchronization operation.         The synchronization operation of SM Event was too early.         The synchronization operation of SM Event was overtime.         An internal error occurred in the EtherCAT processor.         An algorithm cycle error is detected by the Cubic interpolation algorithm, which is equal to the DC exercise the exerc	Take measures against noise around the encoder's wiring.Replace the communication module.Check and fix the connections between servo drive and master station.Correct the cycle time for synchronization.Correct the cycle time for synchronization.Check the setting of the master station.Check the setting of the master station.Check the setting of the master station.Repower up the system, or else, contact ALTRA BRASIL or the Authorized Distributor.Check if the setting of DC synchronization period is proper and it shall not be 0.
A.66 A.67 A.69 A.70 A.71 A.72 A.73 A.74	CAN Communication faulty occurred Receiving heartbeat timeout Synchronization signal monitoring cycle is longer than setting Synchronization signal monitoring cycle overtime SM Event Sync Error (The event arrived too early SM Event Sync Error (The event overtime) EtherCAT Processor Error Cycle Time Error in Cubic interpolation algorithm	or CSP mode.         Noise interference occurred on the encoder's signal line.         A module fault occurred.         The master station sends heartbeat time timeout         The filling and the cycle times of the synchronous signal do not match.         There is an error in DC synchronization operation.         The synchronization operation of SM Event was too early.         The synchronization operation of SM Event was overtime.         An internal error occurred in the EtherCAT processor.         An algorithm cycle error is detected by the Cubic interpolation algorithm, which is equal to the DC synchronization period.         The DC synchronization period or the	Take measures against noise around the encoder's wiring.         Replace the communication module.         Check and fix the connections between servo drive and master station.         Correct the cycle time for synchronization.         Correct the cycle time for synchronization.         Check the setting of the master station.         Repower up the system, or else, contact ALTRA BRASIL or the Authorized Distributor.         Check if the setting of DC synchronization period is proper and it shall not be 0.
A.66 A.67 A.69 A.70 A.71 A.72 A.73 A.74 A.75	CAN Communication faulty occurred Receiving heartbeat timeout Synchronization signal monitoring cycle is longer than setting Synchronization signal monitoring cycle overtime SM Event Sync Error (The event arrived too early SM Event Sync Error (The event overtime) EtherCAT Processor Error Cycle Time Error in Cubic interpolation algorithm DC Sync Cycle Time Error	or CSP mode.         Noise interference occurred on the encoder's signal line.         A module fault occurred.         The master station sends heartbeat time timeout         The filling and the cycle times of the synchronous signal do not match.         There is an error in DC synchronization operation.         The synchronization operation of SM Event was too early.         The synchronization operation of SM Event was overtime.         An internal error occurred in the EtherCAT processor.         An algorithm cycle error is detected by the Cubic interpolation algorithm, which is equal to the DC synchronization period.         The DC synchronization period or the setting value of the 60C2 object is not an integer multiple of 125us, or less than 125us.	Take measures against noise around the encoder's wiring.         Replace the communication module.         Check and fix the connections between servo drive and master station.         Correct the cycle time for synchronization.         Correct the cycle time for synchronization.         Correct the cycle time for synchronization.         Check the setting of the master station.         Check the setting of the setting of the master station.         Check the setting of the setting of the master station.         Check the setting of the setting of the master station.         Repower up the system, or else, contact ALTRA BRASIL or the Authorized Distributor.         Check if the setting of DC synchronization period is proper and it shall not be 0.         Check if the setting of DC synchronization period is proper.         Check if the setting of DC synchronization period is proper.
A.66 A.67 A.69 A.70 A.71 A.72 A.73 A.74 A.75	CAN Communication faulty occurred Receiving heartbeat timeout Synchronization signal monitoring cycle is longer than setting Synchronization signal monitoring cycle overtime SM Event Sync Error (The event arrived too early SM Event Sync Error (The event overtime) EtherCAT Processor Error Cycle Time Error in Cubic interpolation algorithm DC Sync Cycle Time Error Acceleration	Or CSP mode.         Noise interference occurred on the encoder's signal line.         A module fault occurred.         The master station sends heartbeat time timeout         The filling and the cycle times of the synchronous signal do not match.         There is an error in DC synchronization operation.         The synchronization operation of SM Event was too early.         The synchronization operation of SM Event was overtime.         An internal error occurred in the EtherCAT processor.         An algorithm cycle error is detected by the Cubic interpolation algorithm, which is equal to the DC synchronization period.         The DC synchronization period or the setting value of the 60C2 object is not an integer multiple of 125us, or less than 125us.         Acceleration is set to 0 in PP/PV	Take measures against noise around the encoder's wiring.         Replace the communication module.         Check and fix the connections between servo drive and master station.         Correct the cycle time for synchronization.         Correct the cycle time for synchronization.         Check the setting of the master station.         Repower up the system, or else, contact ALTRA BRASIL or the Authorized Distributor.         Check if the setting of DC synchronization period is proper and it shall not be 0.         Check if the setting of DC synchronization period is proper.         Check and correct the setting of 60C2h.         Check and correct the setting of 60C2h.
A.66 A.67 A.69 A.70 A.71 A.72 A.73 A.74 A.75 A.76	CAN Communication faulty occurred Receiving heartbeat timeout Synchronization signal monitoring cycle is longer than setting Synchronization signal monitoring cycle overtime SM Event Sync Error (The event arrived too early SM Event Sync Error (The event overtime) EtherCAT Processor Error Cycle Time Error in Cubic interpolation algorithm DC Sync Cycle Time Error U, V, W Wiring	Or CSP mode.         Noise interference occurred on the encoder's signal line.         A module fault occurred.         The master station sends heartbeat time timeout         The filling and the cycle times of the synchronous signal do not match.         There is an error in DC synchronization operation.         The synchronization operation of SM Event was too early.         The synchronization operation of SM Event was overtime.         An internal error occurred in the EtherCAT processor.         An algorithm cycle error is detected by the Cubic interpolation algorithm, which is equal to the DC synchronization period or the setting value of the 60C2 object is not an integer multiple of 125us, or less than 125us.         Acceleration is set to 0 in PP/PV mode.	Take measures against noise around the encoder's wiring.         Replace the communication module.         Check and fix the connections between servo drive and master station.         Correct the cycle time for synchronization.         Correct the cycle time for synchronization.         Check the setting of the master station.         Check the setting of the system, or else, contact ALTRA BRASIL or the Authorized Distributor.         Check if the setting of DC synchronization period is proper and it shall not be 0.         Check if the setting of DC synchronization period is proper.         Check and correct the setting of 60C2h.         Change the Object 6086h, 6084h and 6085h to a proper value.         Check the power cable.
A.66 A.67 A.69 A.70 A.71 A.72 A.73 A.74 A.75 A.76 A.81	CAN Communication faulty occurred Receiving heartbeat timeout Synchronization signal monitoring cycle is longer than setting Synchronization signal monitoring cycle overtime SM Event Sync Error (The event arrived too early SM Event Sync Error (The event overtime) EtherCAT Processor Error Cycle Time Error in Cubic interpolation algorithm DC Sync Cycle Time Error U, V, W Wiring Error	Or CSP mode.         Noise interference occurred on the encoder's signal line.         A module fault occurred.         The master station sends heartbeat time timeout         The filling and the cycle times of the synchronous signal do not match.         There is an error in DC synchronization operation.         The synchronization operation of SM Event was too early.         The synchronization operation of SM Event was overtime.         An internal error occurred in the EtherCAT processor.         An algorithm cycle error is detected by the Cubic interpolation algorithm, which is equal to the DC synchronization period.         The DC synchronization period or the setting value of the 60C2 object is not an integer multiple of 125us, or less than 125us.         Acceleration is set to 0 in PP/PV mode.         The servo motor wiring is incorrect or the connection is faulty.	Take measures against noise around the encoder's wiring.         Replace the communication module.         Check and fix the connections between servo drive and master station.         Correct the cycle time for synchronization.         Correct the cycle time for synchronization.         Check the setting of the master station.         Repower up the system, or else, contact ALTRA BRASIL or the Authorized Distributor.         Check if the setting of DC synchronization period is proper and it shall not be 0.         Check if the setting of DC synchronization period is proper.         Check and correct the setting of 60C2h.         Change the Object 6086h, 6084h and 6085h to a proper value.         Check the power cable.         Correct the parameter of Pn524.0, from '0' to '1'(default) to disable the protection.
A.66 A.67 A.69 A.70 A.71 A.72 A.73 A.74 A.75 A.75 A.76 A.81	CAN Communication faulty occurred Receiving heartbeat timeout Synchronization signal monitoring cycle is longer than setting Synchronization signal monitoring cycle overtime SM Event Sync Error (The event arrived too early SM Event Sync Error (The event overtime) EtherCAT Processor Error Cycle Time Error in Cubic interpolation algorithm DC Sync Cycle Time Error U, V, W Wiring Error Motor Mismatched	or CSP mode. Noise interference occurred on the encoder's signal line. A module fault occurred. The master station sends heartbeat time timeout The filling and the cycle times of the synchronous signal do not match. There is an error in DC synchronization operation. The synchronization operation of SM Event was too early. The synchronization operation of SM Event was overtime. An internal error occurred in the EtherCAT processor. An algorithm cycle error is detected by the Cubic interpolation algorithm, which is equal to the DC synchronization period. The DC synchronization period or the setting value of the 60C2 object is not an integer multiple of 125us, or less than 125us. Acceleration is set to 0 in PP/PV mode. The servo motor wiring is incorrect or the connection is faulty. When Pn895.0 was set to 0 (Use the data in the encoder zone 1), and Pn895.1 was set to 1 (Use the parameter settings), this alarm occurred if the set value of Pn807 is different from data (Motor power) in the encoder zone 1.	Take measures against noise around the encoder's wiring.         Replace the communication module.         Check and fix the connections between servo drive and master station.         Correct the cycle time for synchronization.         Correct the cycle time for synchronization.         Check the setting of the master station.         Check the setting of DC synchronization period is proper and it shall not be 0.         Check if the setting of DC synchronization period is proper.         Check and correct the setting of 60C2h.         Change the Object 6086h, 6084h and 6085h to a proper value.         Check the power cable.         Correct the parameter of Ph524.0, from '0' to '1' (default) to disable the protection.         Replace the Motor.
A.66 A.67 A.69 A.70 A.71 A.72 A.73 A.74 A.75 A.76 A.81 A.82	CAN Communication faulty occurred Receiving heartbeat timeout Synchronization signal monitoring cycle is longer than setting Synchronization signal monitoring cycle overtime SM Event Sync Error (The event arrived too early SM Event Sync Error (The event overtime) EtherCAT Processor Error Cycle Time Error in Cubic interpolation algorithm DC Sync Cycle Time Error U, V, W Wiring Error Motor Mismatched Motor Running	or CSP mode. Noise interference occurred on the encoder's signal line. A module fault occurred. The master station sends heartbeat time timeout The filling and the cycle times of the synchronous signal do not match. There is an error in DC synchronization operation. The synchronization operation of SM Event was too early. The synchronization operation of SM Event was overtime. An internal error occurred in the EtherCAT processor. An algorithm cycle error is detected by the Cubic interpolation algorithm, which is equal to the DC synchronization period. The DC synchronization period or the setting value of the 60C2 object is not an integer multiple of 125us, or less than 125us. Acceleration is set to 0 in PP/PV mode. The servo motor wiring is incorrect or the connection is faulty. When Pn895.0 was set to 0 (Use the data in the encoder zone 1), and Pn895.1 was set to 1 (Use the parameter settings), this alarm occurred if the set value of Pn807 is different from data (Motor power) in the encoder zone 1. The wiring of the Motor was anormal	Take measures against noise around the encoder's wiring.         Replace the communication module.         Check and fix the connections between servo drive and master station.         Correct the cycle time for synchronization.         Check the setting of the master station.         Check the setting of the setting of DC synchronization period is proper and it shall not be 0.         Check if the setting of DC synchronization period is proper.         Check and correct the setting of 60C2h.         Change the Object 6086h, 6084h and 6085h to a proper value.         Check the power cable.         Correct the parameter of Pn524.0,from '0' to '1'(default) to disable the protection.         Replace the Motor.         Check and correct the order of phases U, V, and W in the Motor wiring.
A.66 A.67 A.69 A.70 A.71 A.72 A.73 A.74 A.75 A.75 A.76 A.81 A.81	CAN Communication faulty occurred Receiving heartbeat timeout Synchronization signal monitoring cycle is longer than setting Synchronization signal monitoring cycle overtime SM Event Sync Error (The event arrived too early SM Event Sync Error (The event overtime) EtherCAT Processor Error Cycle Time Error in Cubic interpolation algorithm DC Sync Cycle Time Error U, V, W Wiring Error Wotor Mismatched Motor Running Error	or CSP mode. Noise interference occurred on the encoder's signal line. A module fault occurred. The master station sends heartbeat time timeout The filling and the cycle times of the synchronous signal do not match. There is an error in DC synchronization operation. The synchronization operation of SM Event was to early. The synchronization operation of SM Event was too early. The synchronization operation of SM Event was overtime. An internal error occurred in the EtherCAT processor. An algorithm cycle error is detected by the Cubic interpolation algorithm, which is equal to the DC synchronization period. The DC synchronization period or the setting value of the 60C2 object is not an integer multiple of 125us, or less than 125us. Acceleration is set to 0 in PP/PV mode. The servo motor wiring is incorrect or the connection is faulty. When Pn895.0 was set to 0 (Use the data in the encoder zone 1), and Pn895.1 was set to 1 (Use the parameter settings), this alarm occurred if the set value of Pn807 is different from data (Motor power) in the encoder zone 1. The Wiring of the Motor was anormal. The Motor was driven in reverse for averus eaveruing	Take measures against noise around the encoder's wiring.         Replace the communication module.         Check and fix the connections between servo drive and master station.         Correct the cycle time for synchronization.         Check the setting of the graster station.         Check the setting of DC synchronization period is proper and it shall not be 0.         Check if the setting of DC synchronization period is proper.         Check and correct the setting of 60C2h.         Change the Object 6086h, 6084h and 6085h to a proper value.         Check the power cable.         Correct the parameter of Pn524.0,from '0' to '1'(default) to disable the protection.         Replace the Motor.         Check and correct the order of phases U, V, and W in the Motor wiring.         Check and determine the Motor is not driven in the reverse direction.
A.66 A.67 A.69 A.70 A.71 A.72 A.73 A.74 A.75 A.76 A.76 A.81 A.81 A.82 A.82	CAN Communication faulty occurred Receiving heartbeat timeout Synchronization signal monitoring cycle is longer than setting Synchronization signal monitoring cycle overtime SM Event Sync Error (The event arrived too early SM Event Sync Error (The event overtime) EtherCAT Processor Error Cycle Time Error in Cubic interpolation algorithm DC Sync Cycle Time Error U, V, W Wiring Error U, V, W Wiring Error Motor Mismatched Motor Running Error Phase A Disconnected	or CSP mode. Noise interference occurred on the encoder's signal line. A module fault occurred. The master station sends heartbeat time timeout The filling and the cycle times of the synchronous signal do not match. There is an error in DC synchronization operation. The synchronization operation of SM Event was too early. The synchronization operation of SM Event was too early. An internal error occurred in the EtherCAT processor. An algorithm cycle error is detected by the Cubic interpolation algorithm, which is equal to the DC synchronization period. The DC synchronization period or the setting value of the 60C2 object is not an integer multiple of 125us, or less than 125us. Acceleration is set to 0 in PP/PV mode. The servo motor wiring is incorrect or the connection is faulty. When Pn895.0 was set to 0 (Use the data in the encoder zone 1), and Pn895.1 was set to 1 (Use the parameter settings), this alarm occurred if the set value of Pn807 is different from data (Motor was anormal. The Motor was driven in reverse for power generation.	Take measures against noise around the encoder's wiring.         Replace the communication module.         Check and fix the connections between servo drive and master station.         Correct the cycle time for synchronization.         Correct the cycle time for synchronization.         Check the setting of the master station.         Repower up the system, or else, contact ALTRA BRASIL or the Authorized Distributor.         Check if the setting of DC synchronization period is proper and it shall not be 0.         Check if the setting of DC synchronization period is proper.         Check and correct the setting of 60C2h.         Change the Object 6086h, 6084h and 6085h to a proper value.         Check the power cable.         Correct the parameter of Ph524.0,from '0' to '1'(default) to disable the protection.         Replace the Motor.         Check and correct the order of phases U, V, and W in the Motor wiring.         Check and determine the Motor is not driven in the reverse direction.         Check the setting of Ph210.
A.66 A.67 A.69 A.70 A.71 A.72 A.73 A.74 A.75 A.76 A.76 A.81 A.81 A.82 A.83 A.90	CAN Communication faulty occurred Receiving heartbeat timeout Synchronization signal monitoring cycle is longer than setting Synchronization signal monitoring cycle overtime SM Event Sync Error (The event arrived too early SM Event Sync Error (The event overtime) EtherCAT Processor Error Cycle Time Error in Cubic interpolation algorithm DC Sync Cycle Time Error U, V, W Wiring Error U, V, W Wiring Error Motor Mismatched Motor Running Error Phase A Disconnected	or CSP mode. Noise interference occurred on the encoder's signal line. A module fault occurred. The master station sends heartbeat time timeout The filling and the cycle times of the synchronous signal do not match. There is an error in DC synchronization operation. The synchronization operation of SM Event was too early. The synchronization operation of SM Event was overtime. An internal error occurred in the EtherCAT processor. An algorithm cycle error is detected by the Cubic interpolation algorithm, which is equal to the DC synchronization period or the setting value of the 60C2 object is not an integer multiple of 125us, or less than 125us. Acceleration is set to 0 in PP/PV mode. The serve motor wiring is incorrect or the connection is faulty. When Pn895.0 was set to 0 (Use the data in the encoder zone 1, and Pn895.1 was set to 1 (Use the parameter setting), this alarm occurred if the set value of Pn807 is different from data (Motor power) in the encoder zone 1. The wiring of the Motor was anormal. Phase A of the external encoder is disconnected.	Take measures against noise around the encoder's wiring.         Replace the communication module.         Check and fix the connections between servo drive and master station.         Correct the cycle time for synchronization.         Correct the cycle time for synchronization.         Check the setting of the master station.         Repower up the system, or else, contact ALTRA BRASIL or the Authorized Distributor.         Check if the setting of DC synchronization period is proper and it shall not be 0.         Check if the setting of DC synchronization period is proper.         Check and correct the setting of 60C2h.         Change the Object 6086h, 6084h and 6085h to a proper value.         Check the power cable.         Correct the parameter of Ph524.0,from '0' to '1'(default) to disable the protection.         Replace the Motor.         Check and correct the order of phases U, V, and W in the Motor wiring.         Check the setting of Ph210.         Check the setting of Ph210.         Check the setting of the determine the coder.         Check the setting of the external encoder.         Check the setting of the sternal encoder.
A.66 A.67 A.69 A.70 A.71 A.72 A.73 A.74 A.74 A.75 A.76 A.81 A.81 A.82 A.82 A.82 A.83 A.90	CAN Communication faulty occurred Receiving heartbeat timeout Synchronization signal monitoring cycle is longer than setting Synchronization signal monitoring cycle overtime SM Event Sync Error (The event arrived too early SM Event Sync Error (The event overtime) EtherCAT Processor Error Cycle Time Error in Cubic interpolation algorithm DC Sync Cycle Time Error U, V, W Wiring Error Motor Mismatched Motor Running Error Phase A Disconnected Phase B Disconnected	Or CSP mode.         Noise interference occurred on the encoder's signal line.         A module fault occurred.         The master station sends hearbeat time timeout         The filling and the cycle times of the synchronous signal do not match.         There is an error in DC         synchronization operation.         The synchronization operation of SM         Event was too early.         The synchronization operation of SM         Event was covertime.         An internal error occurred in the         EtherCAT processor.         An algorithm cycle error is detected by the         the Cubic interpolation algorithm.         which is equal to the DC         synchronization period or the         setting value of the 60C2 object is not         an integer multiple of 125us, or less         than 125us.         Acceleration is set to 0 in PP/PV         mode.         The servo motor wiring is incorrect or the connection is faulty.         When Pn895.0 was set to 0 (Use the         data in the encoder zone 1), and         Pn895.1 was set to 1 (Use the         parameter settings), this alarm         occurred if the set value of Pn807 is         different from data (Motor power) in         the encoder zone 1.         The wir	Take measures against noise around the encoder's wiring.         Replace the communication module.         Check and fix the connections between servo drive and master station.         Correct the cycle time for synchronization.         Correct the cycle time for synchronization.         Check he setting of the master station.         Check the setting of the master station.         Check the setting of the master station.         Repower up the system, or else, contact ALTRA BRASIL or the Authorized Distributor.         Check if the setting of DC synchronization period is proper and it shall not be 0.         Check if the setting of DC synchronization period is proper.         Check the power cable.         Correct the parameter of Pn524.0, from '0' to '1'(default) to disable the protection.         Check and correct the order of phases U, V, and W in the Motor wiring.         Check the setting of Pn210.         Check the setting of Pn210.         Check the setting of Pn210.         Check the wiring of the external encoder.         Check the wiring of the external encoder.
A.66 A.67 A.69 A.70 A.71 A.72 A.73 A.74 A.75 A.76 A.76 A.81 A.81 A.82 A.82 A.82 A.83 A.90 A.91	CAN Communication faulty occurred Receiving heartbeat timeout Synchronization signal monitoring cycle is longer than setting Synchronization signal monitoring cycle overtime SM Event Sync Error (The event arrived too early SM Event Sync Error (The event overtime) EtherCAT Processor Error Cycle Time Error in Cubic interpolation algorithm DC Sync Cycle Time Error U, V, W Wiring Error U, V, W Wiring Error Motor Mismatched Motor Running Error Phase A Disconnected Phase C Disconnected Phase C Disconnected	or CSP mode. Noise interference occurred on the encoder's signal line. A module fault occurred. The master station sends hearbeat time timeout The filling and the cycle times of the synchronous signal do not match. There is an error in DC synchronization operation of SM Event was too early. The synchronization operation of SM Event was too early. The synchronization operation of SM Event was ower time. An internal error occurred in the EtherCAT processor. An algorithm cycle error is detected by the Cubic interpolation algorithm. which is equal to the DC synchronization period. The DC synchronization period or the setting value of the 60C2 object is not an integer multiple of 125us, or less than 125us. Acceleration is set to 0 in PP/PV mode. The servo motor wiring is incorrect or the connection is faulty. When Pn895.0 was set to 0 (Use the data in the encoder zone 1), and Pn895.1 was set to 1 (Use the parameter settings), this alarm occurred if the settings) is alarm accurred if the settings, this alarm accurred if the settings in correct for parameter settings). The wiring of the Motor was anormal. The wiring of the kotor was anormal. Phase A of the external encoder is disconnected. Phase C of the external encoder is disconnected.	Take measures against noise around the encoder's wiring.         Replace the communication module.         Check and fix the connections between servo drive and master station.         Correct the cycle time for synchronization.         Check the setting of the master station.         Repower up the system, or else, contact ALTRA BRASIL or the Authorized Distributor.         Check if the setting of DC synchronization period is proper and it shall not be 0.         Check if the setting of DC synchronization period is proper.         Check and correct the setting of 60C2h.         Change the Object 6086h, 6084h and 6085h to a proper value.         Check the power cable.         Correct the parameter of Ph524.0,from '0' to '1'(default) to disable the protection.         Replace the Motor.         Check and correct the order of phases U, V, and W in the Motor wiring.         Check and correct the order of phases U, V, and W in the Motor wiring.         Check the setting of Ph210.         Check the setting of Ph210.         Check the setting of Ph210.         Check the setting of Ph210 and Ph211.         Check the wiring of the external encoder.         Check the wiring of Ph210 an
A.66 A.67 A.69 A.70 A.71 A.72 A.73 A.74 A.74 A.75 A.76 A.76 A.81 A.81 A.82 A.82 A.83 A.90 A.91 A.92 A.93	CAN Communication faulty occurred Receiving heartbeat timeout Synchronization signal monitoring cycle is longer than setting Synchronization signal monitoring cycle overtime SM Event Sync Error (The event arrived too early SM Event Sync Error (The event overtime) EtherCAT Processor Error Cycle Time Error in Cubic interpolation algorithm DC Sync Cycle Time Error U, V, W Wiring Error U, V, W Wiring Error Motor Mismatched Motor Running Error Phase A Disconnected Phase C Disconnected Encoder Communications Error	or CSP mode. Noise interference occurred on the encoder's signal line. A module fault occurred. The master station sends hearbeat time timeout The filling and the cycle times of the synchronous signal do not match. There is an error in DC synchronization operation of SM Event was too early. The synchronization operation of SM Event was too early. The synchronization operation of SM Event was overtime. An internal error occurred in the EtherCAT processor. An algorithm cycle error is detected by the Cubic interpolation algorithm. which is equal to the DC synchronization period. The DC synchronization period or the setting value of the 60C2 object is not an integer multiple of 125us, or less than 125us. Acceleration is set to 0 in PP/PV mode. The servo motor wiring is incorrect or the connection is faulty. When Pn895.0 was set to 0 (Use the data in the encoder zone 1), and Pn895.1 was set to 1 (Use the parameter settings), this alarm occurred if the settings) this alarm occurred if the settings incorrect or the connection. The Wring of the Motor was anormal. The Wring of the Motor was anormal. Phase A of the external encoder is disconnected. Phase B of the external encoder is disconnected. Communications between the external encoder and the Drive is unavailable.	Take measures against noise around the encoder's wiring.         Replace the communication module.         Check and fix the connections between servo drive and master station.         Correct the cycle time for synchronization.         Check the setting of the master station.         Repower up the system, or else, contact ALTRA BRASIL or the Authorized Distributor.         Check if the setting of DC synchronization period is proper and it shall not be 0.         Check and correct the setting of 60C2h.         Change the Object 6086h, 6084h and 6085h to a proper value.         Check the parameter of Ph524.0,from '0' to '1'(default) to disable the protection.         Replace the Motor.         Check and correct the order of phases U, V, and W in the Motor wiring.         Check the setting of Ph210.         Check the setting of Ph210.         Check the wiring of the external encoder.         Check the wiring of Ph210 and Ph211.         Check the wiring of the external encoder.         Check the wiring of Ph210 and Ph211.         Check the wiring of the external encoder.         Check the wiring of the external encoder.         Check the wiring of the external encoder.
A.66 A.67 A.69 A.70 A.71 A.72 A.72 A.73 A.74 A.75 A.76 A.76 A.81 A.81 A.82 A.82 A.82 A.82 A.83 A.90 A.91 A.91 A.92 A.93	CAN Communication faulty occurred Receiving heartbeat timeout Synchronization signal monitoring cycle is longer than setting Synchronization signal monitoring cycle overtime SM Event Sync Error (The event arrived too early SM Event Sync Error (The event overtime) EtherCAT Processor Error Cycle Time Error in Cubic interpolation algorithm DC Sync Cycle Time Error U, V, W Wiring Error Motor Mismatched Motor Running Error Phase A Disconnected Phase B Disconnected Phase C Disconnected Encoder Communications Error Position Deviation Overflow	or CSP mode. Noise interference occurred on the encoder's signal line. A module fault occurred. The master station sends hearbeat time timeout The filling and the cycle times of the synchronous signal do not match. There is an error in DC synchronization operation of SM Event was too early. The synchronization operation of SM Event was too early. The synchronization operation of SM Event was too early. An internal error occurred in the EtherCAT processor. An algorithm cycle error is detected by the Cubic interpolation algorithm, which is equal to the DC synchronization period or the setting value of the 60C2 object is not an integer multiple of 1250s, or less than 125us. Acceleration is set to 0 (Use the data in the encoder zone 1), and Pha95.1 was set to 1 (Use the parameter settings), this alarm occurred if the set value of PAD7 is different from data (Motor power) in the encoder zone 1. The wring of the Motor was anormal. Phase B of the external encoder is disconnected. Communications between the external encoder and the Drive is unavailable. The setting of PA1212 (Excessive Position Deviation Algorithm, while the encoder is disconnected.	Take measures against noise around the encoder's wiring. Replace the communication module. Check and fix the connections between servo drive and master station. Correct the cycle time for synchronization. Correct the cycle time for synchronization. Check the setting of the master station. Check the setting of the master station. Check the setting of DE synchronization period is proper and it shall not be 0. Check if the setting of DC synchronization period is proper and it shall not be 0. Check if the setting of DC synchronization period is proper. Check if the setting of DC synchronization period is proper. Check and correct the setting of 60C2h. Change the Object 6086h, 6084h and 6085h to a proper value. Check the power cable. Correct the parameter of Ph524.0,from '0' to '1'(default) to disable the protection. Replace the Motor. Check and correct the order of phases U, V, and W in the Motor wiring. Check the setting of Ph210. Check the
A.66 A.67 A.69 A.70 A.71 A.72 A.73 A.74 A.74 A.75 A.76 A.76 A.81 A.82 A.83 A.82 A.83 A.90 A.91 A.91 A.92 A.93	CAN Communication faulty occurred Receiving heartbeat timeout Synchronization signal monitoring cycle is longer than setting Synchronization signal monitoring cycle overtime SM Event Sync Error (The event arrived too early SM Event Sync Error (The event overtime) EtherCAT Processor Error Cycle Time Error in Cubic interpolation algorithm DC Sync Cycle Time Error U, V, W Wiring Error Motor Mismatched Motor Running Error Phase A Disconnected Phase B Disconnected Phase C Disconnected Encoder Communications Error Position Deviation Overflow Undervoltage	Or USP mode.       Noise interference occurred on the encoder's signal line.         A module fault occurred.       The master station sends hearbeat time timeout         The filling and the cycle times of the synchronous signal do not match.         There is an error in DC         synchronization operation of SM         Event was too early.         The synchronization operation of SM         Event was too early.         An internal error occurred in the         EtherCAT processor.         An algorithm cycle error is detected by         the cycle interpolation algorithm,         which is equal to the DC         synchronization period or the         setting value of the 60C2 object is not         an integer multiple of 125us, or less         than 125us.         Acceleration is set to 0 in PP/PV         mode.         The servo motor wiring is incorrect or the connection is faulty.         When Pn895.0 was set to 1 (Use the         data in the encoder zone 1), and         Pre35.1 was set to 1 (Use the         parameter settings), itsi alarm         occurred if the set value of PA02 is         different from data (Motor power) in         the encoder zone 1.         The wiring of the Motor was         anormal.         These B of	Take measures against noise around the encoder's wiring.         Replace the communication module.         Check and fix the connections between serve drive and master station.         Correct the cycle time for synchronization.         Correct the cycle time for synchronization.         Check the setting of the master station.         Check the setting of the master station.         Check the setting of the master station.         Check the setting of DE synchronization period is proper and it shall not be 0.         Check if the setting of DC synchronization period is proper.         Check if the setting of DC synchronization period is proper.         Check and correct the setting of 60C2h.         Change the Object 6086h, 6084h and 6085h to a proper value.         Check the power cable.         Correct the parameter of Ph524.0,from '0' to '1'(default) to disable the protection.         Check and correct the order of phases U, V, and W in the Motor wiring.         Check the setting of Ph210.         Check the wiring of the external encoder.
A.66 A.67 A.69 A.70 A.71 A.72 A.73 A.74 A.74 A.75 A.76 A.76 A.81 A.82 A.82 A.82 A.83 A.90 A.91 A.91 A.91 A.93 A.94	CAN Communication faulty occurred Receiving heartbeat timeout Synchronization signal monitoring cycle is longer than setting Synchronization signal monitoring cycle overtime SM Event Sync Error (The event arrived too early SM Event Sync Error (The event overtime) EtherCAT Processor Error Cycle Time Error in Cubic interpolation algorithm DC Sync Cycle Time Error U, V, W Wiring Error Wotor Mismatched Motor Running Error Phase A Disconnected Phase B Disconnected Phase C Disconnected Encoder Communications Error Position Deviation Overflow Undervoltage Warning	Or CSP mode.         Noise interference occurred on the encoder's signal line.         A module fault occurred.         The master station sends hearbeat time timeout         The filling and the cycle times of the synchronous signal do not match.         There is an error in DC         synchronization operation of SM         Event was too early.         The synchronization operation of SM         Event was vortime.         An Internal error occurred in the         EtherCAT processor.         An algorithm cycle error is detected by         the cycle time of the doct of the synchronization period or the         setting value of the 60C2 object is not         an integer multiple of 125us, or less         than it the encoder zone 1, and         Predict.         Very her 805.0 was set to 0 (Use the         data in the encoder zone 1, and         Predict.         Predict.         The wring of the Motor was anomal.         Predict.         The wring of the Motor was anomal.         Phase A of the external encoder is disconnected.         Phase B of the external encoder is disconnected.         Phase B of the external encoder is disconnected.         Phase A of the external encoder is disconnected.         Phase B of the external encoder is disconne	Take measures against noise around the encoder's wiring.         Replace the communication module.         Check and fix the connections between serve drive and master station.         Correct the cycle time for synchronization.         Correct the cycle time for synchronization.         Check the setting of the master station.         Check the setting of the master station.         Check the setting of the master station.         Check the setting of DC synchronization period is proper and it shall not be 0.         Check if the setting of DC synchronization period is proper and it shall not be 0.         Check if the setting of DC synchronization period is proper.         Check and correct the setting of 60C2h.         Check the power cable.         Correct the parameter of Ph524.0,from '0' to '1'(default) to disable the protection.         Replace the Motor.         Check and determine the Motor is not driven in the reverse direction.         Check the setting of Ph210.         Check the setting of Ph210 and Ph211.         Check the wiring of the external encoder.
A.66 A.67 A.69 A.70 A.71 A.72 A.73 A.74 A.74 A.75 A.76 A.76 A.76 A.81 A.81 A.82 A.83 A.90 A.91 A.91 A.91 A.92 A.93 A.94	CAN Communication faulty occurred Receiving heartbeat timeout Synchronization signal monitoring cycle is longer than setting Synchronization signal monitoring cycle overtime SM Event Sync Error (The event arrived too early SM Event Sync Error (The event overtime) EtherCAT Processor Error Cycle Time Error in Cubic interpolation algorithm DC Sync Cycle Time Error U, V, W Wiring Error Motor Mismatched Motor Running Error Phase A Disconnected Phase B Disconnected Phase C Disconnected Phase C Disconnected Encoder Communications Error Position Deviation Overflow Undervoltage Warning	ar CSP mode. Noise interference occurred on the encoder's signal line. A module fault occurred. The master station sends hearbeat time timeout The filing and the cycle times of the synchronous signal do not match. The filing and the cycle times of the synchronous signal do not match. The synchronization operation of SM Event was too early. The synchronization operation of SM Event was covertime. An internal error occurred in the EtherCAT processor. An algorithm cycle error is detected by the Cubic interpolation algorithm, which is equal to the DC synchronization period. The DC synchronization period or the setting value of the 60C2 object is not an integer multiple of 125us, or less than 125us. Acceleration is set to 0 in PP/PV mode. The servo motor wiring is incorrect or the connection is faulty. When Pn895.0 was set to 0 (Use the data in the encoder zone 1), and Ph895,1 was set to 10 use the parameter settings), this alarm occurred if the set value of Pn807 is different from data (Motor power) in the encoder zone 1. The wiring of the Motor was anormal. The wiring of the Motor was anormal. Phase B of the external encoder is disconnected. Phase C of the external encoder is disconnected. The setting of Pn212 (Excessive Prostion Deviation Alarm Level) was exceeded by the position deviation while the servo was ON. The fain circuit DC voltage is too low.	Take measures against noise around the encoder's wiring.         Replace the communication module.         Check and fix the connections between servo drive and master station.         Correct the cycle time for synchronization.         Check the setting of the master station.         Check the setting of DC synchronization period is proper and it shall not be 0.         Check if the setting of DC synchronization period is proper.         Check and correct the setting of 60C2h.         Check and correct the setting of 60C2h.         Check and correct the setting of 60C2h.         Check the power cable.         Correct the parameter of Ph524.0, from '0' to '1' (default) to disable the protection.         Replace the Mator.         Check and correct the order of phases U, V, and W in the Motor wiring.         Check and determine the Motor is not driven in the reverse direction.         Check the setting of Ph210.         Check the wiring of the external encoder.         Check the settings of Ph210, Ph212, Ph213 and Ph214.

A.F0	Internal Program Error	An error occurred in the internal program (Assertion failure).	Contact ALTRA BRASIL or the Authorized Distributor.
A.00	There are no errors	Normal status of operation.	

\* If the A.45, A.46, A.47 or A.51 alarms have occurred, please refer to the assistance functions (Fn010, Fn011).