

Firmware Release Notes

FIR-v2039-B835703

PD4-Ex-EB-65-x controllers are now supported (PD4-E with integrated brake)

FIR-v2039-B829210

internal changes only for CPBx-x-1 and CPBx-x-2

FIR-v2039-B807052

General:

- Reworked reaction to limit-switches
- Enable config of ballast resistor usage
- Added an option to disable the status or error LED
- Added a pre control for better current control
- Enhance PWM limit from 88.5% to 94.25% - more speed
- Updated PDO mapping for Assembly 100 and 101
- Adjustment of ESI file for use with OMRON PLC
- Support for CPB3/6/15
- Support of Interlock

Od:

- Unit of 320Eh:Fh and 320Fh:5 changed from per-mille to Volt
- Unit of 320Eh:Fh and 320Fh:5 shall change from per-mille to Volt
- Over Current Error can be cleared with 6040=128
- Add an option to configure a threshold velocity where the status bit 12 in ox6041 is set
- added possibility to read out the bootloader version with 4042h:1

Autosetup:

- Change Visibility of Autosetup Parameters to Public
- Autosetup uses nominal current

EtherCAT:

- Enable setting of behaviour in case of a change to safe-OP
- Enable Firmware & Bootloader update via EtherCAT FoE

EtherNet/IP:

- DHCP host names will be applied

FIR-v1939-B697429

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| General: | <ul style="list-style-type: none">- Enhanced brake control- Increased the CPU capacity for NanoJ programs by decreasing the current control loop frequency to 16 kHz- Improvement of commutation at high speed- Adaption of brake ramp and limit switch |
| Modbus RTU: | <ul style="list-style-type: none">- The slave address for ModbusRTU over USB does not matter |
| N5: | <ul style="list-style-type: none">- Improved stability of storing OD values for some models of the N5 |
| PD4-E multiturn: | <ul style="list-style-type: none">- Improvement of position detection after restart |

FIR-v1926-B669333

internal changes only

FIR-v1926-B648637

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| General: | <ul style="list-style-type: none">- Analogue value scaling now possible |
| Od: | <ul style="list-style-type: none">- 0x33B0: Configuration of SSI encoder now possible- 0x605A: Brake stays open after quick stop active- 0x60C2: Interpolation time now settable |
| Autosetup | <ul style="list-style-type: none">- No change of 0x320E and 0x3210 after autosetup |
| PD: | <ul style="list-style-type: none">- Stay in closed loop after restore default parameters |
| NP5: | <ul style="list-style-type: none">- New object: 0x3231:3 (alternate function) |

FIR-v1913-B628025

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| General: | <ul style="list-style-type: none">- Resetting Halt Bit in Relative Position Movement- sensorless commutation with a SSI sensor used- A voltage error is raised before the ballast resistor is activated- Slow speed mode implemented- Support of multiple sensors |
| Od: | <ul style="list-style-type: none">- Closing the brake by default, if a brake can be connected- CL4Ex: Adding 2701h customer storage area- Error reset for 6320h possible- Adding new objects 320Dh, 320Eh, 320Fh for nomalized PI parameters |
| Autosetup: | <ul style="list-style-type: none">- Possibility for a reduced autosetup for range limited linear actuators |
| EtherNet/IP: | <ul style="list-style-type: none">- Update of the .stc files- Addition of PDI assembly |
| PD4-C: | <ul style="list-style-type: none">- Reduced current limit |

FIR-v1825-B577172

internal changes only

FIR-v1813-B557134

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| General: | - Wrong default threshold for ballast circuit |
| | - Velocity and acceleration feed forward did not work in IP mode and were wrongly scaled in CSP and clock-direction mode |
| | - Correction of the automatic brake control with step direction |
| Autosetup: | - Correction of the alignment values |
| Limit Switches: | - Removed the tolerance band for limit switches |
| Od: | - Removed 2059h for devices without encoder configuration capability |
| | - 2038h is public for all controllers |
| | - Correction of the default values of 1011h |
| | - Correction of the default value of 605Ah to 2 |
| PDI: | - Enable it by default and support it by Modbus RTU PDOs |
| | - Adapt the status bits and shift some command figures |
| Quick Stop: | - Support of quick stop option codes 5 & 6 in 605Ah |
| | to stay in quick-stop active state |

FIR-v1748-B538662