

CURTIS AC Motor Controller Parameter List

Model: 1232E-2321 / 1232E-2121

For Noblelift PT20 Pallet Truck, Work With EPS Controller 1220-2201

| Parameter | Value | Min | Max | Unit | Access Level | |
|--|-------|------|-------|---------|--------------|--------|
| | | | | | Read | Write |
| Mode Settings | | | | | | |
| Mast Momentary Switch Enable | On | Off | On | | OEM | OEM |
| Mast 300mm Switch Enable | On | Off | On | | OEM | OEM |
| Mast 1M8 Switch Enable | On | Off | On | | OEM | OEM |
| PD control Enable | Off | Off | On | | OEM | OEM |
| Motor type define | 0 | 0 | 32767 | | OEM | OEM |
| High Speed Mode | | | | | | |
| Max Speed | 3280 | 0 | 5000 | rpm | OEM | OEM |
| Drive Current | 100 | 5 | 100 | % | OEM | OEM |
| Accel Rate | 3 | 0.1 | 30 | Seconds | OEM | OEM |
| Decel Rate | 2.5 | 0.1 | 30 | Seconds | OEM | OEM |
| Speed limitation set | 100 | 0 | 100 | % | User | User |
| Mast high after pump contactor closed | 2.5 | 0.1 | 30 | Seconds | Dealer | Dealer |
| Mast High Max Speed | 1800 | 0 | 5000 | rpm | OEM | OEM |
| Turning Switch Max Speed | 1800 | 0 | 5000 | rpm | OEM | OEM |
| Arm close Standon Max Speed | 4200 | 0 | 5000 | rpm | OEM | OEM |
| Arm close Wakier Max Speed | 4200 | 0 | 5000 | rpm | OEM | OEM |
| Arm open Wakier Max Speed | 4200 | 0 | 5000 | rpm | OEM | OEM |
| Arm open Standon Max Speed | 4200 | 0 | 5000 | rpm | OEM | OEM |
| Turtle Max Speed | 1800 | 0 | 5000 | rpm | OEM | OEM |
| Analog fault Max Speed | 300 | 0 | 800 | rpm | OEM | OEM |
| Interlock brake decel rate | | | | | | |
| Mast high Mode | 3 | 0.1 | 30 | Seconds | OEM | OEM |
| Mast low Mode | 0.5 | 0.1 | 30 | Seconds | OEM | OEM |
| BDI Lockout Mode | | | | | | |
| BDI Lockout Enable | On | Off | On | | OEM | OEM |
| BDI Lockout Level | 20 | 0 | 100 | % | User | User |
| Steer Angle Speed Reduction | | | | | | |
| Max Speed | 3280 | 0 | 6000 | rpm | OEM | OEM |
| 1220 Angle Min | 4.5 | 0 | 10 | Volt | OEM | OEM |
| 1220 Angle Deadband Min | 5 | 0 | 10 | Volt | OEM | OEM |
| Reduce speed voltage1 | 6.01 | 0 | 10 | Volt | OEM | OEM |
| Limited Speed 1 | 40 | 0 | 100 | % | OEM | OEM |
| Reduce speed voltage2 | 7 | 0 | 10 | Volt | OEM | OEM |
| Limited Speed 2 | 29 | 0 | 100 | % | OEM | OEM |
| 1220 Angle Max | 9 | 0 | 10 | Volt | OEM | OEM |
| 1220 Angle Deadband Max | 8.51 | 0 | 10 | Volt | OEM | OEM |
| Limited Max Speed | 15 | 0 | 100 | % | OEM | OEM |
| Hour Meter | | | | | | |
| HM Reset Enable | Off | Off | On | | OEM | OEM |
| Hydro Setting | | | | | | |
| Current set | | | | | | |
| Lower PD Max Current | 0.7 | 0.01 | 2 | Ampere | OEM | OEM |
| Lower PD Min Current | 0.35 | 0.01 | 2 | Ampere | OEM | OEM |
| Step1 Lower follow lift PD Max Current | 0.35 | 0.01 | 2 | Ampere | OEM | OEM |

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|--|-------|------|------|---------|--------------|--------|
| | | | | | Read | Write |
| Step1 Lower follow lift PD Min Current | 0.35 | 0.01 | 2 | Ampere | OEM | OEM |
| Step2 Lower follow lift PD Max Current | 0.35 | 0.01 | 2 | Ampere | OEM | OEM |
| Step2 Lower follow lift PD Min Current | 0.35 | 0.01 | 2 | Ampere | OEM | OEM |
| Lift PD Max Current | 0.68 | 0.01 | 2 | Ampere | OEM | OEM |
| Lift PD Min Current | 0.02 | 0.01 | 2 | Ampere | OEM | OEM |
| Pot input | | | | | | |
| Lift Pot Min | 50 | 0 | 4095 | | OEM | OEM |
| Lift Pot Max | 4050 | 0 | 4095 | | OEM | OEM |
| Lower Pot Min | 50 | 0 | 4095 | | OEM | OEM |
| Lower Pot Max | 4050 | 0 | 4095 | | OEM | OEM |
| Delay set | | | | | | |
| Pump to Lift Delay | 0.1 | 0.1 | 30 | Seconds | Dealer | Dealer |
| Delay PD closed after Pump lift | 1.5 | 0.1 | 30 | Seconds | Dealer | Dealer |
| Delay Lower after lift | 0.8 | 0.1 | 30 | Seconds | Dealer | Dealer |
| Control Mode Select | 0 | 0 | 2 | | OEM | OEM |
| 0 - Speed Mode Express | | | | | | |
| Max Speed | 4000 | 100 | 8000 | rpm | OEM | OEM |
| Kp | 30 | 0 | 100 | % | OEM | OEM |
| Ki | 30 | 5 | 100 | % | OEM | OEM |
| Accel Rate | 2.5 | 0.1 | 30 | Seconds | OEM | OEM |
| Decel Rate | 10 | 0.1 | 30 | Seconds | OEM | OEM |
| Brake Rate | 1 | 0.1 | 30 | Seconds | OEM | OEM |
| Pump Enable | Off | Off | On | | OEM | OEM |
| 1 - Speed Mode | | | | | | |
| Speed Controller | | | | | | |
| Max Speed | 4000 | 100 | 8000 | rpm | OEM | OEM |
| Kp | 30 | 0 | 100 | % | OEM | OEM |
| Ki LS | 30 | 5 | 100 | % | OEM | OEM |
| Ki HS | 30 | 5 | 100 | % | OEM | OEM |
| Vel Feedforward | | | | | | |
| Kvff | 0 | 0 | 500 | Ampere | OEM | OEM |
| Build Rate | 1 | 0.1 | 5 | Seconds | OEM | OEM |
| Release Rate | 0.4 | 0.1 | 5 | Seconds | OEM | OEM |
| Acc Feedforward | | | | | | |
| Kaff | 0 | 0 | 500 | Ampere | OEM | OEM |
| Kbff | 0 | 0 | 500 | Ampere | OEM | OEM |
| Build Rate | 1 | 0.1 | 5 | Seconds | OEM | OEM |
| Release Rate | 0.4 | 0.1 | 5 | Seconds | OEM | OEM |
| Response | | | | | | |
| Full Accel Rate HS | 5 | 0.1 | 30 | Seconds | OEM | OEM |
| Full Accel Rate LS | 2.5 | 0.1 | 30 | Seconds | OEM | OEM |
| Low Accel Rate | 10 | 0.1 | 30 | Seconds | OEM | OEM |
| Neutral Decel Rate HS | 10 | 0.1 | 30 | Seconds | OEM | OEM |
| Neutral Decel Rate LS | 20 | 0.1 | 30 | Seconds | OEM | OEM |
| Full Brake Rate HS | 1 | 0.1 | 30 | Seconds | OEM | OEM |

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|------------------------------|-------|-----|-------|---------|--------------|-------|
| | | | | | Read | Write |
| Full Brake Rate LS | 2 | 0.1 | 30 | Seconds | OEM | OEM |
| Low Brake Rate | 4 | 0.1 | 30 | Seconds | OEM | OEM |
| Fine Tuning | | | | | | |
| Partial Decel Rate | 30 | 0.1 | 30 | Seconds | OEM | OEM |
| HS (High Speed) | 70 | 0 | 100 | % | OEM | OEM |
| LS (Low Speed) | 30 | 0 | 100 | % | OEM | OEM |
| Reversal Soften | 20 | 0 | 100 | % | OEM | OEM |
| Max Speed Accel | 1 | 0.1 | 30 | Seconds | OEM | OEM |
| Max Speed Decel | 0.5 | 0.1 | 30 | Seconds | OEM | OEM |
| Restraint | | | | | | |
| Restraint Forward | 50 | 0 | 100 | % | OEM | OEM |
| Restraint Back | 50 | 0 | 100 | % | OEM | OEM |
| Soft Stop Speed | 0 | 0 | 500 | rpm | OEM | OEM |
| Position Hold | | | | | | |
| Position Hold Enable | On | Off | On | | OEM | OEM |
| Position Hold Timeout Time | 0.5 | 0 | 20 | Seconds | OEM | OEM |
| Kp | 10 | 2 | 100 | % | OEM | OEM |
| Kd | 15 | 0 | 100 | % | OEM | OEM |
| Set Speed Settling Time | 994 | 0 | 5000 | ms | OEM | OEM |
| Set Speed Threshold | 30 | 5 | 100 | rpm | OEM | OEM |
| Entry Rate | 50 | 5 | 100 | % | OEM | OEM |
| Exit Rollback Reduction | 50 | 0 | 100 | % | OEM | OEM |
| Pump Enable | Off | Off | On | | OEM | OEM |
| 2 - Torque Mode | | | | | | |
| Speed Limiter | | | | | | |
| Max Speed | 4000 | 500 | 8000 | rpm | OEM | OEM |
| Kp | 30 | 0 | 100 | % | OEM | OEM |
| Ki | 30 | 5 | 100 | % | OEM | OEM |
| Kd | 10 | 0 | 100 | % | OEM | OEM |
| Response | | | | | | |
| Accel Rate | 1 | 0.1 | 30 | Seconds | OEM | OEM |
| Accel Release Rate | 0.4 | 0.1 | 2 | Seconds | OEM | OEM |
| Brake Rate | 1 | 0.1 | 5 | Seconds | OEM | OEM |
| Brake Release Rate | 0.4 | 0.1 | 2 | Seconds | OEM | OEM |
| Neutral Braking | 10 | 0 | 100 | % | OEM | OEM |
| Neutral Taper Speed | 500 | 200 | 6000 | rpm | OEM | OEM |
| Forward Full Restraint Speed | 800 | 100 | 32000 | rpm | OEM | OEM |
| Back Full Restraint Speed | 800 | 100 | 32000 | rpm | OEM | OEM |
| Fine Tuning | | | | | | |
| Creep Torque | 0 | 0 | 100 | % | OEM | OEM |
| Brake Full Creep Cancel | 50 | 25 | 100 | % | OEM | OEM |
| Creep Build Rate | 0.1 | 0.1 | 5 | Seconds | OEM | OEM |
| Creep Release Rate | 3 | 0.1 | 5 | Seconds | OEM | OEM |
| Gear Soften | 20 | 0 | 100 | % | OEM | OEM |
| Brake Taper Speed | 1000 | 200 | 6000 | rpm | OEM | OEM |

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|-------------------------------|-------|-----|------|---------|--------------|-------|
| | | | | | Read | Write |
| Reversal Soften | 20 | 0 | 100 | % | OEM | OEM |
| Max Speed Decel | 10 | 0.1 | 30 | Seconds | OEM | OEM |
| Current Limits | | | | | | |
| Drive Current Limit | 100 | 5 | 100 | % | OEM | OEM |
| Regen Current Limit | 100 | 5 | 100 | % | OEM | OEM |
| Brake Current Limit | 100 | 5 | 100 | % | OEM | OEM |
| EMR Current Limit | 100 | 5 | 100 | % | OEM | OEM |
| Interlock Brake Current Limit | 100 | 5 | 100 | % | OEM | OEM |
| Power Limiting Map | | | | | | |
| PL Nominal Speed | 500 | 100 | 4000 | rpm | OEM | OEM |
| Delta Speed | 500 | 50 | 1000 | rpm | OEM | OEM |
| Drive Limiting Map | | | | | | |
| Nominal | 90 | 0 | 100 | % | OEM | OEM |
| Plus Delta | 75 | 0 | 100 | % | OEM | OEM |
| Plus 2xDelta | 60 | 0 | 100 | % | OEM | OEM |
| Plus 4xDelta | 32 | 0 | 100 | % | OEM | OEM |
| Plus 8xDelta | 15 | 0 | 100 | % | OEM | OEM |
| Regen Limiting Map | | | | | | |
| Nominal | 100 | 0 | 100 | % | OEM | OEM |
| Plus Delta | 100 | 0 | 100 | % | OEM | OEM |
| Plus 2xDelta | 100 | 0 | 100 | % | OEM | OEM |
| Plus 4xDelta | 100 | 0 | 100 | % | OEM | OEM |
| Plus 8xDelta | 100 | 0 | 100 | % | OEM | OEM |
| Throttle | | | | | | |
| Throttle Type | 5 | 1 | 5 | | OEM | OEM |
| Forward Deadband | 0.5 | 0 | 5 | Volt | OEM | OEM |
| Forward Map | 35 | 0 | 100 | % | OEM | OEM |
| Forward Max | 4.5 | 0 | 5 | Volt | OEM | OEM |
| Forward Offset | 0 | 0 | 100 | % | OEM | OEM |
| Reverse Deadband | 0.5 | 0 | 5 | Volt | OEM | OEM |
| Reverse Map | 35 | 0 | 100 | % | OEM | OEM |
| Reverse Max | 4.5 | 0 | 5 | Volt | OEM | OEM |
| Reverse Offset | 0 | 0 | 100 | % | OEM | OEM |
| Throttle Filter | 10 | 2 | 125 | Hz | OEM | OEM |
| HPD SRO Type | 1 | 0 | 3 | | OEM | OEM |
| Sequencing Delay | 0.1 | 0 | 5 | Seconds | OEM | OEM |
| VCL Throttle Enable | Off | Off | On | | OEM | OEM |
| Brake | | | | | | |
| Brake Pedal Enable | Off | Off | On | | OEM | OEM |
| Brake Type | 5 | 1 | 5 | | OEM | OEM |
| Brake Deadband | 0.5 | 0 | 5 | Volt | OEM | OEM |
| Brake Map | 50 | 0 | 100 | % | OEM | OEM |
| Brake Max | 4.5 | 0 | 5 | Volt | OEM | OEM |
| Brake Offset | 0 | 0 | 100 | % | OEM | OEM |
| Brake Filter | 10 | 2 | 125 | Hz | OEM | OEM |

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| Parameter | Value | Min | Max | Unit | Access Level | |
|-----------------------------|-------|-----|------|---------|--------------|-------|
| | | | | | Read | Write |
| VCL Brake Enable | Off | Off | On | | OEM | OEM |
| EM Brake Control | | | | | | |
| Brake Type | 2 | 0 | 2 | | OEM | OEM |
| Pull In Voltage | 100 | 0 | 100 | % | OEM | OEM |
| Holding Voltage | 80 | 0 | 100 | % | OEM | OEM |
| Battery Voltage Compensated | On | Off | On | | OEM | OEM |
| Set EM Brake On Fault | On | Off | On | | OEM | OEM |
| Set Speed Threshold | 30 | 5 | 100 | rpm | OEM | OEM |
| Release Delay | 50 | 40 | 2000 | ms | OEM | OEM |
| Set Speed Settling Time | 994 | 0 | 5000 | ms | OEM | OEM |
| Torque Preload Delay | 200 | 0 | 800 | ms | OEM | OEM |
| Torque Preload Enable | On | Off | On | | OEM | OEM |
| Torque Preload Cancel Delay | 0 | 0 | 120 | Seconds | OEM | OEM |
| EM Brake Fault Motor Revs | 4 | 1 | 20 | | OEM | OEM |
| Drivers | | | | | | |
| Main Contactor | | | | | | |
| Main Enable | On | Off | On | | OEM | OEM |
| Main Interlock Type | 0 | 0 | 1 | | OEM | OEM |
| Pull In Voltage | 100 | 0 | 100 | % | OEM | OEM |
| Holding Voltage | 80 | 0 | 100 | % | OEM | OEM |
| Battery Voltage Compensated | On | Off | On | | OEM | OEM |
| Interlock Type | 0 | 0 | 2 | | OEM | OEM |
| Open Delay | 0.1 | 0 | 40 | Seconds | OEM | OEM |
| Weld Check Enable | On | Off | On | | OEM | OEM |
| Main DNC Check Enable | On | Off | On | | OEM | OEM |
| Main DNC Runtime Threshold | 5 | 0 | 200 | Volt | OEM | OEM |
| Precharge Enable | On | Off | On | | OEM | OEM |
| Proportional Driver | | | | | | |
| PD Enable | Off | Off | On | | OEM | OEM |
| Hyd Lower Enable | Off | Off | On | | OEM | OEM |
| PD Max Current | 2 | 0 | 2 | Ampere | OEM | OEM |
| PD Min Current | 0.05 | 0 | 2 | Ampere | OEM | OEM |
| PD Dither % | 0 | 0 | 100 | % | OEM | OEM |
| PD Dither Period | 16 | 16 | 112 | ms | OEM | OEM |
| PD Kp | 10 | 1 | 100 | % | OEM | OEM |
| PD Ki | 10 | 1 | 100 | % | OEM | OEM |
| Driver 3 | | | | | | |
| Contactors Enable | Off | Off | On | | OEM | OEM |
| Pull In Voltage | 100 | 0 | 100 | % | OEM | OEM |
| Holding Voltage | 80 | 0 | 100 | % | OEM | OEM |
| Fault Checking | | | | | | |
| Driver 1 Checks Enable | On | Off | On | | OEM | OEM |
| Driver 2 Checks Enable | On | Off | On | | OEM | OEM |
| Driver 3 Checks Enable | Off | Off | On | | OEM | OEM |
| Driver 4 Checks Enable | Off | Off | On | | OEM | OEM |

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| Parameter | Value | Min | Max | Unit | Access Level | |
|---------------------------------|-------|-----|------|---------|--------------|--------|
| | | | | | Read | Write |
| PD Checks Enable | Off | Off | On | | OEM | OEM |
| External Supply Max | 200 | 0 | 200 | mAmpere | OEM | OEM |
| External Supply Min | 0 | 0 | 200 | mAmpere | OEM | OEM |
| PWM Frequency | 200 | 100 | 1000 | Hz | OEM | OEM |
| Motor | | | | | | |
| Typical Max Speed | 4000 | 500 | 8000 | rpm | OEM | OEM |
| Swap Encoder Direction | Off | Off | On | | OEM | OEM |
| Swap Two Phases | On | Off | On | | OEM | OEM |
| Encoder Steps | 64 | 32 | 256 | | OEM | OEM |
| Encoder Fault Setup | | | | | | |
| Fault Detection Enable | On | Off | On | | OEM | OEM |
| Encoder Pulse Fault Detect Time | 0.5 | 0 | 3 | Seconds | OEM | OEM |
| Fault Stall Time | 5 | 0 | 10 | Seconds | OEM | OEM |
| LOS Upon Encoder Fault | On | Off | On | | OEM | OEM |
| LOS Max Speed | 500 | 100 | 2000 | rpm | OEM | OEM |
| LOS Max Current | 100 | 100 | 650 | Ampere | OEM | OEM |
| LOS Max Mod Depth | 50 | 15 | 100 | % | OEM | OEM |
| LOS Accel Rate | 7 | 2 | 15 | Seconds | OEM | OEM |
| LOS Decel Rate | 3 | 2 | 15 | Seconds | OEM | OEM |
| Temperature Control | | | | | | |
| Sensor Enable | On | Off | On | | OEM | OEM |
| Sensor Type | 3 | 1 | 5 | | OEM | OEM |
| Sensor Offset | 0 | -20 | 20 | deg C | OEM | OEM |
| Braking Thermal Cutback Enable | Off | Off | On | | OEM | OEM |
| Temperature Hot | 145 | 0 | 250 | deg C | OEM | OEM |
| Temperature Max | 160 | 0 | 250 | deg C | OEM | OEM |
| MotorTemp LOS Max Speed | 800 | 100 | 3000 | rpm | OEM | OEM |
| Battery | | | | | | |
| Nominal Voltage | 24 | 24 | 96 | Volt | OEM | OEM |
| Kp UV | 2.1 | 0 | 100 | % | OEM | OEM |
| Ki UV | 50 | 0 | 100 | % | OEM | OEM |
| User Overvoltage | 125 | 105 | 200 | % | OEM | OEM |
| User Undervoltage | 70 | 0 | 95 | % | OEM | OEM |
| Reset Volts Per Cell | 2.09 | 0.9 | 3 | Volt | Dealer | Dealer |
| Full Volts Per Cell | 2.04 | 0.9 | 3 | Volt | Dealer | Dealer |
| Empty Volts Per Cell | 1.73 | 0.9 | 3 | Volt | Dealer | Dealer |
| Discharge Time | 34 | 0 | 600 | Minutes | Dealer | Dealer |
| BDI Reset Percent | 75 | 0 | 100 | % | Dealer | Dealer |
| Dual Drive | | | | | | |
| Dual Motor Enable | Off | Off | On | | OEM | OEM |
| i: Dual Motor Slave | Off | Off | On | | OEM | OEM |
| CAN Node ID Other | 2 | 0 | 127 | | OEM | OEM |
| LOS Max Speed | 800 | 100 | 8000 | rpm | OEM | OEM |
| Master | | | | | | |
| Steer Angle Max (deg) | 90 | 45 | 90 | | OEM | OEM |

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|-------------------------|-------|------|------|---------|--------------|-------|
| | | | | | Read | Write |
| Turn Accel Rate | 5 | 0.1 | 30 | Seconds | OEM | OEM |
| Critical Angle (deg) | 70 | 45 | 90 | | OEM | OEM |
| Max Turn Speed | 30 | 0 | 100 | % | OEM | OEM |
| Inner Wheel Speed | -100 | -100 | 0 | % | OEM | OEM |
| Steer Type | 5 | 1 | 5 | | OEM | OEM |
| Steer Pot Min | 0.5 | 0 | 6.25 | Volt | OEM | OEM |
| Steer Pot Zero | 2.5 | 0 | 6.25 | Volt | OEM | OEM |
| Steer Pot Max | 4.5 | 0 | 6.25 | Volt | OEM | OEM |
| VCL Steer Enable | Off | Off | On | | OEM | OEM |
| Slave | | | | | | |
| Turn Accel Rate | 5 | 0.1 | 30 | Seconds | OEM | OEM |
| Critical Angle (deg) | 70 | 45 | 90 | | OEM | OEM |
| Steer Fault Min | 0.25 | 0 | 5.5 | Volt | OEM | OEM |
| Steer Fault Max | 4.75 | 0 | 5.5 | Volt | OEM | OEM |
| Turn Feedforward | | | | | | |
| Turn Accel Rate | 5 | 0.1 | 30 | Seconds | OEM | OEM |
| Turn Kvff | 0 | 0 | 500 | Ampere | OEM | OEM |
| Turn ff Build Rate | 1 | 0.1 | 5 | Seconds | OEM | OEM |
| Turn ff Release Rate | 0.4 | 0.1 | 2 | Seconds | OEM | OEM |
| Vehicle | | | | | | |
| Metric Units | Off | Off | On | | OEM | OEM |
| Speed to RPM | 631.6 | 10 | 3000 | | OEM | OEM |
| Capture Speed 1 | 4500 | 0 | 8000 | rpm | OEM | OEM |
| Capture Speed 2 | 4500 | 0 | 8000 | rpm | OEM | OEM |
| Capture Distance 1 | 22 | 1 | 1320 | | OEM | OEM |
| Capture Distance 2 | 100 | 1 | 1320 | | OEM | OEM |
| Capture Distance 3 | 150 | 1 | 1320 | | OEM | OEM |
| Emergency Reverse | | | | | | |
| EMR Enable | On | Off | On | | OEM | OEM |
| EMR Type | 1 | 0 | 3 | | OEM | OEM |
| EMR Dir Interlock | On | Off | On | | OEM | OEM |
| EMR Time Limit | 5 | 0 | 30 | Seconds | OEM | OEM |
| EMR Speed | 1000 | 50 | 6000 | rpm | OEM | OEM |
| EMR Accel Rate | 1 | 0.1 | 3 | Seconds | OEM | OEM |
| EMR Decel Rate | 1 | 0.1 | 3 | Seconds | OEM | OEM |
| Interlock Braking | | | | | | |
| Enable | On | Off | On | | OEM | OEM |
| Decel Rate HS | 1.5 | 0.1 | 30 | Seconds | OEM | OEM |
| Decel Rate LS | 2 | 0.1 | 30 | Seconds | OEM | OEM |
| Interlock Brake Timeout | 5 | 0 | 8 | Seconds | OEM | OEM |
| CAN Interface | | | | | | |
| CANopen Interlock | Off | Off | On | | OEM | OEM |
| CAN Node ID 1 | 38 | 0 | 127 | | OEM | OEM |
| CAN Node ID 2 | 38 | 0 | 127 | | OEM | OEM |
| CAN Node ID 3 | 38 | 0 | 127 | | OEM | OEM |

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|--|-------|-----|------|--------|--------------|-------|
| | | | | | Read | Write |
| CAN Node ID 4 | 38 | 0 | 127 | | OEM | OEM |
| Supervisor Node ID | 70 | 0 | 127 | | OEM | OEM |
| Baud Rate | 0 | -3 | 4 | | OEM | OEM |
| Heartbeat Rate | 100 | 16 | 200 | ms | OEM | OEM |
| PDO Timeout Period | 100 | 0 | 200 | ms | OEM | OEM |
| Emergency Message Rate | 16 | 16 | 200 | ms | OEM | OEM |
| Suppress CANopen Init | 0 | 0 | 1 | | OEM | OEM |
| Motor Control Tuning | | | | | | |
| IM Motor Characterization Tests | | | | | | |
| Test Enable | 0 | 0 | 1 | | OEM | OEM |
| Test Throttle | 0 | -1 | 1 | | OEM | OEM |
| Motor Poles | 4 | 2 | 8 | | OEM | OEM |
| Max Test Speed | 1000 | 500 | 3000 | rpm | OEM | OEM |
| Max Test Current | 70 | 20 | 100 | % | OEM | OEM |
| SlipGain | 5.5 | 0 | 200 | | OEM | OEM |
| Field Weakening Control | | | | | | |
| FW Base Speed | 1550 | 200 | 6000 | rpm | OEM | OEM |
| Field Weakening Drive | 30 | 0 | 100 | % | OEM | OEM |
| Field Weakening Regen | 15 | 0 | 100 | % | OEM | OEM |
| Weakening Rate Drive | 40 | 0 | 100 | % | OEM | OEM |
| Min Field Current | 0 | 0 | 800 | Ampere | OEM | OEM |
| Motor Type | 0 | 0 | 248 | | OEM | OEM |
| Reset Controller | 0 | 0 | 1 | | OEM | OEM |