CRANE VFD CALIBRATION LOG SHEET

EOT Crane Bridge (LT) & Trolley (CT) Travel Calibration SOP | Schneider ATV310 Series

SLITCRAFT.COM

CRANE BAY / ID:	DRIVE MODEL:	MOTOR RATING:	MOTION / AXIS:
Bay #1 - 30 Ton Coil Handling	**Schneider ATV310HU75N4E**	**7.5 kW / 11 kW (415V, 3-Phase)**	**Long Travel (LT) Drive**

1. VERIFIED TRAVEL MOTION PARAMETER SETTINGS

CODE	PARAMETER NAME	DEFAULT	TARGET CALIBRATED	LOGGED VALUE
512.2 (HSP)	High Speed Limit	50.0 Hz	**32.0 – 38.0 Hz**	_____ Hz
512.0 (LSP)	Low Speed Limit	0.0 Hz	**8.0 – 12.0 Hz**	_____ Hz
501.0 (ACC)	Acceleration Ramp	3.0 s	**5.0 – 7.0 s**	_____ s
501.1 (DEC)	Deceleration Ramp	3.0 s	**4.5 – 6.0 s**	_____ s
501.2 (RPT)	Ramp Curve Profile	[00] Linear	**[01] S-Shape**	[00] / [01]
301.0 (BFR)	Motor Base Frequency	50.0 Hz	**50.0 Hz**	_____ Hz
305.0 (ITH)	Thermal Overload Current	Drive In	**Motor Nameplate**	_____ A

2. ATV310 KEYPAD NAVIGATION SEQUENCE

Menu Path: Turn central dial to COnF → Press Dial → Scroll to FULL → Press Dial → Scroll to 500- (Functions) → Open 512- for Speed (HSP / LSP) or 501- for Ramps (ACC / DEC). Hold dial for 2s to store value. Press ESC to return.

CRITICAL SAFETY INTERLOCK: Before adjusting mechanical brakes, ensure the electro-hydraulic thruster / disc brake coil energizes synchronously with the run command and releases only when drive frequency reaches zero speed (≤ 1.0 Hz) to eliminate drive-against-brake friction drag.

3. PRE-DISPATCH & SAFETY ACCEPTANCE CHECKLIST

- ☐ Wheel traction verified; no slip on oily runway sections
- ☐ Suspended coil load swing settled within ≤ 1 oscillation cycle
- ☐ Motor surface heat verified ≤ 65°C after 30 min duty
- ☐ Remote radio pendant / cabin speed notches verified

4. MAINTENANCE AUTHORIZATION & QUALITY SIGN-OFF

Electrical Tech Signature:	Maintenance Head:	Date & Shift:
_____	_____	_____