



Drive Case Charts

Use Case 1 – Case 4 columns to record any changes and results when diagnosing the drive.

	Case 1	Case 2	Case 3	Case 4
Drive A1				
Contract car speed				
Contract motor speed				
Response				
Inertia				
Inner loop x-over				
Gain reduce mult				
Gain change level				
Tach rate gain				
Encoder pulses				
Mtr torque limit				
Reen torque limit				
Flux weaken factor				
Drive A5				
Motor ID				
Rated motor power				
Rated motor volts				
Rated excitation freq				
Rated motor current				
Motor poles				
Rated motor speed				
%no load current				
Stator leak. X				
Rotor leak X				
Stator resistance				
Motor iron losses				
Motor mech. Loss				
Ovld start level				
Ovld time out				
Flux sat. break				
flux sat slope 1				
flux sat slope 2				
Elevator Data D1				
speed command				
speed reference				
speed feed back				
speed error				
speed reg. Torque cmd				
est inertia				
	Case 1	Case 2	Case 3	Case 4
Power Data D2				
Torque ref				
motor current				
% motor current				
Motor voltage				
motor frequency				



	Case 1	Case 2	Case 3	Case 4
motor torque				
Power o/p				
Dc bus voltage				
Flux ref				
Flux o/p				
slip				
motor ovld				
drive ovld				
Flux current				
Torque current				
Flux voltage				
torque voltage				
Base impedance				
Est no load current				
Est rated RPM				

Table A

Terminal Backup Case Charts

Referenced by Section 6 page 6-14 through 6-15

Command		Pos Count	COTn	Count Distance	Distance (inches)
ULB	Uplimit Pos 1 (ULR1)				
	Uplimit Pos 2 * (ULR2)				
EUB	ETS Up Pos (EUR)				

Table B

Note: Count Distance =COT of Top Floor – Pos Count
Distance In = Count distance $\div \left(\frac{DPF}{10} \div 12 \right)$

Command		Pos Count	1000	Count Distance	Distance (inches)
DLB	Dn Limit Pos 1 (DLR1)				
	Dn Limit Pos 2 * (DLR2)				
EDB	ETS Dn Pos (EDR)				

Table C

Command		Up Velocity	Down Velocity	
TUB/TDB	Lim Vel 1			TSV1 = Avg. + 15
TUB/TDB	Lim Vel 2 *			TSV2 = Avg. + 15
ETB	ETS VEL 1			ETV1 = Avg. + 20
ETB	ETS VEL 2			ETV2 = Avg. + 20
ETB	ETS VEL 3*			ETV3 = Avg. + 20
ETB	ETS VEL 4*			ETV4 = Avg. + 20
ESB	VIC VEL 1			ESV1 = Avg. + 15
ESB	VIC VEL 2*			

Table D

* = If required.

TVS1 = Avg. UP and DN Vel + 15fpm