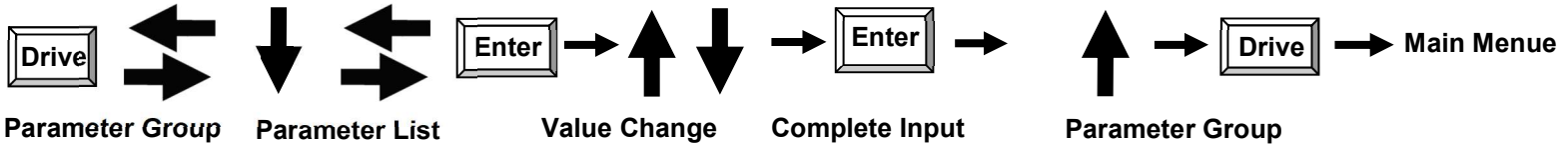
DANFOSS - NEW Control



Motor Data	Encoder	Brake	Mechanic	Speeds	PID Controller	Comfort
19-01 Motor Number	32-00 Incremental Signal Type	19-13 Brake Lift Delay	19-10 Traction Sheave	19-20 Max. Speed	19-40 Kp Gain At Start	19-30 Acceleration
1-10 Motor Type (PM / ASM)	32-01 Incremental Resolution	19-14 Brake Delay	19-11 Ratio	19-21 V4	19-42 Tn Time At Start	19-31 Deceleration
1-20 Nominal Power (ASM)	19-07 Encoder-Resolution	19-15 Brake Close Delay	19-12 Suspension	19-24 V3	19-44 Filtertime Start	19-32 Start Jerk
1-22 Nominal Voltage (ASM)	19-03 Encoder Autotun	19-58 Delay after Stop	19-64 Store Parameter	19-25 V2	19-46 Pos. Gain Start	19-33 Acceleration Jerk
1-23 Nominal Frequency (ASM)	19-04 Car Direction	19-59 Torque down Time		19-28 V1	19-41 Kp Gain At Operation	19-34 Deceleration Jerk
1-24 Motor Current (PM / ASM)	19-05 Encoder Direction	19-64 Store Parameter		19-22 V0	19-43 Tn Time Operation	19-35 Run In Jerk
1-25 Nominal Speed (PM / ASM)	19-06 Encoder-Monitor			19-23 Vi	19-45 Filtertime Operation	19-38 Comfort
1-26 Nominal Torque (PM)	19-08 Abs.-Encoder Type			19-26 Vn	19-47 Position Error Start	19-64 Store Parameter
1-30 Stator Resistance (PM / ASM)	19-09 Abs.-Encoder Offset			19-64 Store Parameter	19-48 Position Error max	
1-37 d-axis Inductance (Ld) (PM)	19-64 Store Parameter				19-64 Store Parameter	
1-39 Motor Poles (PM)						
1-40 Back-EMF (PM)						
19-02 cos phi (ASM)						
19-64 Store Parameter						

Start Functionen	Stop Function	Service	VLT Limits	Alarm Log	Status	SBU
19-16 Max. Torque	19-19 Run In Distance At V0	19-60 Test-Run Mode	4-18 Current Limit	19-80 Log Number	19-92 Status	19-77 SBU_Control
19-17 Source Start Torque	19-27 Floor Level At Vnach	19-62 Open Loop	4-16 Torque Limit Motor	19-81 Error Code	19-90 Software-Vers.	19-78 SBU Value
19-57 Start Time	19-64 Store Parameter	19-65 Monitoring Function	4-17 Torque Limit Generator	19-82 Error Time	19-99 Distance During Decele.	19-64 Store Parameter
19-55 Start Acceleration		19-87 Brake Monitor Delay	1-53 Model Shift Frequency	19-83 Function Error Log	16-17 Speed	
19-56 Start Speed		19-67 Function Relay 1	14-01 Switching Frequency		16-14 Motor Current	
19-64 Store Parameter		19-68 Time Delay Cost	14-50 RFI-Filter Active		34-50 Actual Position	
		19-69 Sync. Position	19-64 Store Parameter		19-98 Abs.-Encoder Pos.	
		19-72 DCP4 Corr. Factor.			19-71 Setup Counter	
		19-84 Function X59.1-7			19-93 Direction Counter 1	
		19-70 Monitor Drive + Motor			19-94 Direction Counter 2	
		19-63 Motor Adaption				
		19-88 Fast Boot Mode				
		19-53 Controll V1				
		19-54 Controll V2				
		19-64 Store Parameter				

Operating with PM-Motor

1-10 Motor type = 1

1-24 Nominal current = see motor name plate

1-25 Nominal speed = see motor name plate

1-26 Nominal toeque = see motor name plate

1-30 Stator resistance (Rs) = see motor name plate

1-37 d-axis Inductance (Ld) = see motor name plate

1-39 Motor poles = see motor name plate

1-40 Back-EMF = see motor name plate

19-63 Motor adaption = 1, measure of Par. 1-30, 1-37 and 1-40, start inspection incl. ropes in stand still

32-00 Incremental signal = 2 (ECN1313)

32-01 Inkremental resolution = 2048 (ECN1313)

19-08 Abs.-Encoder Type = 12 (ENDAT/ECN1313)

After encoder error / encoder change

19-62 Open loop emergency operation = 1

19-09 Abs.-encoder offset = -2 (Offset measurement / start inspection 200 mm fahren)

Operating with ASM-Motor

1-10 Motor type = 0

1-20 Nominal power = see motor name plate

1-22 Nominal voltage = see motor name plate

1-23 Nominal frequency = see motor name plate

1-24 Nominal current = see motor name plate

1-25 Nominal speed = see motor name plate

19-02 Power factor cos phi = see motor name plate

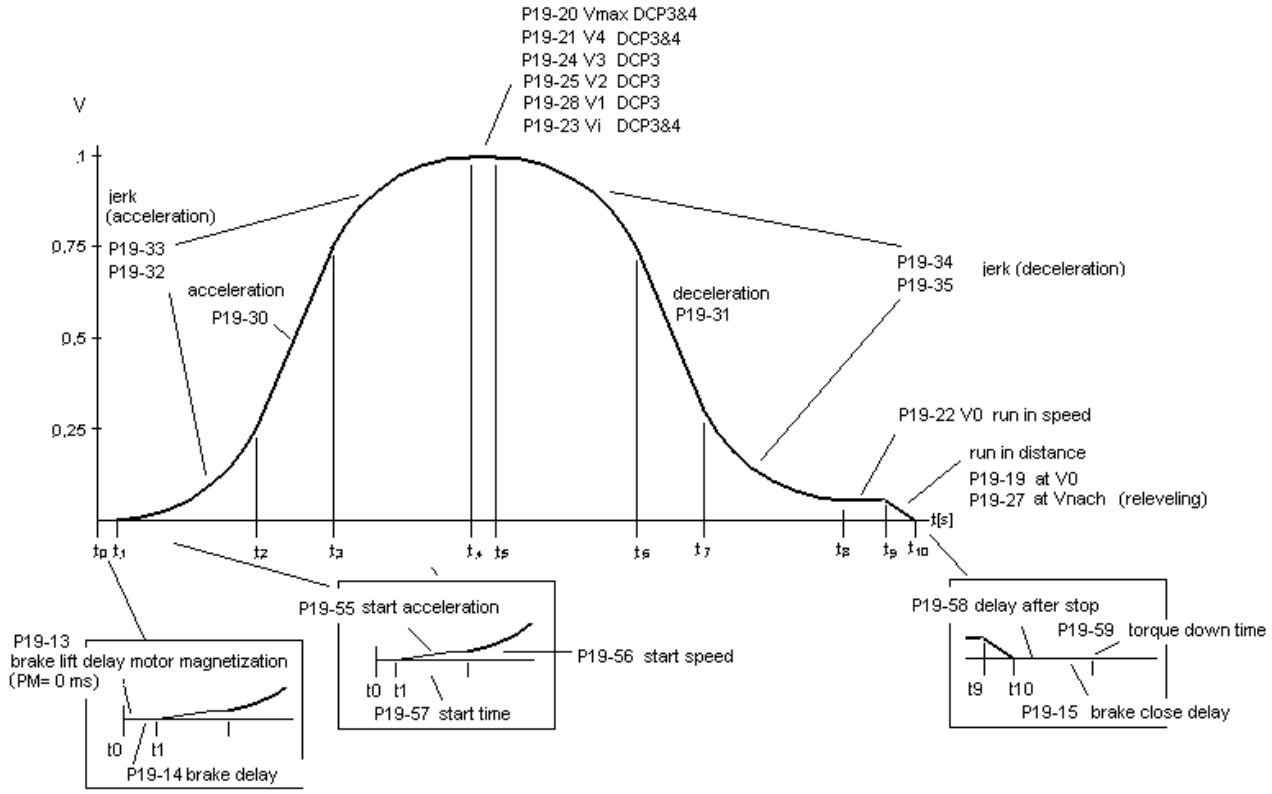
1-63 Motor adaption = 1 , measure of motor, start inspection incl. ropes in stand still

32-00 Incremental signal = 1 (5 V TTL) ; 2 = (SIN/COS)

32-01 Incremental resolution = i.e. 1024
HTL-encoder / OpenLoop operation – instructions for commissioning found in the Danfoss quick guide at www.iba-lift.de/support-download

After encoder error / encoder change

19-62 Open loop emergency operation = 1



Driving direction counter

19-71 Set counter = Set travel direction counter , coded value

19-93 Counter 1 value shows the remaining number of trips

Brake release monitoring

19-65 Monitoring = XX2 (activate brake monitoring, normaly closed contacts

19-64 Store parameter = -1 (reset the inverter after brake failure)

19-64 Store parameter = -8902 and switch power off/on (disable brake monitoring)

19-87 Brake monitoring delay. = (Brake release monitoring delay time)

Car travel direction

19-04 Direction of travel = 1 (Change the traveling direction of car)

Operation with site electricity

14-50 RFI-Filter = 0 (Filter switch off, reduce leakage current)

Function: Relay 1

19-67 Funktion Relais 1 = 6 (V>0,2 m/s)

Function: Short circuit contactor

19-84 Function X59.1-7 = 500030 (Control KSM X59.6)

Function: Test run mode

19-60 Test drive mode = 0 disabled

19-60 Test drive mode = 1 driving one traction sheave revolution, withVi

19-60 Test drive mode = 2 shaking the car, for pulling out of safety gear

https://iba-lift.de/support-download/
Quick Guide VLT® LiftDrive LD 302.pdf

Observance of danfoss safety and operating instructions !