



## 1 [Simply start] *S Y S -*

### 1.1 [Macro Config] *C F G*

- [Start/Stop] *b S t S*
- [Auto/Manual] *b A M M*
- [PID controller] *b P i d*
- [Preset speeds] *b P S P*
- [Modbus] *b M b C*
- [Multi-pump 1] *b M P 1*
- [Multi-pump 2] *b M P 2*

### 1.2 [Simply start] *S i n -*

- [Nominal Motor Power] *n P r*
- [Nom Motor Current] *n C r*
- [Motor Th Current] *i t H*
- [Acceleration] *a C C*
- [Deceleration] *d E C*
- [Low speed] *L S P*
- [High speed] *H S P*
- [Output Ph Rotation] *P H r*
- [Ref Freq 1 Config] *F r 1*
- [OutPhaseLoss Assign] *o P L*
- [2/3-Wire Control] *t C C*
- [Dual rating] *d r t*

### 1.3 [Modified parameters] *L n d -*

## 2 [Display] *n o n -*

### 2.1 [Motor parameters] *n n o -*

- [Motor Speed] *S P d*
- [Motor voltage] *u o P*
- [Motor Power] *o P r*
- [Motor Torque] *o t r*
- [Motor Current] *L C r*
- [Motor Therm State] *t H r*

### 2.2 [Drive parameters] *n P i -*

- [Pre-Ramp Ref Freq] *F r H*
- [Ref Frequency] *L F r*
- [Motor Frequency] *r F r*
- [Mains Voltage] *u L n*
- [DC bus voltage] *V b u S*
- [Drive Therm State] *t H d*
- [Used param. set] *C F P S*
- [Motor Run Time] *r t H H*
- [Power-on time] *P t H H*
- [IGBT Warning Counter] *t A C*
- [PID reference] *r P C*
- [PID feedback] *r P F*
- [PID Error] *r P E*
- [PID Output] *r P o*

### 2.3 [I/O Map] *i o n -*

- [Digital Input Map] *L i A -*
- [Analog inputs image] *A i A -*
  - [AI(x) assignment] *A i X A*
  - [AI(x) Min. Value] *u i L X*
  - [AI(x) Max Value] *u i H X*
  - [AI(x) Min. Value] *C r L X*
  - [AI(x) Max Value] *C r H X*
  - [AI(x) filter] *A i X F*

where *x* is a number from 1 to 5
- [Analog outputs image] *A o A -*
  - [AQ(x) assignment] *A o X*
  - [AQ(x) min Output] *u o L X*
  - [AQ(x) max Output] *u o H X*
  - [AQ(x) min output] *A o L X*
  - [AQ(x) max output] *A o H X*
  - [Scaling AQ(x)min] *A S L X*
  - [Scaling AQ(x)max] *A S H X*
  - [AQ(x) Filter] *A o X F*

where *x* is a number from 1 to 2
- [Digital Output Map] *L o A*

### 2.4 [Energy parameters] *E n P -*

- [Motor Consumption] *n E 4*
- [Motor Consumption] *n E 3*
- [Motor Consumption] *n E 2*
- [Motor Consumption] *n E 1*
- [Motor Consumption] *n E 0*

### 2.5 [Communication map] *C n n -*

- [Command Channel] *C n d C*
- [Cmd Register] *C n d*
- [Ref Freq Channel] *r F C C*
- [Pre-Ramp Ref Freq] *F r H*
- [CIA402 State Reg] *E t A*
- [Modbus network diag] *n n d -*

- [COM LED] *n d b l*
- [Mdb Frame Nb] *n l c t*
- [Mdb NET CRC errors] *n l E c*
- [Com. scanner input map] *i S A -*
  - [Com Scan In(x) val.] *n n l* to *n n B*
- [Com scan output map] *o S A -*
  - [Com Scan Out(x) val.] *n C l* to *n C B*
- [Modbus HMI diag] *n d H -*
- [COM LED] *n d b 2*
- [Mdb NET frames] *n 2 c t*
- [Mdb NET CRC errors] *n 2 E c*
- [Command word image] *C W i -*
- [Modbus Cmd] *C n d l*
- [COM. Module cmd.] *C n d 3*
- [Freq. ref. word map] *r W i -*
  - [Modbus Ref Freq] *L F r i*
  - [Com Module Ref Freq] *L F r 3*

### 2.6 [Application Parameters] *A P r -*

- [Variable Speed Pump] *A P P -*
  - [Available Pumps] *n P A n*
  - [Nb of Staged Pumps] *n P S n*
  - [Lead Pump] *P L i d*
  - [Next Staged Pump] *P n t S*
  - [Next Destaged Pump] *P n t d*
  - [Pump (x) State] *P X S*
  - [Pump (x) Type] *P X t*
  - [Pump (x) Runtime] *P X o t*
  - [Pump (x) Nb Starts] *P X n S*

where *x* is a number from 1 to 6
- [Booster Control Pump] *b c P -*
- [Booster Status] *b c S*

## 3 [Diagnostics] *d i A -*

### 3.1 [Diag. data] *d d t -*

- [Last Warning] *L A L r*
- [Last Error] *L F t*
- [Nb Of Starts] *n S n*
- [Motor Run Time] *r t H*
- [Other State] *S S t*
- [Identification] *o i d*

### 3.2 [Error history] *P F H -*

- [Last Error (x)] *d P l* to *d P B*
  - [Drive state] *H S x*
  - [Last Error (x) Status] *E P x*
  - [ETI state word] *i P x*
  - [Cmd word] *C n P x*
  - [Motor current] *L C P x*
  - [Output frequency] *r F P x*
  - [Elapsed time] *r t P x*
  - [DC bus voltage] *u L P x*
  - [Motor therm state] *t H P x*
  - [Command Channel] *d C C x*
  - [Ref Freq Channel] *d r C x*
  - [Motor Torque] *o t P x*
  - [Drive Thermal State] *t d P x*
  - [IGBT Junction Temp] *t J P x*
  - [Switching Frequency] *S F P x*

where *x* is a number from 1 to 8

### 3.3 [Warnings] *A L r -*

- [Actual Warnings] *A L r d*
- [Warning History] *A L h*

[-] after *c o d E* means there are more parameters levels

Some parameters have visibility constraints, see ATV610 Programming manual (EAV64387) on [www.se.com](http://www.se.com)



## 4 [Complete settings] *C S t -*

### 4.1 [Motor parameters] *n P A -*

- [Motor Standard] *b F r*
- [Nominal Motor Power] *n P r*
- [Nom Motor Voltage] *u n S*
- [Nom Motor Current] *n C r*
- [Nominal Motor Freq] *F r S*
- [Nominal Motor Speed] *n S P*
- [Max frequency] *t F r*
- [Motor Th Current] *i t H*
- [Output Ph Rotation] *P H r*
- [Motor control type] *C t t*
- [Sync Nominal I] *n C r S (1)*
- [Nom SyncMotor Speed] *n S P S (1)*
- [Nom Motor torque] *t q S (1)*
- [Pole pairs] *P P n S (1)*
- [Angle setting type] *A S t (1)*
- [Syn. EMF constant] *P H S (1)*
- [SyncMotor Stator R] *r S A S (1)*
- [Autotune L d-axis] *L d S (1)*
- [Autotune L q-axis] *L q S (1)*
- [Sync Nominal Freq] *F r S S (1)*
- [PSI Align Curr Max] *n C r (1)*
- [Relative d-axis error] *r r d A E (1)*
- [Saliency mot. state] *S n o t (1)*
- [Tune selection] *S t u n (1)*
- [Rotational Current Level] *r C L (1)*
- [Rotational Torque Current] *r t C (1)*
- [RCI Max Freq] *r C S P (1)*
- [RCI Round Nb] *r C r P (1)*
- [RCI With Transformer] *r C i r (1)*
- [U/F Profile] *P F L*
- [U1] *u 1*
- [F1] *F 1*
- [U2] *u 2*
- [F2] *F 2*
- [U3] *u 3*
- [F3] *F 3*
- [U4] *u 4*
- [F4] *F 4*
- [U5] *u 5*
- [F5] *F 5*
- [IR compensation] *u F r*
- [Slip compensation] *S L P*
- [Switching frequency] *S F r*
- [Switch Freq Type] *S F t*
- [Noise Reduction] *n r d*
- [Motor surge limit.] *S V L*
- [Attenuation Time] *S o P*
- [Current Limitation] *C L i*
- [Autotuning] *t u n*
- [Autotuning Status] *t u S*
- [Dual rating] *d r t*
- [Boost activation] *b o A*
- [Boost] *b o o*
- [Freq Boost] *F A b*
- [Input Filter] *d C r -*
  - [Input Filter] *i F i*
  - [DC Bus Ripple Config] *d C r C*
  - [DC Bus Rip Amp Val] *d C r A*
  - [DC Bus Rip Est Freq] *d C r F*
  - [DC Bus Rip Counter] *d C r d*
  - [Cur Loop Config Gain] *C r b*
  - [Cur Loop Default Gain] *C r b A*
  - [Cur Loop Damp Coef] *C r d r*

(1) Not available for Frame Size 7 = ATV610C22N4 ATV610C25N4

### 4.2 [Input/Output] *i o -*

- [2/3-Wire Control] *t C C*
- [2-wire type] *t C t*
- [Reverse Assign] *r r S*
- [D11 Assignment] *L i l C -*
  - [D11 Low Assignment] *L i l*
  - [D11 High Assignment] *L i H*
  - [D11 Delay] *L i d*
- [D12 Assignment] *L i 2 C -*
- [D13 Assignment] *L i 3 C -*
- [D14 Assignment] *L i 4 C -*
- [D15 Assignment] *L i 5 C -*
- [D16 Assignment] *L i 6 C -*
- [D111 Assignment] *L i 1 1 C -*
- [D112 Assignment] *L i 1 2 C -*
- [D113 Assignment] *L i 1 3 C -*
- [D114 Assignment] *L i 1 4 C -*
- [D115 Assignment] *L i 1 5 C -*
- [D116 Assignment] *L i 1 6 C -*

[Ref Freq template] *bSP*  
 [AI1 configuration] *A, I -*  
 [AI1 assignment] *A, IA*  
 [AI1 Type] *A, IE*  
 [AI1 Min. Value] *u, L I*  
 [AI1 Max Value] *u, H I*  
 [AI1 Min. Value] *Cr L I*  
 [AI1 Max Value] *Cr H I*  
 [AI1 filter] *A, IF*  
 [AI1 Intern. point X] *A, IE*  
 [AI1 Intern. point Y] *A, IS*  
 [AI2 configuration] *A, I 2 -*  
 [AI3 configuration] *A, I 3 -*  
 [AI4 configuration] *A, I 4 -*  
 [AI5 configuration] *A, I 5 -*  
 [AIV1 assignment] *AV IA -*  
 [DQ11 configuration] *do 11 -*  
 [DQ12 configuration] *do 12 -*  
 [R1 configuration] *r I -*  
 [R1 Assignment] *r I*  
 [R1 Delay time] *r Id*  
 [R1 Active at] *r IS*  
 [R1 Holding time] *r IH*  
 [R2 configuration] *r 2 -*  
 [R3 configuration] *r 3 -*  
 [R4 configuration] *r 4 -*  
 [R5 configuration] *r 5 -*  
 [R6 configuration] *r 6 -*  
 [AQ1 configuration] *Ao 1 -*  
 [AQ1 assignment] *Ao I -*  
 [AQ1 Type] *Ao IE*  
 [AQ1 min output] *Ao L I*  
 [AQ1 max output] *Ao H I*  
 [AQ1 min output] *uo L I*  
 [AQ1 max output] *uo H I*  
 [Scaling AQ1 min] *ASL I*  
 [Scaling AQ1 max] *ASH I*  
 [AQ1 Filter] *Ao IF*  
 [AQ2 configuration] *Ao 2 -*

#### 4.3 [Command and Reference] *Cr P -*

[Low Speed] *LS P*  
 [High Speed] *HSP*  
 [Ref Freq 1 Config] *F r I*  
 [Reverse Disable] *r in*  
 [Stop Key Enable] *PS t*  
 [Control Mode] *CHCF*  
 [Command Switching] *CCS*  
 [Cmd channel 1] *C d 1*  
 [Cmd channel 2] *C d 2*  
 [Freq Switch Assign] *r FC*  
 [Ref Freq 2 Config] *F r 2*  
 [Copy Ch1-Ch2] *C o P*  
 [Forced Local Freq] *FL o C*  
 [Time-out forc. local] *FL o t*  
 [Forced Local Assign] *FL o*  
 [HMI cmd.] *b NP*

#### 4.4 [Generic functions] *CSGF -*

[Ramp] *r ANP -*  
 [Ramp Type] *r Pt*  
 [Ramp increment] *in r*  
 [Acceleration] *ACC*  
 [Deceleration] *dEC*  
 [Begin Acc round] *EA 1*  
 [End Acc round] *EA 2*  
 [Begin Dec round] *EA 3*  
 [End Dec round] *EA 4*  
 [Ramp 2 Thd] *F r t*  
 [Ramp Switch Assign] *r PS*  
 [Acceleration 2] *ACC 2*  
 [Deceleration 2] *dEC 2*  
 [Dec.Ramp Adapt] *br A*  
 [+/- speed] *u PD -*  
 [+ Speed Assign] *u SP -*  
 [- Speed Assign] *d SP -*  
 [Ref Frequency Save] *SE r*  
 [Stop configuration] *SE t -*  
 [Type of stop] *SE t*  
 [Freewheel Stop] *n SE*  
 [Freewheel stop Thd] *FF t*  
 [Fast Stop Assign] *FS t -*  
 [Ramp Divider] *dCF*  
 [DC Injection Assign] *dC I*  
 [DC Inj Level 1] *i dC*  
 [DC Inj Time 1] *Ed I*  
 [DC Inj Level 2] *i dC 2*  
 [DC Inj Time 2] *Ed C*  
 [Auto DC injection] *AdC -*  
 [Auto DC injection] *AdC*  
 [Auto DC inj Level 1] *S dC I*  
 [Auto DC inj Time 1] *Ed C I*  
 [Auto DC inj Level 2] *S dC 2*  
 [Auto DC inj Time 2] *Ed C 2*  
 [Jog] *Jo G -*  
 [Jog Assign] *Jo G -*  
 [Jog Frequency] *Jo F*

[Jog Delay] *Jo t*  
 [Preset Speeds] *PS S -*  
 [2 Preset Freq] *PS 2*  
 [4 Preset Freq] *PS 4*  
 [8 Preset Freq] *PS 8*  
 [16 Preset Freq] *PS 16*  
 [Preset Speed 2] *SP 2*  
 [Preset Speed 3] *SP 3*  
 [Preset Speed 4] *SP 4*  
 [Preset Speed 5] *SP 5*  
 [Preset Speed 6] *SP 6*  
 [Preset Speed 7] *SP 7*  
 [Preset Speed 8] *SP 8*  
 [Preset Speed 9] *SP 9*  
 [Preset Speed 10] *SP 10*  
 [Preset Speed 11] *SP 11*  
 [Preset Speed 12] *SP 12*  
 [Preset Speed 13] *SP 13*  
 [Preset Speed 14] *SP 14*  
 [Preset Speed 15] *SP 15*  
 [Preset Speed 16] *SP 16*

[Skip Frequency] *JPF*  
 [Skip Frequency 2] *JF 2*  
 [3rd Skip Frequency] *JF 3*  
 [Skip Freq.Hysteresis] *JFH*  
 [Define system units] *Su C -*  
 [P sensor unit] *Su P r*  
 [Flow rate unit] *Su F r*  
 [Temperature unit] *Su t P*  
 [Currency unit list] *Su C u*  
 [Liquid Density] *r Ho*  
 [PID controller] *P id -*  
 [PID Feedback] *F db*  
 [Type of control] *t o C t*  
 [PID feedback Assign] *P i F*  
 [Min PID feedback] *P i F I*  
 [Max PID feedback] *P i F 2*  
 [PID feedback] *r P F*  
 [Min fbk Warning] *P AL*  
 [Max fbk Warning] *P AH*  
 [PID Reference] *r F -*  
 [Intern PID Ref] *P i r*  
 [Ref Freq 1 Config] *F r I*  
 [Min PID Process] *P i P I*  
 [Max PID Process] *P i P 2*  
 [Internal PID ref] *r P i*  
 [Auto/Manual assign.] *P A u*  
 [Manual PID reference] *P i n*  
 [PID preset references] *P r i -*  
 [2 PID Preset Assign] *P r 2*  
 [4 PID Preset Assign] *P r 4*  
 [Ref PID Preset 2] *r P 2*  
 [Ref PID Preset 3] *r P 3*  
 [Ref PID Preset 4] *r P 4*  
 [Predictive Speed Ref] *F P i*  
 [Speed input %] *PS P*

[Settings] *SE -*  
 [PID Prop.Gain] *r PG*  
 [PID Intgl.Gain] *r i G*  
 [PID derivative gain] *r d G*  
 [PID ramp] *P r P*  
 [PID Inversion] *P i C*  
 [PID Min Output] *P o L*  
 [PID Max Output] *P o H*  
 [PID error Warning] *P E r*  
 [PID Integral OFF] *P i S*  
 [PID acceleration time] *ACC P*  
 [PID Start Ref Freq] *S F S*

[Sleep/Wakeup] *SP W*  
 [Sleep menu] *SL P -*  
 [Sleep Detect Mode] *SL P n*  
 [Sleep Switch Assign] *SL P w*  
 [Inst. Flow Assign.] *FS IA*  
 [Sleep Flow Level] *SL n L*  
 [Sleep Pressure Level] *SL P L*  
 [Sleep Min Speed] *SL S L*  
 [Sleep Power Level] *SL P r*  
 [Sleep Delay] *SL P d*  
 [Boost] *S b t -*  
 [Sleep Boost Speed] *SL b S*  
 [Sleep Boost Time] *SL b t*  
 [Advanced sleep check] *AdS -*  
 [Sleep Mode] *ASL n*  
 [Sleep Condition] *ASL C*  
 [Sleep Check Delay] *ASL d*  
 [Check Sleep Ref spd] *ASL r*  
 [Wake up menu] *Wk P -*  
 [Wake Up Mode] *Wu P n*  
 [Wake Up Process level] *Wu P F*  
 [Wake Up Process Error] *Wu P E*  
 [Wake Up Delay] *Wu P d*  
 [Threshold reached] *t H r E -*  
 [High Current Thd] *C t d*  
 [Low I Threshold] *C t d L*  
 [Motor Freq Thd] *F t d*  
 [Low Freq.Threshold] *F t d L*  
 [Freq. threshold 2] *F 2 d*

[2 Freq. Threshold] *F 2 d L*  
 [Motor Therm Thd] *t t d*  
 [Reference high Thd] *r t d*  
 [Reference low Thd] *r t d L*  
 [Mains contactor command] *L L C -*  
 [Mains V. time out] *L c t*  
 [Mains Contactor] *L L c*  
 [Drive Lock] *LE S*  
 [Parameters switching] *NP L P -*  
 [2 Parameter sets] *ch A I*  
 [3 Parameter sets] *ch A 2*  
 [Parameter Selection] *SP S*  
 [Stop after speed timeout] *P r S P -*  
 [Low Speed Timeout] *t L S*  
 [Sleep Offset Thres.] *S L E*  
 [Advanced sleep check] *Ad S*  
 [Sleep Mode] *ASL n*  
 [Sleep Condition] *ASL c*  
 [Sleep Check Delay] *ASL d*  
 [Check Sleep Ref spd] *ASL r*  
 [Booster Control] *b S t -*  
 [System Architecture] *NP 9 -*  
 [Pump System Arch] *NP S A*  
 [Nb Of Pumps] *NP P n*  
 [Pumps Configuration] *P u NP P -*  
 [Pump 1 Cmd Assign] *NP o 1*  
 [Pump 1 Ready Assign] *NP i 1*  
 [Pump 2 Cmd Assign] *NP o 2*  
 [Pump 2 Ready Assign] *NP i 2*  
 [Pump 3 Cmd Assign] *NP o 3*  
 [Pump 3 Ready Assign] *NP i 3*  
 [Pump 4 Cmd Assign] *NP o 4*  
 [Pump 4 Ready Assign] *NP i 4*  
 [Pump 5 Cmd Assign] *NP o 5*  
 [Pump 5 Ready Assign] *NP i 5*  
 [Pump 6 Cmd Assign] *NP o 6*  
 [Pump 6 Ready Assign] *NP i 6*  
 [Pump Cycling Mode] *NP P c*  
 [Lead Pump Altern.] *NP L A*  
 [Altern Wait Time] *NP A t*  
 [Pump Auto Cycling] *NP c P*  
 [Pump Ready Delay] *NP i d*  
 [MultiPump ErrorResp] *NP F b*  
 [Booster Control] *b S c -*  
 [Booster Control] *b c n*  
 [Stage/Destage Cond.] *S d c n -*  
 [Boost Working range] *b c w A*  
 [Booster Stg Delay] *b S d*  
 [Booster Dstg Delay] *b d d*  
 [Boost Override range] *b c o A*  
 [Booster S/D Interval] *b S d t*

#### 4.5 [Generic monitoring] *GP r -*

[Stall monitoring] *SE P r -*  
 [Stall monitoring] *SE P c*  
 [Stall Max Time] *SE P I*  
 [Stall Current] *SE P 2*  
 [Stall Frequency] *SE P 3*  
 [Therm sensor monit] *n t SP -*  
 [AI2 Th Monitoring] *t h 2 S*  
 [AI2 Type] *A i 2 t*  
 [AI2 Th Warn Level] *t h 2 A*  
 [AI2 Th Error Level] *t h 2 F*  
 [AI2 Th Error Resp] *t h 2 B*  
 [AI2 Th Value] *t h 2 V*  
 [AI3 Th Monitoring] *t h 3 S*  
 [AI3 Type] *A i 3 t*  
 [AI3 Th Warn Level] *t h 3 A*  
 [AI3 Th Error Level] *t h 3 F*  
 [AI3 Th Error Resp] *t h 3 B*  
 [AI3 Th Value] *t h 3 V*  
 [AI4 Th Monitoring] *t h 4 S*  
 [AI4 Th Warn Level] *t h 4 A*  
 [AI4 Th Error Level] *t h 4 F*  
 [AI4 Th Error Resp] *t h 4 B*  
 [AI4 Th Value] *t h 4 V*  
 [AI5 Th Monitoring] *t h 5 S*  
 [AI5 Th Warn Level] *t h 5 A*  
 [AI5 Th Error Level] *t h 5 F*  
 [AI5 Th Error Resp] *t h 5 B*  
 [AI5 Th Value] *t h 5 V*

#### 4.6 [Error/Warning handling] *CSW n -*

[Fault Reset] *r SE -*  
 [Fault Reset Assign] *r SF*  
 [Prod Restart Assign] *r P R*  
 [Product restart] *r P*  
 [Auto Fault Reset] *AE r -*  
 [Auto Fault Reset] *AE r*  
 [Fault Reset Time] *t A r*  
 [Catch on the fly] *FL r -*  
 [Catch On Fly] *FL r*  
 [Catch on Fly Sensitivity] *V c b*  
 [Motor thermal monit] *t H t -*  
 [Motor Thermal Mode] *t h t*  
 [Motor Therm Thd] *t t d*  
 [MotorTemp ErrorResp] *o L L*

[Output phase Loss] *oPL -*  
 [OutPhaseLoss Assign] *oPL*  
 [OutPhaseLoss Delay] *odt*  
 [Input phase loss] *iPL -*  
 [InPhaseLoss Assign] *iPL*  
 [External error] *EtF -*  
 [Ext Error assign] *EEF*  
 [Ext Error Resp] *EPL*  
 [Undervoltage handling] *uSb -*  
 [Undervoltage Resp] *uSb*  
 [Mains voltage] *urES*  
 [Undervoltage level] *uSL*  
 [UnderVolt timeout] *uSt*  
 [Stop Type PLoss] *StP*  
 [UnderV. restart tm] *ESn*  
 [Prevention level] *uPL*  
 [Max stop time] *Stn*  
 [DC bus maintain time] *tbS*  
 [Ground Fault] *GrFL -*  
 [Ground Fault Activation] *GrFL*  
 [4-20 mA loss] *LFL -*  
 [AI1 4-20mA loss] *LFL1*  
 [AI2 4-20mA loss] *LFL2*  
 [AI3 4-20mA loss] *LFL3*  
 [AI4 4-20mA loss] *LFL4*  
 [AI5 4-20mA loss] *LFL5*  
 [Fallback speed] *FFF -*  
 [Fallback speed] *FFF*  
 [Error detection disable] *inh -*  
 [ErrorDetect Disable] *inh*  
 [Fieldbus Interrupt Resp] *CLL -*  
 [Modbus Error Resp] *SLL*  
 [Communication Module] *CoPi -*  
 [Fieldbus Interrupt Resp] *CLL*  
 [Tuning Error Resp] *enL*  
 [Process underload] *uLd -*  
 [Unld T. Del. Detect] *uLd*  
 [Unld.Thr.Nom.Speed] *Lun*  
 [Unld.Thr.0.Speed] *LuL*  
 [Unld. FreqThr. Det.] *rNud*  
 [Hysteresis Freq] *Srb*  
 [Underload Mangmt.] *uDL*  
 [Underload T.B.Rest.] *Ftu*  
 [Process overload] *oLd -*  
 [Ovld Time Detect.] *oLd*  
 [Ovld Detection Thr.] *LoC*  
 [Hysteresis Freq] *Srb*  
 [Ovld.Proces.Mngmt] *oDL*  
 [Overload T.B.Rest.] *Fto*  
 [Warning groups config] *AGCF -*  
 [Warn grp 1 definition] *A1c*  
 [Warn grp 2 definition] *A2c*  
 [Warn grp 3 definition] *A3c*  
 [Warn grp 4 definition] *A4c*  
 [Warn grp 5 definition] *A5c*

#### 4.7 [Maintenance] *CSnR -*

[Diagnostics] *dRu -*  
 [FAN Diagnostics] *Fnt*  
 [LED Diagnostics] *hLt*  
 [IGBT Diagnostics with motor] *iWt*  
 [IGBT Diagnostics w/o motor] *iWo*  
 [Fan management] *FAnR -*  
 [Fan mode] *FFn*  
 [Time Counter Reset] *rPr*  
 [Overmodul. Activation] *oVnR*

#### 5 [Communication] *CoPi -*

[Modbus Address] *Add*  
 [Modbus baud rate] *tbr*  
 [Modbus Format] *tFo*  
 [ModbusTimeout] *tto*  
 [Com. scanner input] *iCS -*  
 [Scan. IN1 address] *nNA1*  
 [Scan. IN2 address] *nNA2*  
 [Scan. IN3 address] *nNA3*  
 [Scan. IN4 address] *nNA4*  
 [Scan. IN5 address] *nNA5*  
 [Scan. IN6 address] *nNA6*  
 [Scan. IN7 address] *nNA7*  
 [Scan. IN8 address] *nNA8*  
 [Com. scanner output] *oCS -*  
 [Scan.Out1 address] *ncA1*  
 [Scan.Out2 address] *ncA2*  
 [Scan.Out3 address] *ncA3*  
 [Scan.Out4 address] *ncA4*  
 [Scan.Out5 address] *ncA5*  
 [Scan.Out6 address] *ncA6*  
 [Scan.Out7 address] *ncA7*  
 [Scan.Out8 address] *ncA8*  
 [Profibus] *Pbc -*  
 [Address] *Adrc*

#### 6 [File management] *FntE -*

##### 6.1 [Transfer config file] *tCF -*

[Copy to the drive] *oPF*  
 [Copy from the drive] *SrF*

##### 6.2 [Factory settings] *FCS -*

[Config. Source] *FCS*  
 [Parameter group list] *Fry*  
 [Go to Factory Settings] *GFS*  
 [Save Configuration] *SCS*

##### 6.3 [Firmware Update] *FWuP -*

[Firmware update diag] *FWud -*  
 [Firmware Update Status] *FWSt*  
 [Firmware Update Error] *FWEr*  
 [Identification] *oid -*  
 [Package version] *PfV -*  
 [Package Type] *PkTP*  
 [Package Version] *PkV5*  
 [Update Firmware] *FWuP -*  
 [Abort Firmware Update] *FWCL*

#### 7 [My preferences] *MyP -*

##### 7.1 [Language] *LnG -*

##### 7.2 [Password] *CoD -*

[Password status] *PStt*  
 [Password] *PWd*  
 [Upload rights] *uLr*  
 [Download rights] *dLr*

##### 7.3 [Customization] *CoS -*

[Display screen type] *nSc -*  
 [Display value type] *ndt*  
 [Parameter Selection] *nPc*

##### 7.4 [Access Level] *LAc -*

[Basic] *bAs*  
 [Expert] *EPe*

##### 7.5 [LCD settings] *cnL -*

[Screen Contrast] *csE*  
 [Standby] *SbY*  
 [Display Terminal locked] *KLCK*



## Troubleshooting

Scan the QR code in front of the drive to get the error codes explanations in the *Diagnostics* section.

# Notes