

Main 30 Protection Parameters

Group 30.1 Fault Function

These parameter values can be altered with the ACS 500 running. The Range/Unit column in Table 6-15 shows parameter values. The text following the table explains parameter values in detail.

Table 6-15 Group 30.1

Parameter	Range/Unit	Description
1 SERIAL FAULT FUNC	STOP/ PRE SPEED7	Operation in case of Serial Communication fault.
2 AI < MIN FUNCTION	NO/WARNING/ FAULT/ PRE SPEED7/ LAST SPEED	Operation in case of AI <Minimum fault.
3 MOT TEMP FLT FUNC	NO/WARNING/ FAULT	Operation in case of motor overtemp.
4 MOTOR THERM TIME	20 – 10000s	Time for 63% temperature rise.
5 MOTOR LOAD CURVE	50 – 150%	Motor current maximum limit.
6 ZERO SPEED LOAD	40% - MOTOR LOAD CURVE	Motor load curve point at zero speed.
7 BREAK POINT	1 Hz – 500 Hz	Break point of motor load curve.
8 STALL FUNCTION	NO/WARNING/ FAULT	Operation in case of motor stall.
9 STALL CURRENT	0 – 1.5 times drive current rating.	Current limit for Stall protection logic.
10 STALL TIME/FREQ	10s/15Hz or 20s/ 25Hz or 30s/35Hz	Time/Freq limit for Stall protection logic.
11 UNDERLOAD FUNC	NO/WARNING/ FAULT	Operation in case of Underload fault.
12 UNDERLOAD TIME	0 – 600s	Time limit for Underload logic.
13 UNDERLOAD CURVE	1 – 5	Torque limit for Underload logic.

1 SERIAL FAULT FUNC

This parameter allows you to select the preferred operation in case of a malfunction in serial communication between Control Interface and Motor Control Cards.

STOP

The ACS 500 stops according to the setting of Parameter 20.2.3 (Stop Function).

**Group 30.4
Information**

You cannot alter these parameter values. The Range/Unit column in Table 6-19 shows parameter values. The text following the table explains parameter values in detail.

Table 6-19 Group 30.4

Parameter	Range/Unit	Description
1 CRI PROG VERSION	CRUxxy	Control Interface Card program version.
2 MC PROG VERSION	MCRxxy/CNTxxy	Motor Control Card program version.
3 TEST DATE	YY.MM.DD	Test date (year,month,day).

1 CRI PROG VERSION This parameter displays the Control Interface Card version installed in your ACS 500.

2 MC PROG VERSION This parameter displays the Motor Control Card version installed in your ACS 500.

3 TEST DATE This parameter displays the test date of the ACS 500.

**Group 30.5
I/O Status**

You cannot alter these parameter values. The Range/Unit column in Table 6-20 shows parameter values. The text following the table explains parameter values in detail. The parameters in this group show the status of the I/O.

Table 6-20 Group 30.5

Parameter	Range/Unit	Description
1 DI1-6 STATUS	000000	Indication of the status of the six digital inputs. 0=Open; 1=Closed
2 AI1 V/mA	0.00/ 0.00	Signal at Analog Input 1 in volts and milliamps
3 AI2 V/mA	0.00/ 0.00	Signal at Analog Input 2 in volts and milliamps
4 RO1-3 STATUS	000	Indication of the status of the three relay outputs. 0=Open; 1=Closed
5 AO1 mA/%	0.00/ 0%	Signal at Analog Output 1 in milliamps and percent.
6 AO2 mA/%	0.00/ 0%	Signal at Analog Output 2 in milliamps and percent.