

Configuration Mode - Complete menu (FULL)

200 -
300 -
400 -
500 -
600 -
700 -

Code	Name/Description	Adjustment range	Factory setting
500 -	Function menu (continued)		
59 -	PID menu		
59.00 00 01	☐ PID feedback assignment ☐ Not assigned. ☐ Analog terminal. Choice not possible if 401 is set to 01.		00
59.01 ()	☐ PID proportional gain Visible only if PID feedback assignment 59.00 is not set to 00 .	0.01 to 100	1
59.02 ()	☐ PID integral gain Visible only if PID feedback assignment 59.00 is not set to 00 .	0.01 to 100	1
59.03 ()	☐ PID derivative gain Visible only if PID feedback assignment 59.00 is not set to 00 .	0.00 to 100.00	0.00
59.04 ()	☐ PID feedback scale factor This parameter gives the relation between process range and feedback range. Visible only if PID feedback assignment 59.00 is not set to 00 .	0.1 to 100.0	1.0
59.05 00 01	☐ Activation internal PID reference value Visible only if PID feedback assignment 59.00 is not set to 00 . ☐ No ☐ Yes		00
59.06 00 L1H L2H L3H L4H LUH	☐ 2 preset PID assignment Visible only if PID feedback assignment 59.00 is not set to 00 . ☐ None ☐ L1h ☐ L2h ☐ L3h ☐ L4h ☐ LUH		00



Parameter that can be modified during operation or when stopped.

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Code	Name/Description	Adjustment range	Factory setting
500 -	Function menu (continued)		
59 -	PID menu (continued)		
59.07 00 L 1H L 2H L 3H L 4H L uH	☐ 4 preset PID assignment Visible only if PID feedback assignment 59.00 (page 66) is not set to 00. ☐ None ☐ L1h ☐ L2h ☐ L3h ☐ L4h ☐ LUH Before assigning 4 preset PID assignment 59.07, 2 preset PID assignment 59.06 (page 66) must be assigned.		00
59.08 ()	☐ 2 preset PID reference value Visible only if PID feedback assignment 59.00 (page 66) and 2 preset PID assignment 59.06 (page 66) are not set to 00.	0 to 100%	25%
59.09 ()	☐ 3 preset PID reference value Visible only if PID feedback assignment 59.00 (page 66) and 4 preset PID assignment 59.07 (page 66) are not set to 00.	0 to 100%	50%
59.10 ()	☐ 4 preset PID reference value Visible only if PID feedback assignment 59.00 (page 66), 2 preset PID assignment 59.06 and 4 preset PID assignment 59.07 (page 66) are not set to 00.	0 to 100%	75%
59.11 ()	☐ Internal PID reference value Visible only if PID feedback assignment 59.00 (page 66) is not set to 00 and Activation internal PID reference value 59.05 (page 66) is set to 01 or Reference channel 1 401 (page 59) is set to 163.	0 to 100%	0%
59.12 ()	☐ PID reference value ramp Visible only if PID feedback assignment 59.00 (page 66) is not set to 00.	0 to 99.9 s	0 s
59.13 ()	☐ PID min value reference Visible only if PID feedback assignment 59.00 (page 66) is not set to 00.	0 to 100%	0%
59.14 ()	☐ PID max value reference Visible only if PID feedback assignment 59.00 (page 66) is not set to 00.	0 to 100%	100%
59.15	☐ PID predictive speed This parameter allows direct attainment of a set speed reference. Visible only if PID feedback assignment 59.00 (page 66) is not set to 00.	0.1 to 400 Hz	nO

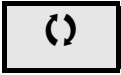


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59 -	PID menu (continued)		
50.14 	☐ Acceleration 2 This parameter only can be activated when the system is starting. Second acceleration ramp time, adjustable from 0.1 to 999.9 s. The time required to accelerate from 0 to Rated motor frequency 30.6 (page 53). Make sure that this value is compatible with the inertia being driven. Visible only if PID feedback assignment 59.00 (page 66) and PID predictive speed 59.15 (page 67) are not set to 00 .	0.0 to 999.9 s	5.0 s
59.16 00 01 02 03	☐ PID correction reverse This parameter will reverse the internal error value of PID system. ☐ No, no negative speed ☐ Yes, no negative speed ☐ No, allow negative speed ☐ Yes, allow negative speed Visible only if: PID feedback assignment 59.00 (page 66) is not set to 00 Negative speed possible only if Low speed 512.0 is set to 00 Reverse inhibition 404 is set to 00		00
59.17 00 L1H L2H L3H L4H LUH	☐ PID auto/manual assignment At state 0 of input, PID is active. At state 1 of input, manual run is active. ☐ No ☐ L1h: LI1 active high ☐ L2h: LI2 active high ☐ L3h: LI3 active high ☐ L4h: LI4 active high ☐ LUh: LIU active high Visible only if PID feedback assignment 59.00 (page 66) is not set to 00 .		00
59.18 00 01 02	☐ PID manual reference This parameter can disable the PID and enable the standard manual reference. ☐ No ☐ Analog terminal ☐ Integrated display with Jog dial Visible only if PID feedback assignment 59.00 (page 66) and PID auto/manual assignment 59.17 (page 68) are not set to 00 .		00
512.1 	☐ Low speed operating time A motor stop is requested automatically following a defined period of operation at Low speed 512.0 (page 86). The motor restarts if the frequency reference is greater than Low speed 512.0 and if a run command is still present. Note: 00 value corresponds to an unlimited period. Visible only if PID feedback assignment 59.00 (page 66) is not set to 00 .	0.1 to 999.9 s	00



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500 -	Function menu (continued)		
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59.19	☐ PID: wake up level If PID functions and Low speed operating time 5 12. 1 are set at the same time, the PID regulator may try to set a speed lower than Low speed 5 12. 0. This will result in unwanted operations consisting of starting, running at Low speed 5 12. 0, stopping and so on. Parameter PID: wake up level 59. 19 can be used to set a minimum PID error threshold to restart after a prolonged stop below Low speed 5 12. 0. Visible only if PID feedback assignment 59. 0 0 (page 66) and Low speed operating time 5 12. 1 (page 68) are not set to 0 0.	0 to 100%	0%
59.20 ()	☐ PID: Wake up threshold If PID correction reverse 59. 16 (page 68) is set to nO, this parameter can be used to set the PID feedback threshold. Following a stop caused by exceeding the maximum time at low speed 5 12. 1, the PID regulator is reactivated (wake-up) when this threshold is exceeded. If 59. 16 is set to 0 1, the PID regulator is reactivated (wake-up) when this threshold is exceeded, following a stop caused by exceeding the maximum time at low speed 5 12. 1. Visible only if PID feedback assignment 59. 0 0 (page 66) and Low speed operating time 5 12. 1 (page 86) is not set to 0 0.	0 to 100%	0%



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