

I/O Control Parameters

Function No.	Function Description	Action
40	Motor control parameter switching V/Hz, current limit, acceleration/deceleration pattern	OFF: 1 st motor control parameter set active: (<i>PE</i> , <i>UL</i> , <i>ULU</i> , <i>UB</i> , <i>THR</i> , <i>ACC</i> , <i>DEC</i> , <i>F502</i> , <i>F601</i>) ON: 2 nd motor control parameter set active: (<i>PE</i> = 0, <i>F170</i> , <i>F171</i> , <i>F172</i> , <i>F173</i> , <i>F185</i> , <i>F500</i> , <i>F501</i> , <i>F503</i>)
41	(+) speed input	OFF: No motor speed increase ON: Motor accelerates
42	(-) speed input	OFF: No motor speed reduction ON: Motor decelerates
43	+/- speed clear	OFF to ON transition clears frequency level set by +/- speed inputs
44	Combination of +/- speed clear and fault reset	OFF to ON transition clears frequency level set by +/- speed inputs ON to OFF transition resets fault (if cause of fault has cleared)
45	Inversion of external fault signal (see also input function 11)	OFF: Motor stops according to method set by parameter <i>F603</i> graphic display terminal displays <i>E</i> fault ON: No external fault
46	External overheating fault input (see also input function 47)	OFF: No external overheating fault ON: Motor stops, graphic display terminal displays <i>OH2</i> fault
47	Inversion of external overheating fault input (see also input function 46)	OFF: Motor stops, graphic display terminal displays <i>OH2</i> fault ON: No external overheating fault
48	Forced local	OFF: No forced local function ON: Control of the drive is forced to mode set by <i>FNOd</i> , <i>CNOd</i> , and <i>F207</i>
49	3-wire control stop input	OFF: Motor ramps down to a stop ON: drive ready for operation
51	Clear accumulated power consumption kWh display	OFF: No function ON: Clears kWh memory
52	<p>Fire-mode drive operation Available only if <i>F650</i> = 1 Set <i>F294</i> to proper level</p> <div style="border: 1px solid black; padding: 5px; margin: 5px 0;"> <p style="text-align: center;">⚠ DANGER</p> <p style="text-align: center;">LOSS OF STOP FUNCTION</p> <p>When the fire mode input function is used, the drive can not be stopped unless power is removed from the drive.</p> <p style="text-align: center;">Failure to follow this instruction will result in death or serious injury.</p> </div>	<p>OFF: No function ON: Motor runs at speed set by <i>F294</i></p> <p>The following actions/events will NOT stop the drive and motor:</p> <ul style="list-style-type: none"> • Setting the fire-mode input to OFF • Pressing the STOP key • The following drive faults: <i>OC1</i>, <i>OC2</i>, <i>OC3</i>, <i>OC1P</i>, <i>OC2P</i>, <i>OC3P</i>, <i>OP1</i>, <i>OP2</i>, <i>OP3</i>, <i>OL1</i>, <i>OL2</i>, <i>OH</i>, <i>SOU</i>
53	Forced-mode drive operation Available only if <i>F650</i> = 1 Set <i>F294</i> to proper level	OFF: No function ON: Motor runs at speed set by <i>F294</i> Setting the forced-mode input to OFF will NOT stop the drive Pressing the STOP key will stop the drive
54	Inversion of run permissive (see also input function 1)	OFF: drive ready for operation ON: drive motor output disabled, motor coasts to stop
55	Inversion of fault reset (see also input function 10)	OFF to ON transition resets fault (if cause of fault has cleared)
56	Combination of run permissive and run forward command (2-wire control only)	OFF: drive motor output disabled, motor coasts to stop ON: Motor runs forward
57	Combination of run permissive and run reverse command (2-wire control only)	OFF: drive motor output disabled, motor coasts to stop ON: Motor runs reverse
61	Current limit level selection	OFF: Current limit level 1 <i>F601</i> selected ON: Current limit level 2 <i>F185</i> selected