

External fault via logical input is always activated.

But for fault reset there is a rules: only a reset order coming from the active command channel will be take into account by the drive.

In fact, to reset a fault, there are 3 things to respect:

- First, the root cause must be remove
- And only after, the reset bit or reset logic input must be set to 1. Set to one mean that the drive must see the rising edge on this reset bit or logic input.
- And this reset must be send by the active command channel.

In drivecom profile (when CHCF = SIM or SEP)

The reset bit is automatically configured to the bit 7 of CMD.

**Control word (CMD)**

bit 7	bit 6	bit 5	bit 4	bit 3	bit 2	bit 1	bit 0
Fault reset				Enable operation	Quick stop	Enable voltage	Switch on
Ack. fault	Reserved (=0)	Reserved (=0)	Reserved (=0)	Run command	Emergency stop	Authorization to supply AC power	Contact control
bit 15	bit 14	bit 13	bit 12	bit 11	bit 10	bit 9	bit 8
Assignable	Assignable	Assignable	Assignable	By default, direction of rotation command.	Reserved (=0)	Reserved (=0)	Halt
							Halt

In your case:

Command come from Ethernet.

External fault by LI → drive in fault

Reset fault on LI (RSF function) → The reset is not done because the command come from Ethernet.

In this case the reset does not come from the active channel.

If you switch with T/K, the channel active become the HMI and so the reset button on HMI works.

That you can do:

Command come from Ethernet: so reset must come from Ethernet

When fault conditions are removed (LI5 = 1) send rising edge on the bit 7 of CMD word via Ethernet to reset the fault.

If you absolutely need reset on Logic input and command from Ethernet

You do not configure the RSF function to LI4.

But you check with PLC, the drive in fault. Then check the Logic input state (IL1R parameter).

IL1R	bit 0:	Value of LI1
	bit 1:	Value of LI2
	bit 2:	Value of LI3
	bit 3:	Value of LI4
	bit 4:	Value of LI5
	bit 5:	Value of LI6
	bit 6:	Value of LI7
	bit 7:	Value of LI8
	bit 8:	Value of LI9
bit 9:	Value of LI10	
bit 10:	Value of LI11	

IF Drive in fault and LI5=1 and rising edge on LI4 then send bit 7 of CMD word via Ethernet to reset the fault.

Another possibility

Use RPA (product reset). This function can be assign to logic input and will allow a hard reset of all fault even with the active command channel is not the terminal. Just one point, this is fault reset that force the drive to reboot.