













2	1	
Start I/O No.	0010	
Operation Setting	Operation Setting	
Type	Master Station	
Station No.	0	Tipo de red (según esclavos)
Master Station Data Link Type	PLC Parameter Auto Start	
Mode	Remote Net(Ver. 1 Mode)	
Transmission Speed	10Mbps	
Total Module Connected	2	
Remote Input(RX)	M0	Bits/registros para el auto refresco
Remote Output(RY)	M64	
Remote Register(RWr)	D0	
Remote Register(RWw)	D8	
Ver. 2 Remote Input(RX)		
Ver. 2 Remote Output(RY)		
Ver. 2 Remote Register(RWr)		
Ver. 2 Remote Register(RWw)		
Special Relay(SB)	SB0	Bits/registros para el control de la red
Special Register(SW)	SW0	
Retry Count	3	
Automatic Reconnection Station Count	1	
Standby Master Station No.		
PLC Down Select	Stop	
Scan Mode Setting	Asynchronous	
Delay Time Setting	0	
Station Information Setting	Station Information	Definición de las estaciones esclavas
Remote Device Station Initial Setting	Initial Setting	
Interrupt Settings	Interrupt Settings	

**3**

Station No.	Station Type	Expanded Cyclic Setting	Number of Occupied Stations	Remote Station Points	Reserve/Invalid Station Select	Intelligent Buffer Select(Word)		
						Send	Receive	Automatic
1/ 1	Remote Device Station	Single	Occupied Station 1	32Points	No Setting			
2/ 2	Remote Device Station	Single	Occupied Station 1	32Points	No Setting			

### Auto refresco

La estación master de *CC-Link* de la serie *L* permite mapear los esclavos conectados directamente en variables de CPU, con lo que no es necesario programar las líneas de código encargadas de transferir los datos entre ambos módulos.

## PROGRAMANDO...

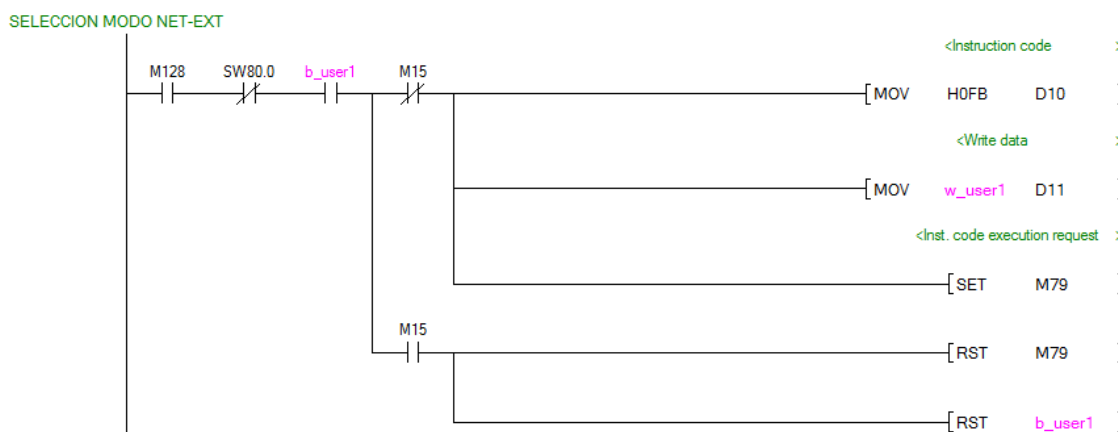
A continuación se detallan las líneas de código necesarias y suficientes para una conexión básica. No se han contemplado otras opciones tales como el tratamiento de errores.

### Master

Para las líneas de código que se adjuntan, el modulo *LJ61BT11* debe conectarse en la posición 2 (slot 0, posición XY H10), esto es inmediatamente después de las I/O integradas de la CPU.

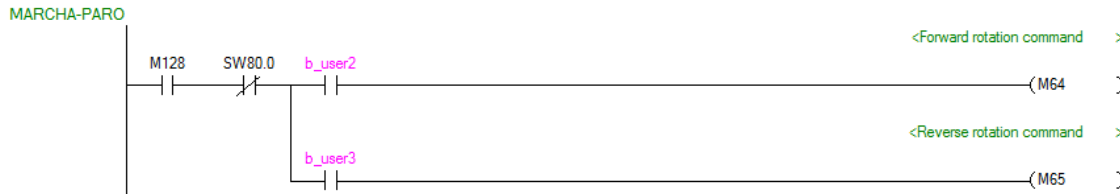


si com OK y esclavo 1 OK...

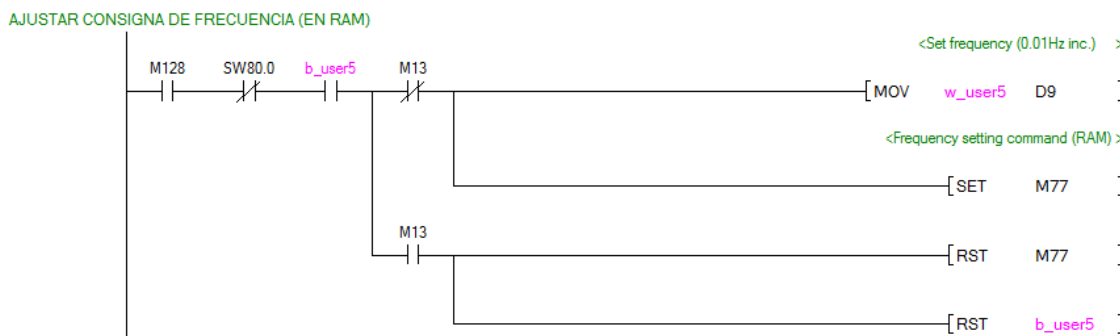
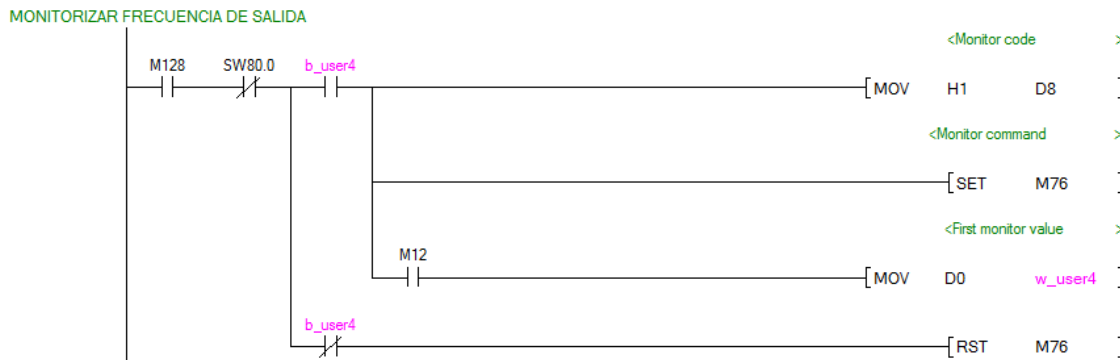


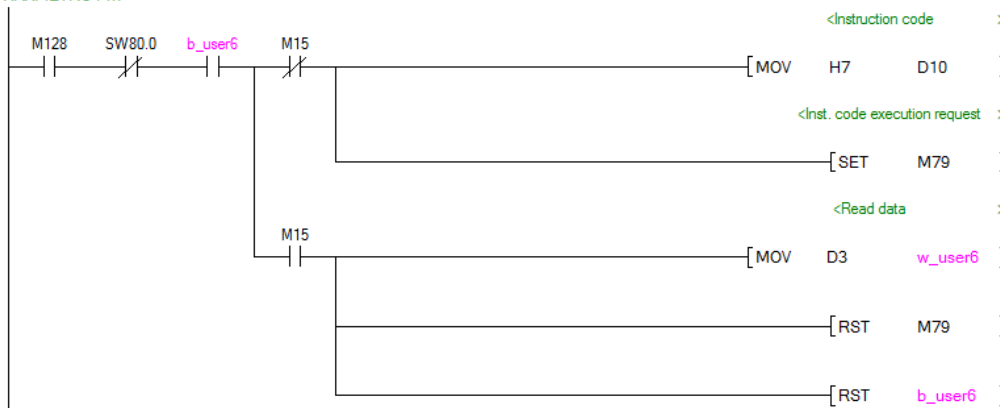
Observaciones: Para modo NETWORK poner *w\_user1* a 0. Para modo EXTERNAL poner *w\_user1* a 1.



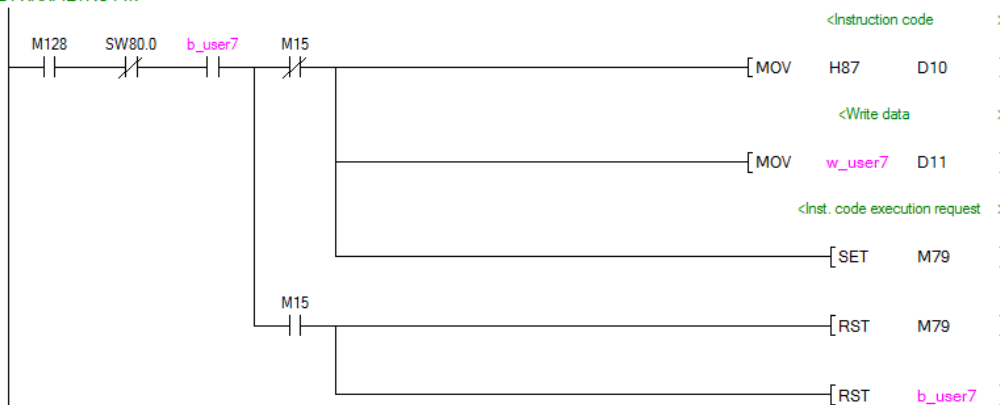


Observaciones: Para MARCHA poner M64 o M65 (según sentido de giro) a ON. Para PARO poner M64 y M65 a OFF o a ON.

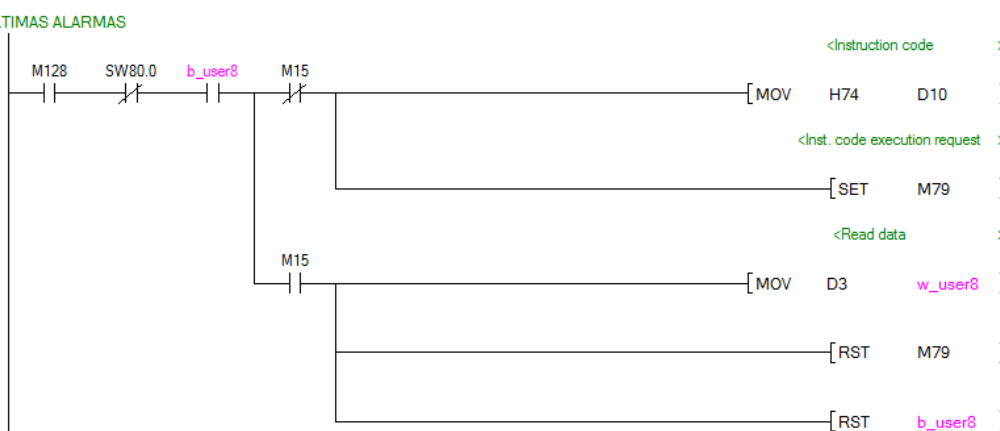


**LECTURA DE PARAMETRO Pr.7**


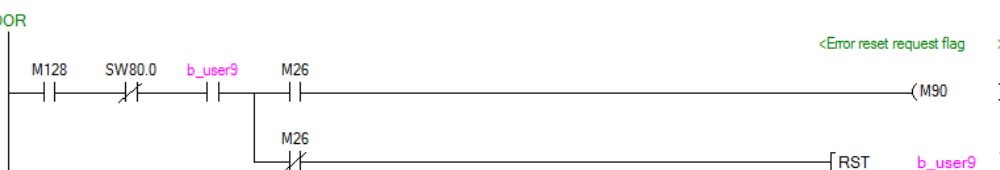
Observaciones: Para el “instruction code” asociado al parámetro referirse al manual del variador.

**ESCRITURA DE PARAMETRO Pr.7**


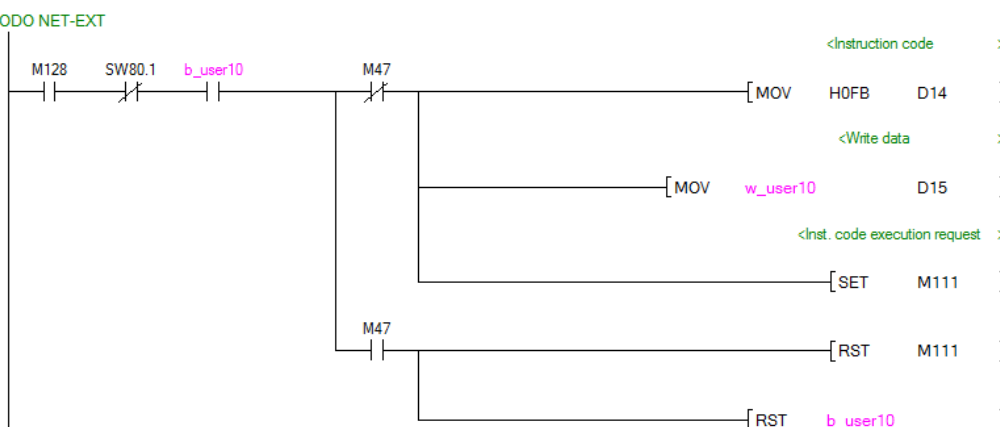
Observaciones: El formato de los datos (consigna y parámetros) en el variador es del tipo ###,# (también ##,##). El formato del dato a escribir o del dato leído es #####.

**LECTURA 2 ULTIMAS ALARMAS**


Observaciones: La última alarma se almacena en el byte bajo de **w\_user8** y la penúltima en el byte alto.

**RESET VARIADOR**


si com OK y esclavo 2 OK...

**SELECCION MODO NET-EXT**


Para implementar la comunicación con la estación número 2, basta con repetir las líneas de código presentadas con las señales RX y RY y los registros RWw y RWr correspondientes a dicha estación.

**OBSERVACIÓN:** Para una correcta interpretación de los programas presentados es recomendable dirigirse al manual de programación del módulo correspondiente.

## **AJUSTANDO... (las estaciones *FR-A7NC*)**

### **EL NÚMERO DE ESTACIÓN**

El parámetro Pr. 542 permite la configuración del número de estación.

### **LA VELOCIDAD DE COMUNICACIÓN**

El parámetro Pr. 543 permite la configuración de la velocidad de comunicación.

Parámetro	Ajuste	Descripción
Pr. 543 (Baud rate selection)	0	156kbps
	1	625kbps
	2	2.5Mbps
	3	5Mbps
	4	10Mbps


**OBSERVACIÓN:** Resetear la alimentación del variador para validar los cambios realizados en los parámetros Pr. 542, Pr. 543 y Pr. 544.

## ANEXO PARAMETROS COMPLEMENTARIOS DEL VARIADOR

### Parámetros Pr. 340 y Pr. 79

Pr. 340 Setting	Pr. 79 Setting	Operation Mode at Power on or Power Restoration	Operation Mode Switchover	
0 (initial value)	0 (initial value)	External operation mode	Switching among the external, PU, and NET operation mode is enabled *1	
	1	PU operation mode	PU operation mode fixed	
	2	External operation mode	Switching between the external and Net operation mode is enabled Switching to the PU operation mode is disallowed	
	3, 4	External/PU combined operation mode	Operation mode switching is disallowed	
	6	External operation mode	Switching among the external, PU, and NET operation mode is enabled while running.	
	7	X12 (MRS) signal ON..... external operation mode	Switching among the external, PU, and NET operation mode is enabled *1	
		X12 (MRS) signal OFF ... external operation mode	External operation mode fixed (Forcibly switched to external operation mode.)	
1	0	NET operation mode	Same as when Pr: 340 = "0"	
	1	PU operation mode		
	2	NET operation mode		
	3, 4	External/PU combined operation mode		
	6	NET operation mode		
	7	X12 (MRS) signal ON ... NET operation mode		
		X12 (MRS) signal OFF ... external operation mode		
10	0	NET operation mode	Switching between the PU and NET operation mode is enabled *2	
	1	PU operation mode	Same as when Pr: 340 = "0"	
	2	NET operation mode	NET operation mode fixed	
	3, 4	External/PU combined operation mode	Same as when Pr: 340 = "0"	
	6	NET operation mode	Switching between the PU and NET operation mode is enabled while running *2	
	7	External operation mode		Same as when Pr: 340 = "0"

\*1 Operation mode can not be directly changed between the PU operation mode and network operation mode.

\*2 Operation mode can be changed between the PU operation mode and network operation mode with  of the operation panel and X65 signal.

### Parámetro Pr. 550

Parameter Number	Name	Initial Value	Setting Range	Description
550	NET mode operation command source selection	9999	0	Selects the communication option as NET operation mode command source.
			2	Selects the PU connector as the NET operation mode command source.
			9999	Automatic communication option recognition Normally, PU connector is the command source. When a communication option is mounted, the communication option is the command source.

**Parámetros Pr. 338 y Pr. 339**

Operation Location Selection	Pr. 338 Communication operation command source		0: NET			1: External			Remarks	
	Pr. 339 Communication speed command source		0: NET	1: External	2: External	0: NET	1: External	2: External		
Fixed function (terminal-equivalent function)	Running frequency from communication		NET	—	NET	NET	—	NET		
	Terminal 2		—	External	—	—	External	—		
	Terminal 4		—	External		—	External			
Selective function Pr. 178 to Pr. 184 setting	0	RL	Low speed operation command/remote setting clear/stop-on contact selection 0	NET	External		NET	External		Pr. 59 = "0" (multi-speed) Pr. 59 = "1, 2" (remote) Pr. 270 = "1" (stop-on-contact)
	1	RM	Middle speed operation command/remote setting function	NET	External		NET	External		
	2	RH	High speed operation command/remote setting function	NET	External		NET	External		
	3	RT	Second function selection/stop-on contact selection 1	NET			External			Pr. 270 = "1" (stop-on-contact)
	4	AU	Current input selection	—	Combined		—	Combined		
	5	JOG	Jog operation selection	—			External			
	7	OH	External thermal relay input	External						
	8	REX	Fifteen speed selection	NET	External		NET	External		Pr. 59 = "0" (multi-speed)
	10	X10	Inverter operation enable signal	External						
	12	X12	PU operation external interlock	External						
	14	X14	PID control valid terminal	NET	External		NET	External		
	15	BRI	Brake opening completion signal	NET			External			
	16	X16	PU-external operation switchover	External						
	18	X18	V/F switching	NET			External			
			Output stop	Combined			External			Pr. 79 ≠ "7"
	24	MRS	PU operation interlock	External						Pr. 79 = "7" When the X12 signal is not assigned
	25	STOP	Start self-holding selection	—			External			
	60	STF	Forward rotation command	NET			External			
61	STR	Reverse rotation command	NET			External				
62	RES	Reset	External							
65	X65	PU/NET operation switchover	External							
66	X66	NET-external operation switching	External							
67	X67	Command source switchover	External							