



RSE
ROSS-SHIRE ENGINEERING

Example_Library

RSE - Control Systems

UK

9/12/2025 3:44 PM



Pump_Block [FB4]

Pump_Block Properties							
General							
Name	Pump_Block	Number	4	Type	FB	Language	LAD
Numbering	Automatic						
Information							
Title	Pump Block	Author		Comment	Function Block for Pumps	Family	
Version	0.1	User-defined ID					

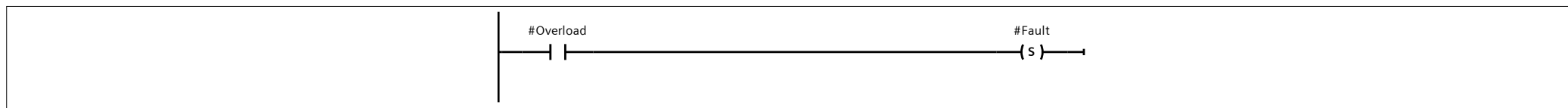
Name	Data type	Default value	Retain	Accessible from HMI/OPC UA/Web API	Writable from HMI/OPC UA/Web API	Visible in HMI engineering	Setpoint	Supervision	Comment
▼ Input									
Mode_Selection	Bool	false	Non-retain	True	True	True	False		Auto or Manual Mode Selected
Start_Manual	Bool	false	Non-retain	True	True	True	False		Starting by Manual
Stop_Manual	Bool	false	Non-retain	True	True	True	False		Stopping by Manual
Start_Auto	Bool	false	Non-retain	True	True	True	False		Starting by Auto
Stop_Auto	Bool	false	Non-retain	True	True	True	False		Stopping by Auto
Level_High	Bool	false	Non-retain	True	True	True	False		Level High Alarm
Level_Low	Bool	false	Non-retain	True	True	True	False		Level Low Alarm
Set_Time_Start	DInt	0	Non-retain	True	True	True	False		Setting Timer for Start Auto
Overload	Bool	false	Non-retain	True	True	True	False		Motor Overload
Reset_Fault	Bool	false	Non-retain	True	True	True	False		Reset Fault Command
▼ Output									
Pump_Run	Bool	false	Non-retain	True	True	True	False		Motor Started
Fault	Bool	false	Non-retain	True	True	True	False		Motor Fault
Running_Auto_Mode	Bool	false	Non-retain	True	True	True	False		Running Auto Mode Signal



Name	Data type	Default value	Retain	Accessible from HMI/OPC UA/Web API	Writ-able from HMI/OPC UA/ Web API	Visible in HMI engi-neering	Setpoint	Supervi-sion	Comment
InOut									
▼ Static									
▼ Timer_Start	IEC_TIMER		Non-retain	True	True	True	False		Starting Timer for Auto Mode
PT	Time	T#0ms	Non-retain	True	True	True	False		
ET	Time	T#0ms	Non-retain	True	False	True	False		
IN	Bool	false	Non-retain	True	True	True	False		
Q	Bool	false	Non-retain	True	False	True	False		
Start_Auto_Activated	Bool	false	Non-retain	True	True	True	False		Starting Auto Activated
▼ Temp									
Timer_Start_Output	Bool								Output of Timer Started
Constant									

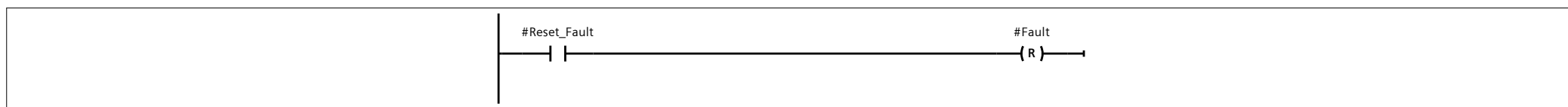
Network 1: Motor overload Interlocking

If Overloaded trigger a fault



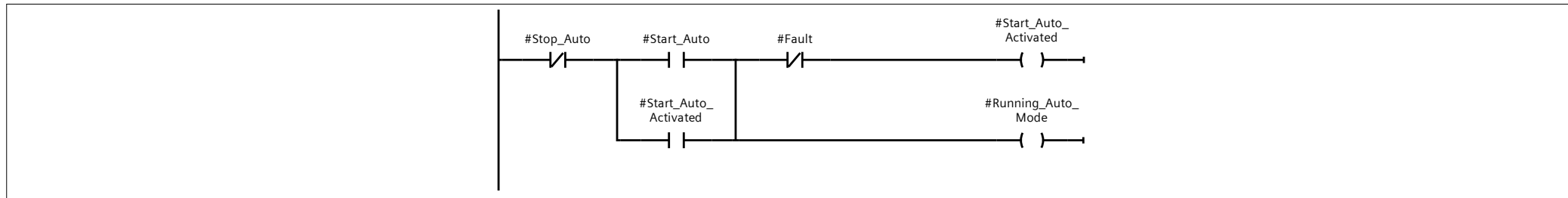
Network 2: Reset Command Fault

Reset the Fault



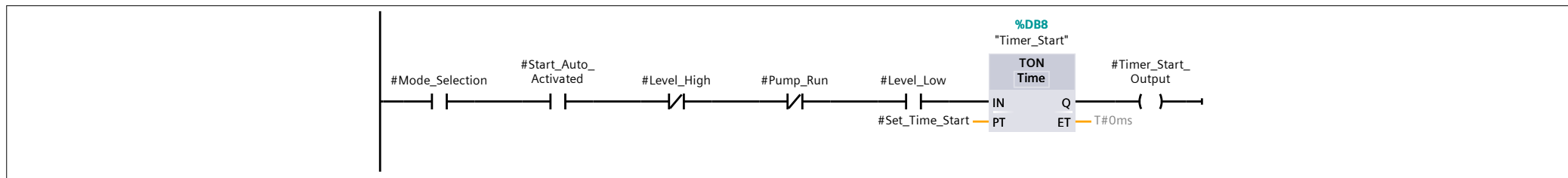
Network 3: Command Start - Auto Mode

Latching Auto Start upon Command



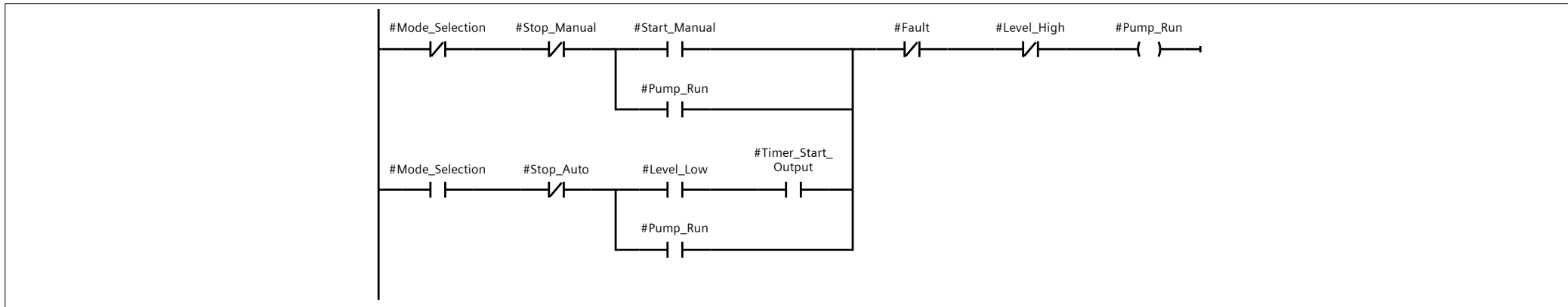
Network 4: Auto Started Activated

Runs when Auto Started



Network 5: Motor Control

Turns Pump on / off



Network 6: Spare Network