



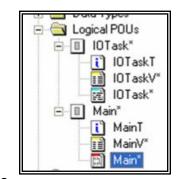
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eLM.MotionWorks.01.ProIntro (IEC Pro Intro eLM)

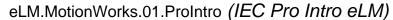


General Info

- 1. Can MotionWorks IEC Express and MotionWorks IEC Pro both be installed in one PC at the same time?
 - A. Yes
 - B. No
- 2. Customer "X" already has a license for MotionWorks IEC Express. Can the customer upgrade to the Pro version and use the same license?
 - A. Yes
 - B. No
- 3. When *Express* projects are opened in *Pro*, the project is converted to the *Pro* format. How can the project be opened again with *Express*?
 - A. Express converts the Pro project back to Express format.
 - B. Open a copy of the *Express* project that was saved before converting to the *Proformat*.
 - C. Click "Undo"
- 4. You are trying to copy a POU from *Express* to *Pro*, but it doesn't seem to be working. In fact, you can't edit anything in *Pro*. What is likely to be the problem?
 - A. The unlicensed version of Pro prevents editing
 - B. POUs cannot be copied from Express to Pro, only from Pro to Express.
 - C. Only the instructions within a POU can be copied, not the entire POU
 - D. Pro was opened after Express and therefore is "Restricted"
- 5. What is the "MainV" item in the project tree, displayed in the image to the right?
 - A. Task Definition for the "Main" POU
 - B. Local Variables for the "Main" POU
 - C. "Main" POU code page
 - D. "Main" POU information
 - E. Subfolder for grouping POUs
 - F. "Main" Global Variables list



- 6. Where is the ladder contact width changed in *Pro*?
 - A. Extras Options menu
 - B. Tools Options menu
 - C. Edit Options menu
- 7. What is the requirement for a project to be used in Project Comparison?
 - A. Project must be zipped ahead of time
 - B. Project must be opened from within windows explorer
 - C. Project must complete a successful MAKE
 - D. Both projects must be opened simultaneously in separate instances of Pro

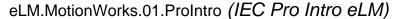




- 8. After running Project Comparison, What tab of the Project Comparison Window is used to display differences in variables and code?
 - A. Worksheets
 - B. Properties
 - C. Build
 - D. Errors
 - E. Infos
 - F. Compare Variables
 - G. Compare Code

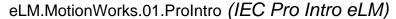
Multi-Task

- 9. How many tasks can run in the MP2300Siec when using *MotionWorks IEC Pro?*
 - A. 1
 - B. 4
 - C. 8
 - D. 16
 - E. 31
 - F. 32
- 10. To insert a new task, where do you right-click?
 - A. The "Task" folder
 - B. The "Logical POU" folder
 - C. The "Resource" folder
 - D. The "Task: CYCLIC" task
 - E. The "New Task" folder
- 11. When creating a new program POU in *Pro*, what task does the POU automatically run in by default?
 - A. "Default" task
 - B. "Main" task
 - C. "Task" task
 - D. "IOTask" task
 - E. None of the above





- 12. What "task type" is selected when the task should execute one time when the controller turns on?
 - A. Startup
 - B. Initial
 - C. Warm Start
 - D. Cold Start
 - E. SPG
 - F. Default
 - G. Boot
 - H. Cyclic
 - I. Event
 - J. System
- 13. How are program instances moved from one task to another (with the resource dialogue window closed)?
 - A. Click and drag the program instance from one task to another
 - B. The program instance must be deleted from one task and re-created in another
 - C. A program instance may not be moved from one task to another
 - D. Move one task as a sub-task of another
- 14. If the Mechatrolink-II communication cycle is set to 3 ms, what is the minimum "interval" for a cyclic task?
 - A. 62.5 microseconds
 - B. 0.5 ms
 - C. 1 ms
 - D. 1.5 ms
 - E. 2 ms
 - F. 3 ms
 - G. 4 ms
 - H. 5 ms
 - 6 ms
 - J. No minimum
- 15. Cyclic tasks named "TaskA", "TaskB", and "TaskC" are assigned intervals of 4, 2, and 2, respectively. They are also assigned priorities of 10, 3, and 2, respectively. Which task is executed first?
 - A. TaskA
 - B. TaskB
 - C. TaskC
- 16. If a cyclic task has the Interval set to 2 ms and priority set to 4, what is the recommended setting for Watchdog Time?
 - A. 1 ms
 - B. 2 ms
 - C. 4 ms

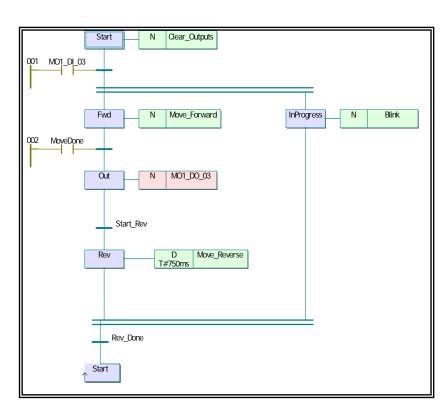




- 17. Where in *MotionWorks IEC Pro* is I/O assigned to a task?
 - A. In the Hardware Configuration
 - B. In the Task folder
 - C. In the Physical Hardware folder
- 18. Which tasks may be used for I/O assignment?
 - A. "IOTask" task only
 - B. "Default" task only
 - C. "Task" task only
 - D. "IOTask" or "Default" task
 - E. Any available task
 - F. None of the above

Sequential Function Chart (SFC)

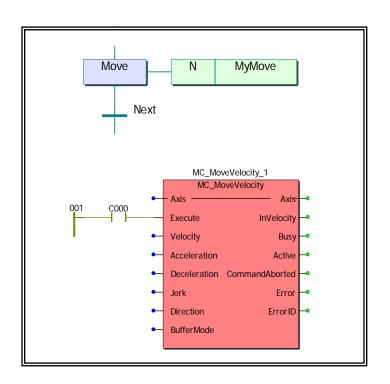
- 19. Under what circumstances is it recommended to use the SFC programming language?
 - A. When the machine follows a sequence of operations
 - B. When the machine operates in different "states"
 - C. When the programmer prefers using the SFC language
 - D. When the program will be used as a troubleshooting tool
 - E. A, B, C
 - F. B, C, D
 - G. C, D, A
 - H. D, A, B
- 20. Which is/are classified as a "Step" in the figure to the right?
 - A. Move Forward
 - B. Out
 - C. Rev_Done
 - D. A, B
 - E. B, C
 - F. A. B. C
- 21. Which is/are classified as a "Detail-type" transition in the figure to the right?
 - A. MoveDone
 - B. InProgress
 - C. D T#750ms
 - D. Rev Done
 - E. Blink



eLM.MotionWorks.01.ProIntro (IEC Pro Intro eLM)



- 22. What does the "D" represent in the figure above?
 - A. Detail-type transition
 - B. Delay before the action
 - C. Delay before the next step
 - D. Delay before the next transition
 - E. DINT data type returned
- 23. The MC_MoveVelocity function block is part of the **action** code page shown to the right. What is the correct entry for the C000 contact so that the Execute input will be TRUE while the step is active
 - A. TRUE
 - B. FALSE
 - C. Any BOOL variable
 - D. N
 - E. Fwd
 - F. Step
 - G. Move
 - H. MyMove
 - I. Next
 - J. N.X
 - K. Fwd.X
 - L. Step.X
 - M. Move.X
 - N. MyMove.X
 - O. Next.X



- 24. What datatypes are valid for variable-type actions?
 - A. BOOL
 - B. INT
 - C. DINT
 - D. LREAL
 - E. All of the above





- 25. The ladder diagram is part of the **transition** code page shown on the right. What is the correct entry for the C004 coil so that the transition will be TRUE when that coil is TRUE?
 - A. TRUE
 - B. FALSE
 - C. Any BOOL variable
 - D. N
 - E. Fwd
 - F. Step
 - G. Move
 - H. MyMove
 - I. Next
 - J. N.X
 - K. Fwd.X
 - L. Step.X
 - M. Move.X
 - N. MyMove.X
 - O. Next.X

