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| ation Portal | |
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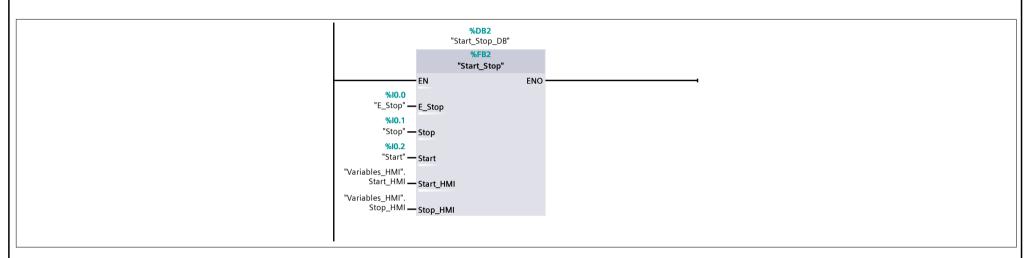
Program blocks

Main [OB1]

| Main Properties | | | | | | | |
|-----------------|-------------------------------|-----------------|---|---------|----|----------|-----|
| General | | | | | | | |
| Name | Main | Number | 1 | Туре | ОВ | Language | LAD |
| Numbering | | | | | | | |
| Information | | | | | | | |
| Title | "Main Program Sweep (Cy-cle)" | Author | | Comment | | Family | |
| Version | 0.1 | User-defined ID | | | | | |

| Name | Data type | Default value |
|--------------|-----------|---------------|
| ▼ Input | | |
| Initial_Call | Bool | |
| Remanence | Bool | |
| Temp | | |
| Constant | | |

Network 1: Start stop block



Network 2: Increase and decrease speed block

```
%DB3
                               "Inc_Dec_Speed_
DB"
                                     %FB1
                               "Inc_Dec_Speed"
                                                     ENO
            %10.4
                                                              %Q0.0
"Increase\_Speed" -- Increase
                                                 Speed_1 → "Speed_1"
                                                %Q0.1
Speed_2 → "Speed_2"
            %10.3
     "Decrease_
Speed" — Decrease
                                                              %Q0.2
"Variables_HMI".
Increase_HMI — Increase_HMI
                                                %Q0.3
Speed_4 → "Speed_4"
"Variables_HMI".
Decrease_HMI — Decrease_HMI
                                           "Variables_HMI".

Speed_1_HMI — Speed_1_HMI
                                           "Variables_HMI".

Speed_2_HMI — Speed_2_HMI
                                           "Variables_HMI".

Speed_3_HMI — Speed_3_HMI
                                           "Variables_HMI".

Speed_4_HMI — Speed_4_HMI
```

| neral me Start_Stop_DB Number 2 Type DB Language DB mbering Automatic ormation | art_Stop_DB Properties | | | | | | | |
|--|-----------------------------|---|--------|-----|----------|-------------|-------------|---------|
| Multiple | eneral | | | | - | | II . | 0.0 |
| | | | Number | 2 | Туре | DB | Language | DB |
| Note Mather Mat | formation | C | | | | | | |
| No. | tle | | Author | | Comment | | Family | |
| Data type Start value Retain Input Stop Bool False False Stop Bool false False Start Bool false False Start HMI Bool false False Stop_HMI Bool False False Stop_HMI Bool False False Stop_HMI Bool False False Stop_HMI Bool False False Output False False Output False False False Output False False False | | | | | | | | |
| E_Stop Bool false False Stop Bool false False Stop Bool false False Start Bool false False Start_HMI Bool false False Stop_HMI Bool false False False Stop_HMI False False False Stop_HMI False False False False Stop_HMI False F | 10 | | | Dat | a tyne | Start value | | Retain |
| E_Stop Bool false False Stop Bool false False Start Bool false False Start_HMI Bool false False Stop_HMI Bool false False Stop_HMI Bool false False False Stop_HMI False Fal | | | | Dat | u iype | Start value | | Retaill |
| Stop Stor Start Bool false False Start_HMI Stop_HMI Bool false Fal | | | | Boo | ol | false | | False |
| StartBoolfalseFalseStart_HMIBoolfalseFalseStop_HMIBoolfalseFalseOutputInOutInoutInoutInout | | | | | | | | |
| Start_HMI Bool false False Stop_HMI Bool false False output Out | | | | | | | | |
| Stop_HMIBoolfalseutput | | | | | | | | |
| Output nOut | | | | | | | | |
| Out Control Co | | | | | | | | |
| atic Exercises E | Stop_HMI | | | | <u> </u> | | | |
| | Stop_HMI Dutput nOut | | | | | | | |
| | Stop_HMI Output InOut | | | | | | | |
| | Stop_HMI Output nOut | | | | | | | |

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Program blocks / DB

Inc_Dec_Speed_DB [DB3]

| Inc_Dec_Speed_DB Properties | | | | | | | |
|-----------------------------|------------------|-----------------|--------------|---------|----|----------|----|
| General | | | | | | | |
| Name | Inc_Dec_Speed_DB | Number | 3 | Туре | DB | Language | DB |
| Numbering | Automatic | | | | | | |
| Information | | | | | | | |
| Title | | Author | Stiven Perez | Comment | | Family | |
| Version | 0.1 | User-defined ID | | | | | |

| Name | Data type | Start value | Retain |
|-----------------|-----------|-------------|--------|
| ▼ Input | | | |
| Increase | Bool | false | False |
| Decrease | Bool | false | False |
| Increase_HMI | Bool | false | False |
| Decrease_HMI | Bool | false | False |
| ▼ Output | | | |
| Speed_1 | Bool | false | False |
| Speed_2 | Bool | false | False |
| Speed_3 | Bool | false | False |
| Speed_4 | Bool | false | False |
| Speed_1_HMI | Bool | false | False |
| Speed_2_HMI | Bool | false | False |
| Speed_3_HMI | Bool | false | False |
| Speed_4_HMI | Bool | false | False |
| InOut | | | |
| Static | | | |

| Totally Integrated Automation Portal | | |
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| Drogram blocks | / DB | |

Program blocks / DB

Data [DB1]

| Data Properties | | | | | | | |
|------------------------|-----------------------|-----------------|--------------|---------|-----------------------|----------|----|
| General | | | | | | | |
| Name | Data | Number | 1 | Туре | DB | Language | DB |
| Numbering | Automatic | | | | | | |
| Information | | | | | | | |
| Title | Data for Set Memories | Author | Stiven Perez | Comment | Data for Set Memories | Family | |
| Version | 0.1 | User-defined ID | | | | | |

| Name | Data type | Start value | Retain |
|-----------------|-----------|-------------|--------|
| ▼ Static | | | |
| Start_Stop | Bool | false | False |
| P_Inc | Bool | false | False |
| N_Dec | Bool | false | False |
| QTime_1 | Bool | false | False |
| QTime_2 | Bool | false | False |
| QTime_3 | Bool | false | False |
| QTime_4 | Bool | false | False |
| CV_Speed | Int | 0 | False |
| Reset_Counter | Bool | false | False |

| Totally Integrated Automation Portal | | |
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| Program blocks | / DB | |
| Variables_HMI [DI | 4] | |
| Variables HMI Properties | | |

| Variables_riivi | rroperties | | | | | | |
|-----------------|-------------------|-----------------|--------------|---------|-------------|----------|--------|
| General | | | | | | | |
| Name | Variables_HMI | Number | 4 | Туре | DB | Language | DB |
| Numbering | Automatic | | | | | | : |
| Information | | | | | | | |
| Title | Variables for HMI | Author | Stiven Perez | Comment | | Family | |
| Version | 0.1 | User-defined ID | | | | | |
| | | | _ | | - | | - |
| Name | | | Data type | | Start value | | Retain |
| ▼ Static | | | | | | | |
| Start HM | MI | | Bool | | false | | False |

| Name | Data type | Start value | Retain |
|-----------------|-----------|-------------|--------|
| ▼ Static | | | |
| Start_HMI | Bool | false | False |
| Stop_HMI | Bool | false | False |
| Increase_HMI | Bool | false | False |
| Decrease_HMI | Bool | false | False |
| Speed_1_HMI | Bool | false | False |
| Speed_2_HMI | Bool | false | False |
| Speed_3_HMI | Bool | false | False |
| Speed_4_HMI | Bool | false | False |

| | grated Portal | | | | | | | |
|--------------------|--------------------|-----------------|-----------------------|----------------|---|--------|--------------------------|-----|
| rogram | blocks / FB | | | | | | | • |
| tart_Stop | | | | | | | | |
| art_Stop Prop | | | | | | | | |
| eneral ame | Start_Stop | Number | 2 | Туре | FB | Lang | uage | LAD |
| umbering | Automatic | | - | -71- | - | , g | 9- | |
| nformation itle | Start_Stop_Program | Author | | Comment | Conditions to Start or stop | Fami | lv | |
| | | | | Comment | all process | raiiii | ıy | |
| ersion | 0.1 | User-defined ID | | | | | | |
| ame | | | Data type | Default value | | | Retain | |
| r Input | | | | | | | | |
| E_Stop Stop | | | Bool Bool | false false | | | Non-retain Non-retain | |
| Start | | | Bool | false | | | Non-retain | |
| Start_HM | ЛΙ | | Bool | false | | | Non-retain | |
| Stop_HM | 11 | | Bool | false | | | Non-retain | |
| Output InOut | | | | | | | | |
| Static | | | | | | | | |
| Temp | | | | | | | | |
| Constant | | | | | | | | |
| etwork 1: | Start Process | | | | | | | |
| | | | | | | | | |
| art program | | | | | | | | |
| | | | #Start | | "Data".Start_Stop | | | |
| | | | | | (s) | | | |
| | | # | Start_HMI | | | | | |
| | | | 11 | | | | | |
| | | | #Stop #Stop Hotop_HMI | | "Data".Start_Stop (R) "Data".Reset_ Counter | | | |
| | | | - i | | | | | |
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| Totally Integrated |
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Program blocks / FB

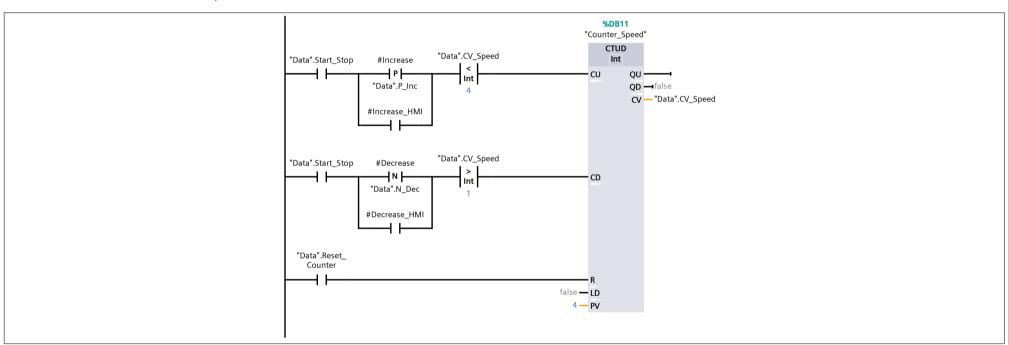
Inc_Dec_Speed [FB1]

| Inc_Dec_Speed | Properties | | | | | | |
|---------------|---|-----------------|--------------|---------|---|----------|-----|
| General | | | | | | | |
| Name | Inc_Dec_Speed | Number | 1 | Type | FB | Language | LAD |
| Numbering | Automatic | | | | | | |
| Information | | | | | | | |
| Title | Conditions to Increase and Decrease Speed | Author | Stiven Perez | Comment | Conditions to select the respective speed | Family | |
| Version | 0.1 | User-defined ID | | | | | |

| Name | Data type | Default value | Retain |
|-----------------|-----------|---------------|------------|
| ▼ Input | | | |
| Increase | Bool | false | Non-retain |
| Decrease | Bool | false | Non-retain |
| Increase_HMI | Bool | false | Non-retain |
| Decrease_HMI | Bool | false | Non-retain |
| ▼ Output | | | |
| Speed_1 | Bool | false | Non-retain |
| Speed_2 | Bool | false | Non-retain |
| Speed_3 | Bool | false | Non-retain |
| Speed_4 | Bool | false | Non-retain |
| Speed_1_HMI | Bool | false | Non-retain |
| Speed_2_HMI | Bool | false | Non-retain |
| Speed_3_HMI | Bool | false | Non-retain |
| Speed_4_HMI | Bool | false | Non-retain |
| InOut | | | |
| Static | | | |
| Temp | | | |
| Constant | | | |

Network 1: Increase Speed

Conditions to increase or decrease speed



Network 2: Speeds Selection

Conditions to select the respective speed

| Timer_Speed1 | Number N | er_Speed | 1 Properties | | | | | | |
|--|--|----------|--------------|-------------|----------------|---------|-------------|----------|--------|
| Author Simatic Comment Family IEC Comment Start value Retain Start value False IN False Fa | Multiple Multiple | | | | | | | | |
| Author Simatic Comment Family IEC | permation Author Simatic Comment Family IEC sion 1.0 User-defined ID IEC_TMR me Start value Ret Static Time T#0ms Fals ET Time T#0ms Fals IN Bool false Fals | | | Number | 6 | Type | DB | Language | DB |
| Author Simatic User-defined ID IEC_TMR | Author Simatic Comment Family IEC | pering | Automatic | | | | | | |
| No | No | ation | | | -1 | | | - ·· | |
| Data type Start value Retain Time T#0ms False Time T#0ms False Bool false False | Data type Start value Ret Time T#0ms Fals Time T#0ms Fals Bool false Fals | | 1.0 | | | Comment | | Family | IEC |
| rtic Time T#0ms False ET Time T#0ms T#0ms False IN Bool false | Time T#0ms Fals ET Time T#0ms Fals Fals IN Bool false | n | 1.0 | User-detine | a ID IEC_TMK | | | | |
| PT Time T#0ms False ET Time T#0ms False IN Bool false False | PT Time T#0ms Fals ET Time T#0ms Fals IN Bool false | | | | Data type | | Start value | | Retain |
| ETTimeT#0msFalseINBoolfalseFalse | ETTimeT#0msFalsINBoolfalseFals | atic | | | | | | | |
| ETTimeT#0msFalseINBoolfalseFalse | ETTimeT#0msFalsINBoolfalseFals | PT | | | Time | - | T#0ms | | False |
| | | | | | Time | - | T#0ms | | False |
| Q Bool false False | Q Bool false Fals | IN | | | Bool | 1 | false | | False |
| | | Q | | | Bool | • | false | | False |
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| real Automatic Author Simatic User-defined ID IEC_TMR Data type Start value Start value | Number Family Retail R | Imer_Speed 2 | ner_Sp | 2 Properties | | | | | | |
|--|--|---|---------|--------------|--------------|-----------|---------|-------------|----------|--------|
| Authoration Author Simatic Comment Family IEC Sion 1.0 Data type Start value Retain False | Inbering Automatic Important Comment Author Simatic Comment Family IEC Internation I.0 Data type Start value Retain Internation Interna | Jumbering Importation Author Simatic Importation Comment Family IEC Jersion 1.0 User-defined ID IEC_TMR Data type Start value Retained Start value Start value Retained Start value Start value Retained Start value | | | | | | | | |
| Author Simatic User-defined ID IEC_TMR Start value Family IEC | Author Simatic User-defined ID IEC_TMR Start value Family IEC | Itle Author Simatic Comment Family IEC Version 1.0 Data type Start value Reta ✓ Static PT Time T#0ms False False False False False False False False False | | | Number | 7 | Туре | DB | Language | DB |
| Author Simatic Comment Family IEC Signation 1.0 Simatic User-defined ID IEC_TMR Details Time T#0ms False False IN False False Family IEC Scanner Family IEC Start value Family IEC S | Author Simatic Comment Family IEC Sign 1.0 User-defined ID IEC_TMR Data type Start value Retain Static Time T#0ms False IN Family IEC Family IEC Family IEC Family IEC Family IEC Retain False False False False False | Author Simatic Comment Family IEC Province Simatic User-defined ID IEC_TMR Data type Start value Reta Start Value T#0ms False ET Time T#0ms False Bool False Family IEC Reta Reta False False False False False False | nbering | Automatic | | | | | | |
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| Data type Start value Retain Static Time T#0ms False ET Time T#0ms False IN Bool false False | Data type Start value Retain Static Time T#0ms False ET Time T#0ms False IN Bool false False | meData typeStart valueRetain the station of the stati | | 1.0 | | | Comment | | Family | IEC |
| PT Time T#0ms False ET IN Bool false | FT Time T#0ms False ET Time T#0ms False IN Bool false False | StaticImage: Control of the control of th | SION | 1.0 | User-detined | IEC_IMK | | | | |
| PT Time T#0ms False ET Time T#0ms T#0ms False IN Bool false False | PT Time T#0ms False ET Time T#0ms False IN Bool false False | PT Time T#0ms False ET Time T#0ms False IN Bool false | | | | Data type | | Start value | | Retain |
| ET Time T#0ms False IN Bool false False | ETTimeT#0msFalseINBoolfalseFalse | ET Time T#0ms False IN Bool false False | Static | | | | | | | |
| IN Bool false False | IN Bool false False | IN Bool false False | PT | | | Time | | T#0ms | | False |
| | | | ET | | | Time | | T#0ms | | False |
| Q Bool false False | Q Bool false False | Q Bool false False | IN | | | Bool | | false | | False |
| | | | Q | | | Bool | | false | | False |
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| Timer_Speed3 | Timer_Speed3 | mer_Speed: | Properties Properties | | | | | |
|---|--|------------|-----------------------|--------------|-----------|----------------|----------|--------|
| Automatic Author Simatic Comment Family IEC In In In In In In In In In | Author Simatic Comment Family IEC | eneral | | | | | | |
| Author Simatic Comment Family IEC | Author Simatic Comment Family IEC | me | | Number | 8 | Type DB | Language | DB |
| Author Simatic Comment Family IEC IN | Author Simatic Comment Comment Family IEC | bering | Automatic | | | | | |
| Data type Start value Retain | No. | nation | | | | | 11- | |
| Data type Start value Retain T Time T#0ms False T Time T#0ms False T Bool false False | Data type Start value Retain T Time T#0ms False T Time T#0ms False T Bool false False | | 1.0 | | | Comment | Family | IEC |
| tic Time T#0ms False ET Time T#0ms T#0ms False IN Bool false False | tic Time T#0ms False ET Time T#0ms T#0ms False IN Bool false False | n | 1.0 | User-defined | IEC_IMK | | | |
| PT Time T#0ms False ET Time T#0ms T#0ms False IN Bool false False | PT Time T#0ms False ET Time T#0ms T#0ms False IN False | | | | Data type | Start value | | Retain |
| ET Time T#0ms False IN Bool false False | ETTimeT#0msFalseINBoolfalseFalse | atic | | | | | | |
| ET Time T#0ms False IN Bool false False | ETTimeT#0msFalseINBoolfalseFalse | PT | | | Time | T#0ms | | False |
| | | ET | | | Time | T#0ms | | False |
| Q Bool false False | Q Bool false False | IN | | | Bool | false | | False |
| | | Q | | | Bool | false | | False |
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| Timer_Speed4 Number 9 Type DB Language DB Indication Author Simatic Comment Family IEC | Automatic Indication Author Simatic Comment Family IEC I.0 User-defined ID IEC_TMR Data type Start value Retain Time T#0ms False False False False False False False | Multiple | Family IEC Reta False False False |
|--|--|---|-------------------------------------|
| Author Simatic Comment Family IEC | Author Simatic Comment Family IEC 1.0 | Name Name | Reta False False False |
| Author Simatic Comment Family IEC 1.0 User-defined ID IEC_TMR Start value Retain Comment Family IEC Comment Family I | Author Simatic Comment Family IEC | Author Simatic Comment Family IEC | Reta False False False |
| 1.0 User-defined ID IEC_TMR | 1.0 User-defined ID IEC_TMR Start value Retain | No | Reta False False False |
| Data type Start value Retain Time T#0ms False Time T#0ms False Time Bool false False | Data type Start value Retain Time T#0ms False Time T#0ms False Bool false False | Data type Start value Itic PT Time T#0ms ET Time T#0ms IN Bool false | False False False |
| Time T#0ms False | Time T#0ms False Time T#0ms False Bool false False | C Time T#0ms T Time T#0ms T Time T#0ms I Bool false | False False False |
| Time T#0ms False Bool false False | Time T#0ms False Bool false False | Time T#0ms Bool false | False False |
| Time T#0ms False Bool false False | Time T#0ms False Bool false False | Time T#0ms Bool false | False False |
| Time T#0ms False I Bool false False | Time T#0ms False Bool false False | Time T#0ms N Bool false | False |
| Bool false False | Bool false False | N Bool false | False |
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| Totally Integ Automation | | | | | | | | |
|---------------------------------------|--|--------------------|-------------|------|----|----------|----|--|
| Program | blocks / Syston | oo lalla alsa / Du | | | | | | |
| | _ | m blocks / Pr | ogram resou | rces | | | | |
| Counter_S | peed [DB11] | m blocks / Pr | ogram resou | rces | | | | |
| | peed [DB11] | m blocks / Pr | ogram resou | rces | | | | |
| Counter_Speed General | peed [DB11] | Number | ogram resou | Туре | DB | Language | DB | |
| Counter_S Counter_Speed General Name | peed [DB11] I Properties | | | | DB | Language | DB | |
| Counter_S | peed [DB11] Properties Counter_Speed | | | | DB | Language | DB | |

| Title | | Author | Simatic | Comment | Family | IEC |
|-----------------|-----|-----------------|-----------|-------------|--------|--------|
| Version | 1.0 | User-defined ID | CNTR | | | |
| | | | | | | |
| Name | | | Data type | Start value | | Retain |
| ▼ Static | | | | | | |
| CU | | | Bool | false | | True |
| CD | | | Bool | false | | True |
| R | | | Bool | false | | True |
| LD | | | Bool | false | | True |
| QU | | | Bool | false | | True |
| QD | | | Bool | false | | True |
| PV | | | Int | 0 | | True |
| CV | | | Int | 0 | | True |
| | | | | | | |