



**Mitsubishi Electric SELECTION software (MELSELECT)
for Mitsubishi Electric low-voltage circuit breaker**

User manual

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1. 1. Introduction

This user manual explains how to use Mitsubishi ELectric SELEctIon software, MELSELECT (Ver.1.0.0) for low-voltage circuit breaker.

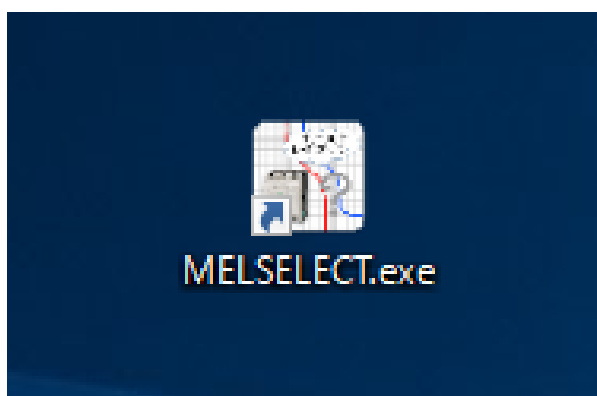
1.1 System requirements

| Item | Recommended requirements |
|-----------------------------|-------------------------------------|
| Operating system (OS) | Microsoft Windows10 (32/64 bit) Pro |
| Microsoft .NET Framework | Microsoft .NET Framework 4.6 |
| Microsoft Word/Excel/Access | Microsoft Word 2013 |

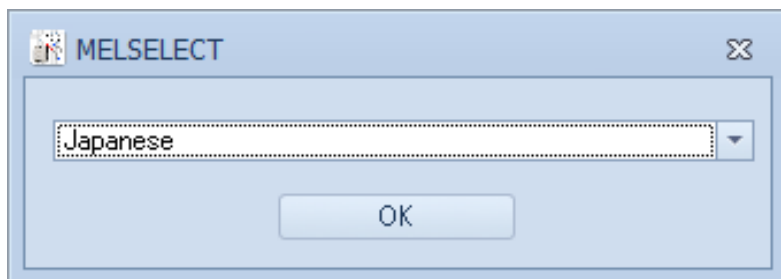
Microsoft, Windows, NET Framework and Word are registered trademarks of Microsoft Corporation in the United States and other countries.

1.2 Start MELSELECT

- (1) Download MELSELCT and decompress the compressed folder.
- (2) Double click [MELSELECT.exe] in the downloaded folder and open it.



- (3) Select language (Japanese/English/Chinese). You will be asked to select language for the first time only.



2. Create single-line diagram

2.1 Create project

- (1) Click [Create new project] button.
- (2) Enter "Project name", input "Comment" and select "Country/Region" in Project setting. If necessary, set "Frequency" and "Priority of model selection (Adjustable type or Fixed type)".
- (3) Click the created project to open main window.

① Click [Create new project]

② Input project name, comment, country/region

③ Enter project information frequency, Priority (Fixed/Adjustable) LV cable condition, Busbar condition

④ Click [OK] button

⑤ Click the created project and Click [Open the project]

The screenshot shows the MELSELECT software interface. The 'Project setting' dialog box is open, displaying the following fields and values:

- Project name: Sample project
- Comment: (empty)
- Country / Region: Singapore
- Electrical network: Frequency 50 Hz
- Model selection: Priority of model selection Adjustable type
- LV cable: Maximum permissible cable cross section 300 mm², Cable ambient temperature 30 °C, Cable maximum permissible voltage drop default value 2 %
- Busbar: Busbar ambient temperature 35 °C, Busbar max. voltage drop 2 %

The main window shows a table with the following data:

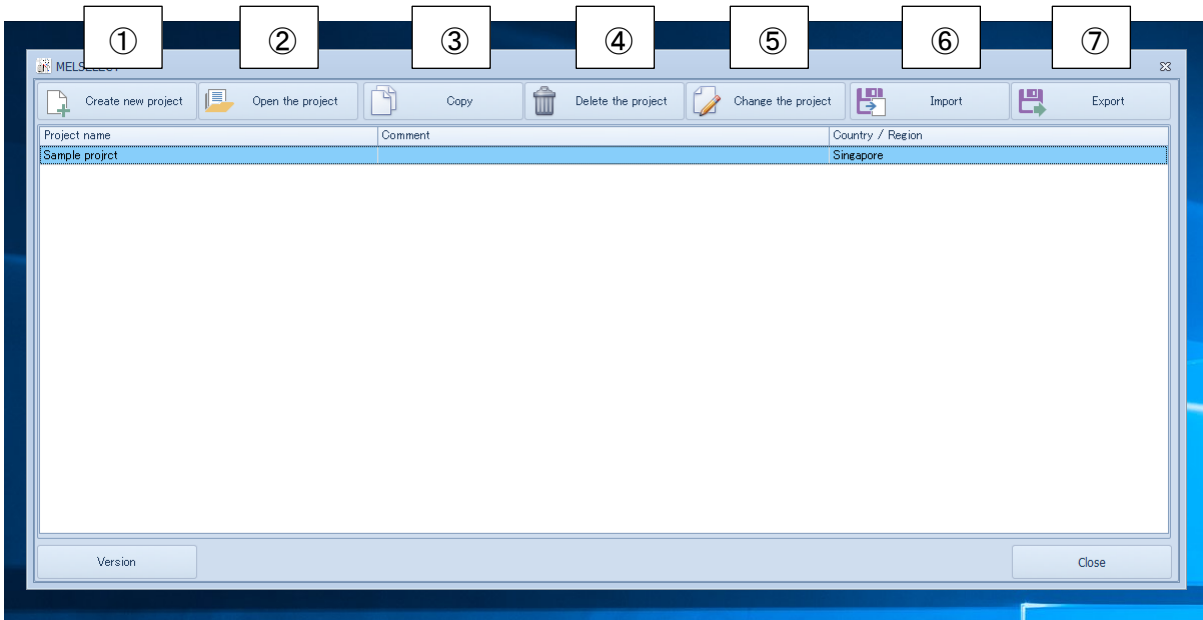
| Project name | Comment | Country / Region |
|----------------|---------|------------------|
| Sample project | | Singapore |

<Project management>

(4) Following operations are available for the project.

Table 1. Project management function list

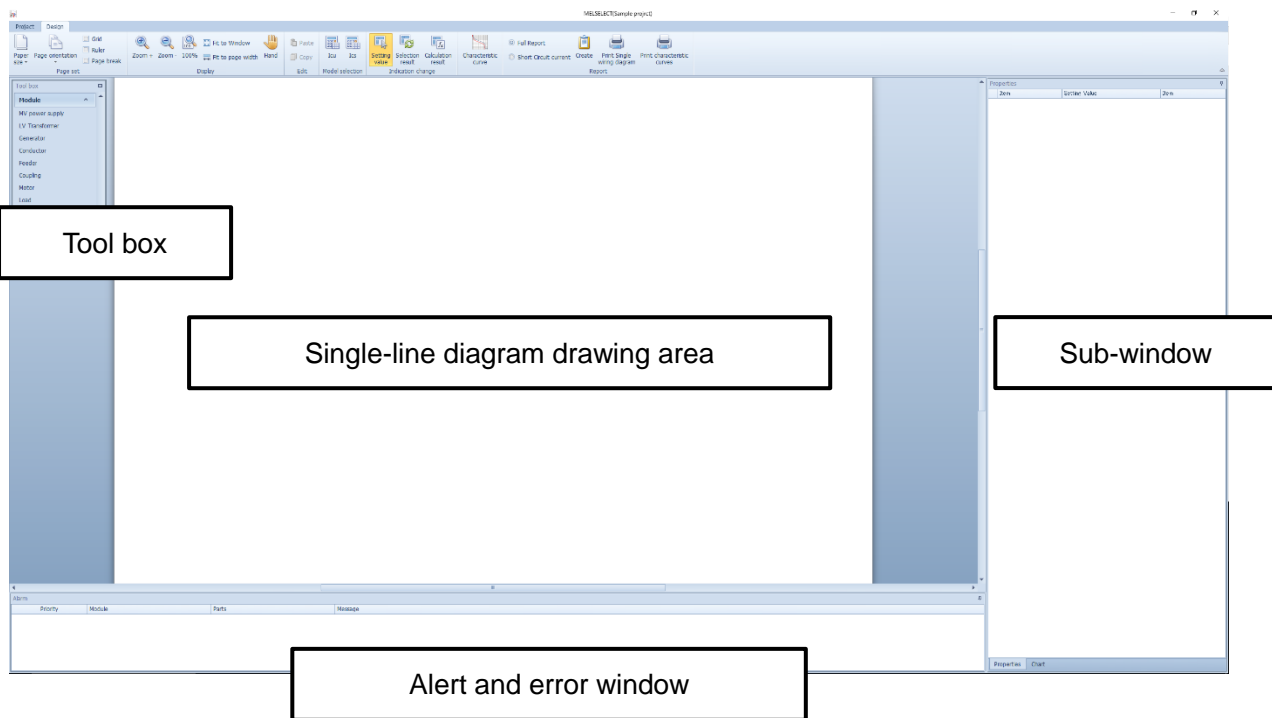
| No | Item | Function |
|----|--------------------|--|
| ① | Create new project | To create new project |
| ② | Open the project | To open and show single-line diagram of selected project |
| ③ | Copy | To copy selected project and create other project name |
| ④ | Delete the project | To delete selected project |
| ⑤ | Change the project | To open project setting window and change the setting of selected project (Project information and Report information are changeable) |
| ⑥ | Import | To import project file from other folder |
| ⑦ | Export | To export selected project to other folder |



2.2 Draw single-line diagram

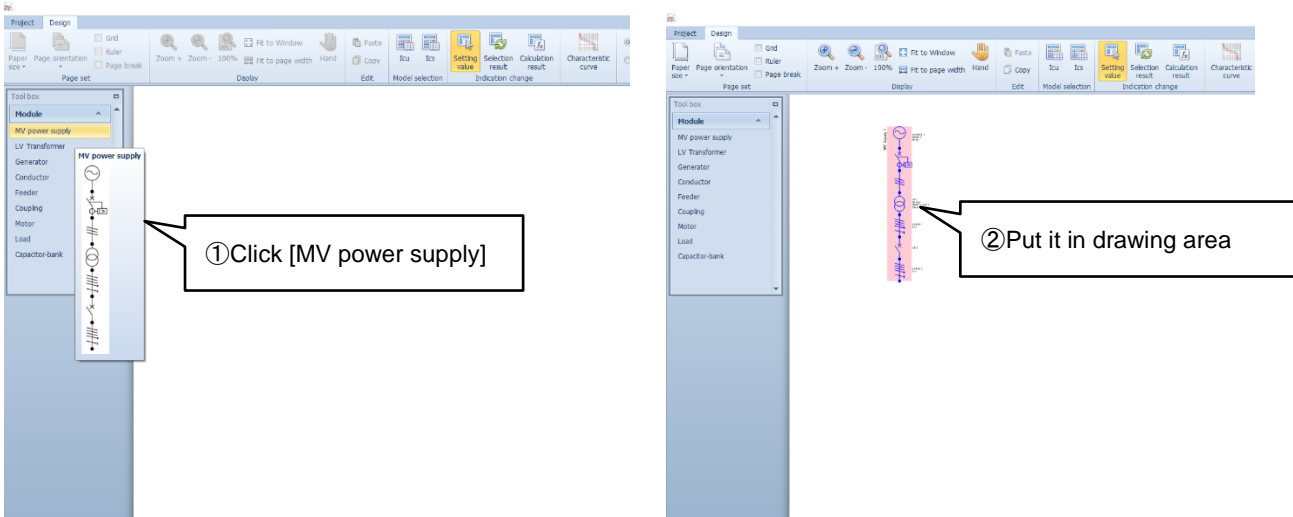
(1) Select each module from Tool box on left side and put them to draw single-line diagram.

It is able to put up to 200 modules in single-line diagram drawing area.

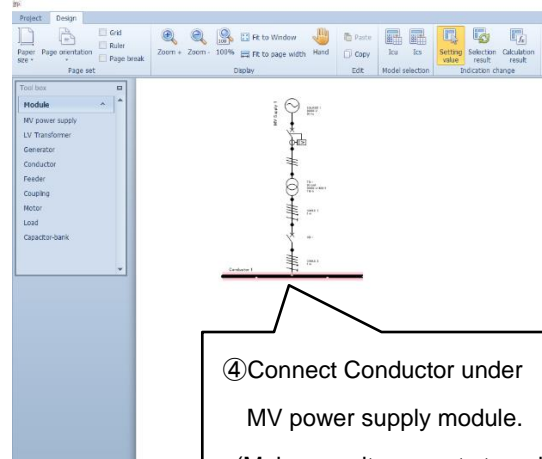
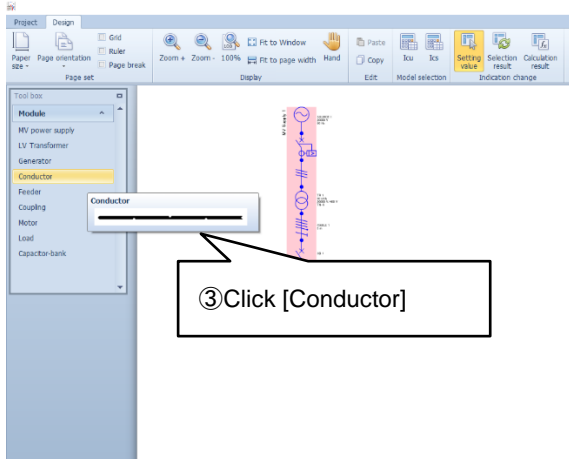


(ex: In the case of creating single-line diagram including general load and motor load)

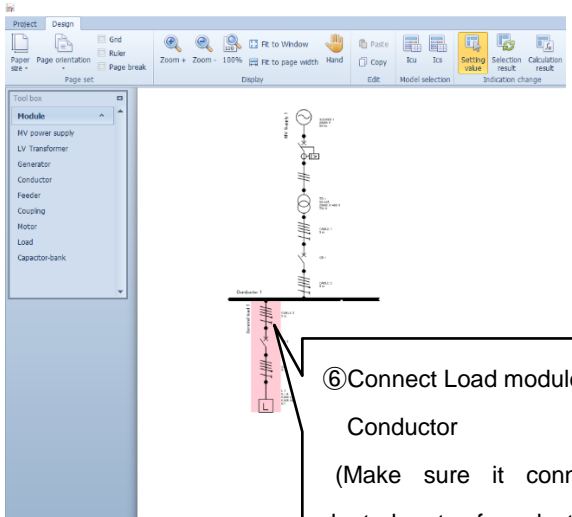
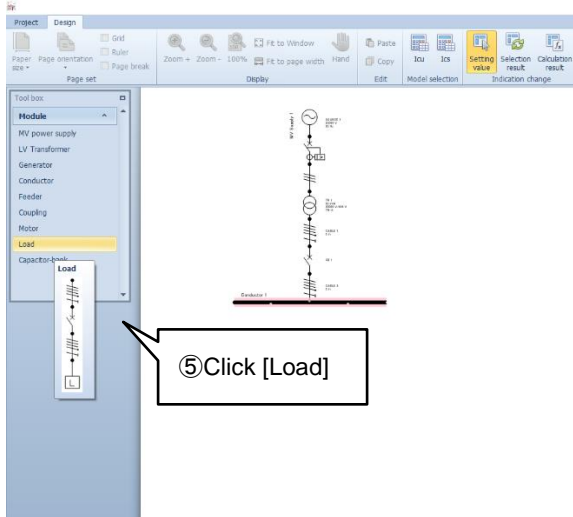
[1] Click [MV power supply] in Tool box and put it in drawing area.



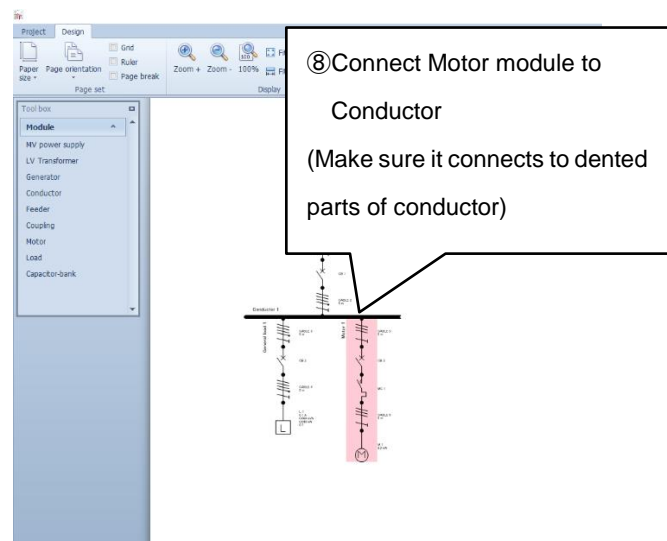
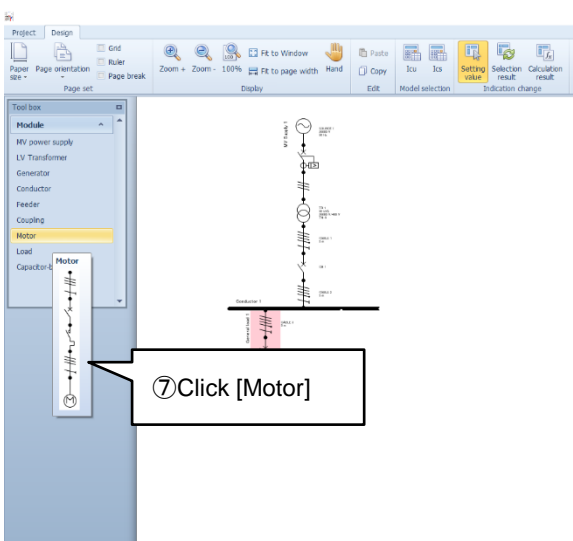
[2] Click [Conductor] in Tool box and put it under MV power supply.



[3] Click [Load] in Tool box and put it under [Conductor].

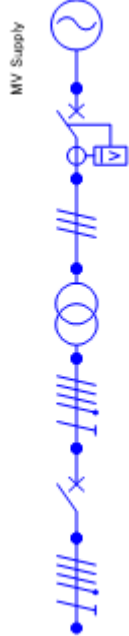




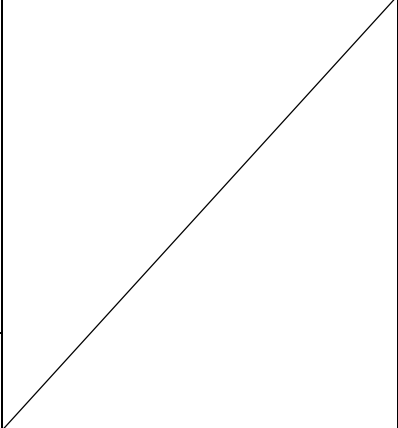


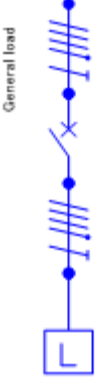



[4] Click [Motor] in Tool box and put it under [Conductor].



[5] After creating single-line diagram, click [Project] tab on upper left and click [Save]

Table2. Module list

| Item | Module | Item | Module | Item | Module |
|-----------------|---|----------------|---|--|---|
| MV power supply |  | LV Transformer |  | Generator |  |
| Feeder |  | Coupling |  |  | |
| Conductor |  | | | | |
| Motor |  | Load |  | Capacitor bank |  |

2.3 Set each module parameter

- (1) Set parameters such as value, material and system before short-circuit current calculation.
- (2) Click each element and set parameter in [Properties] window on right side according to the condition and purpose. Main changeable parameters are as follows.

Table 3. Changeable main parameters

| Element | Parameter 1 | Parameter 2 | Parameter 3 | Parameter 4 |
|----------------|-------------------------|-----------------|----------------------|-----------------------------|
| SOURCE | Voltage | — | — | — |
| TR | Secondary voltage | Earthing system | Transformer capacity | — |
| Generator | Voltage | Earthing system | Capacity | Transient reactance |
| Cable | Cable/Busbar | Length | material | — |
| Load | Load current | Power factor | — | — |
| Motor | Starting method | Output | — | — |
| Capacitor-bank | Capacitance | — | — | — |
| CB | Type of circuit breaker | Standard | Number of poles | Residual current protection |

(ex : In the case of changing the parameters of single-line diagram created at 2.2.)

- [1] Click transformer (TR) in the single-line diagram and change “Secondary voltage” and “Transformer capacity”.

① Click [TR]

| Item | Setting Value | Item |
|----------------------|---------------|------|
| Primary voltage | 20000 | V |
| Secondary voltage | 400 | V |
| Earthing system | 230 | |
| Transformer capacity | 240 | kVA |
| Current | 380 | A |
| %Z | 400 | % |
| X/R | 415 | |
| | 440 | |
| | 500 | |
| | 525 | |
| | 660 | |
| | 690 | |

② Change transformer setting on sub-window

Secondary voltage : 400V
Transformer capacity : 250kVA

[2] Click [Load] in the single-line diagram and change “Load current” and “Power factor”.

③ Click [Load]

| Item | Setting Value | Item |
|--------------|---------------|------|
| Load current | 80 | A |
| Power factor | 0.9 | |
| Capacity | 55.426 | kVA |
| Output | 38.798 | kW |

④ Change transformer setting on sub-window
Load current : 80A
Power factor : 0.9

[3] Click [Motor] in the single-line diagram and change “Starting method” and “Output”.

⑤ Click [Motor]

| Item | Setting Value | Item |
|-----------------|---------------------|------|
| Starting method | Star-Delta starting | |
| Output | 5.5 | kW |
| Load current | 7.5 | A |

⑥ Change transformer setting on sub-window
Starting method : Star-Delta starting
Output : 5.5kW

[4] Cable setting is also changeable.

The screenshot displays the EPLAN software interface for cable installation. A callout box labeled '7' points to a cable in a schematic diagram. Another callout labeled '9' points to the '31F' setting in the 'Cable arrangement' property table. A third callout labeled '8' points to the 'Cable installation' dialog box, which is open to show various configuration options. A fourth callout labeled '10' points to the 'Installation conditions' section of the dialog. A fifth callout labeled '11' points to the 'Cables installation method' section, specifically the '31/F' option.

7 Click [CABLE 1]

9 Click "31F" of Cable arrangement

8 Cable setting
 Cable / Busbar
 Cable length, Cable material
 Insulating material
 Cable installation method

10 It is possible to add cable installation condition

11 More setting (Only cable)
 Wiring systems, installation conditions,
 arrangement conditions

The setting before short-circuit current calculation is completed.

3. Calculate short-circuit current and select model

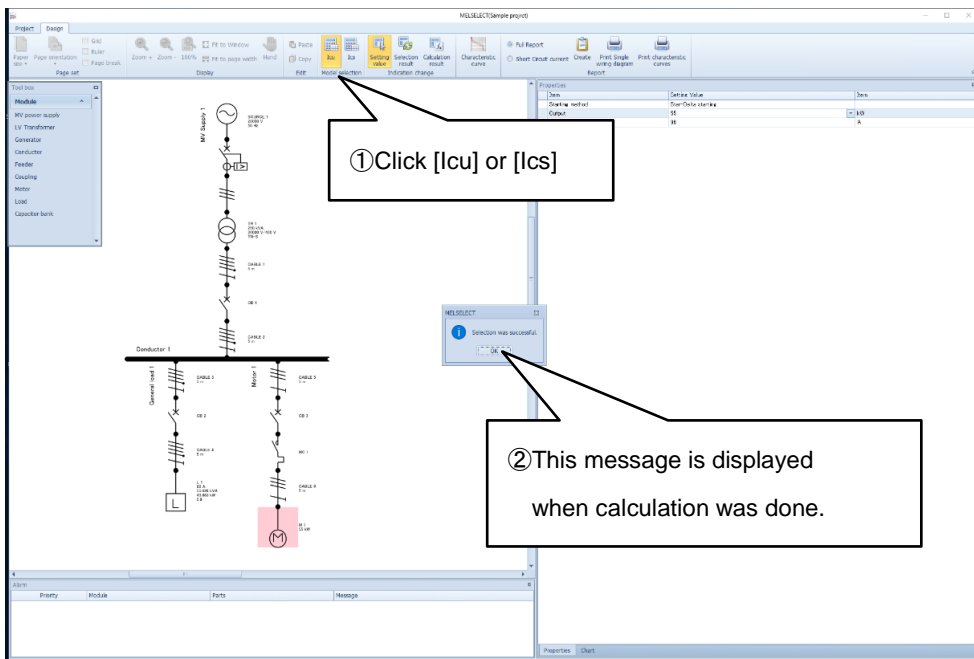
3.1 Calculate short-circuit current

(1) MELSELECT calculates short-circuit current of created single-line diagram at Chapter 2 and selects suitable model to protect from short-circuit current.

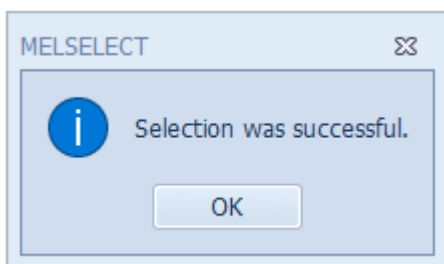
(2) According to the condition and purpose, select [Icu] or [Ics] for short-circuit current calculation.

Icu: Rated ultimate short-circuit breaking capacity (IEC60947-2)

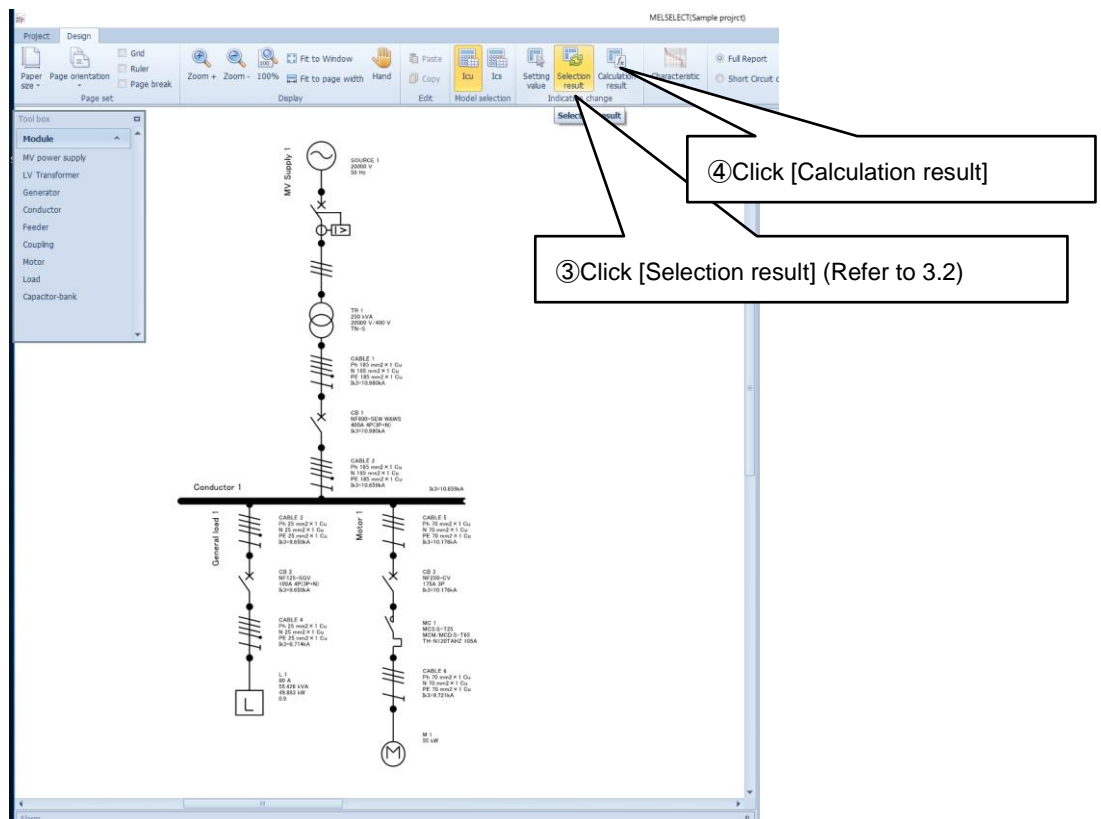
Ics: Rated service short-circuit breaking capacity (IEC60947-2)



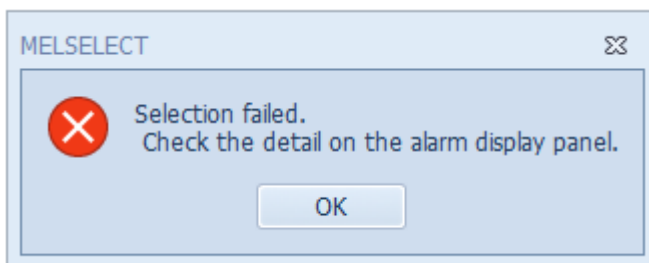
(3) When short-circuit current calculation was completed without any problem, "Selection was successful." is displayed in the middle.



- (4) After calculating short-circuit current, click [Calculation result] to show the calculation results in drawing area. To show selection results, click [Selection result]. (Refer to chapter 3.2)



- (5) When short-circuit current calculation has some problems, “Selection failed.” is displayed in the middle.



- (6) In the case of (5), error message is displayed at the bottom. According to the error message, change parameter.

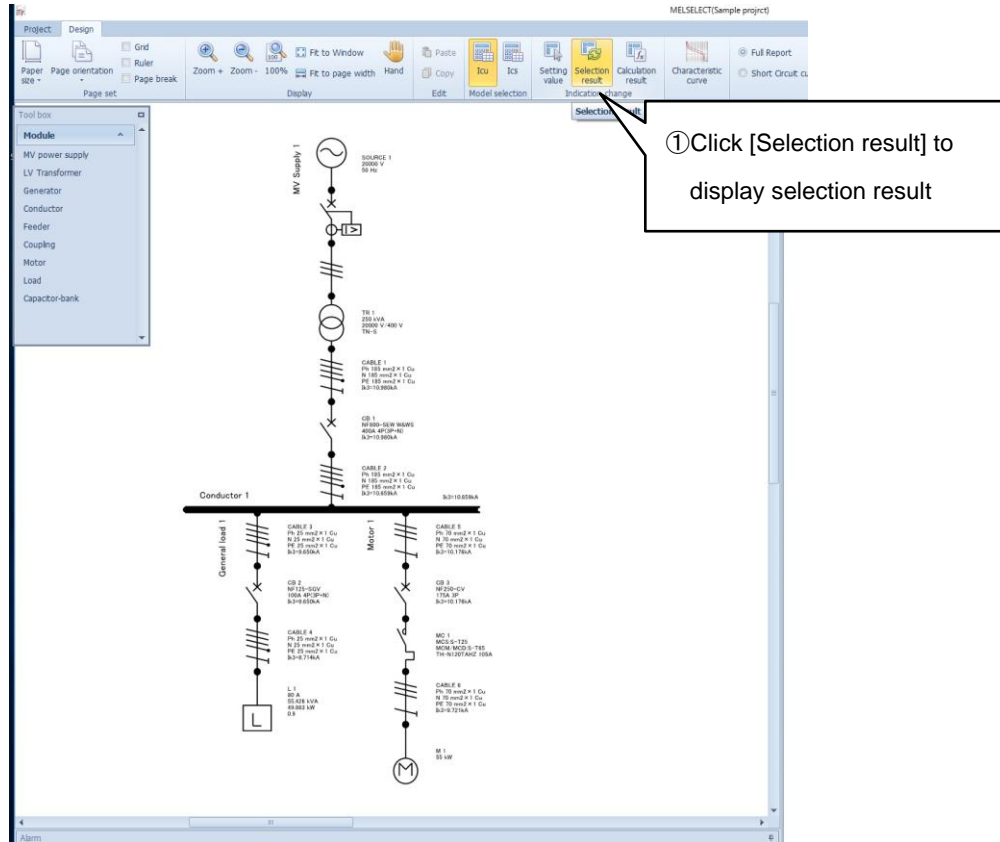
Table 4. Examples of error messages

| Examples of error messages | Examples of solutions |
|--|--|
| Secondary current is less than sum or load current | Since secondary current is too small, change transformer capacity. |
| | Since load current is too large, change load current. |
| Failed to acquire breaking capacity. | There is no suitable model, change calculation condition. |

- (7) When you change parameter setting after short-circuit current calculation, calculation results and selection results will be cleared. Calculate by [Icu] or [Ics] again.

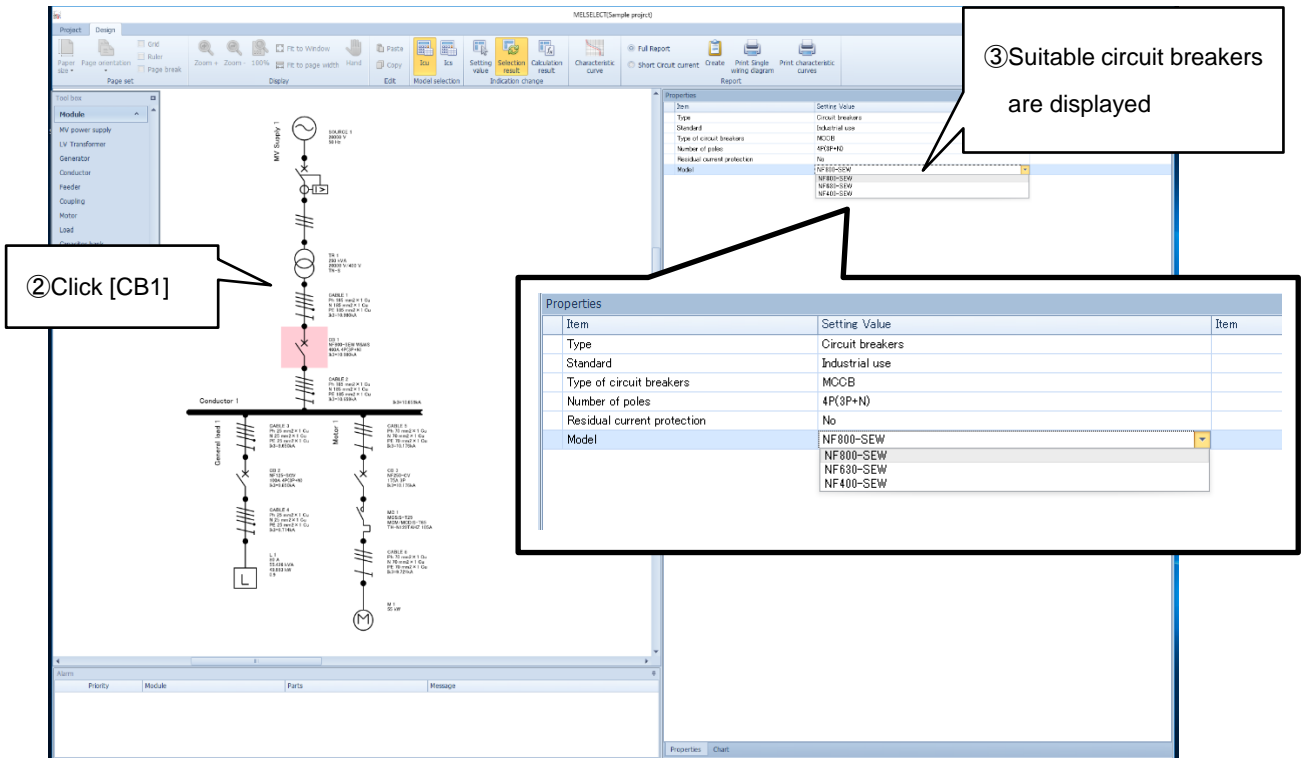
3.2 Select model

- (1) After short-circuit current calculation (Chapter 3.1), click [Selection result] to show selection results of each circuit breaker.



- (2) Depending on calculation results, multiple circuit breakers can be selected.

Click the circuit breaker (ex: CB1) and select suitable circuit breaker from "Model" of Properties on right sub-window.



Moreover, if you select circuit breaker manually, lock mark will be displayed. And if you click [Icu] or [Ics] for calculation again, calculation and selection will be done with the selected circuit breaker.

Note. If you click the lock mark again, it will be unlock.

The screenshot shows the MELSELECT software interface with a circuit diagram on the left and a properties table on the right. The circuit diagram includes components like a transformer (TS 1), cables (CABLE 1-5), circuit breakers (CB 1-4), and a motor (M 1). A callout box labeled '⑤ Lock mark will be displayed' points to a red lock icon on the 'Model' property in the table. Another callout box labeled '④ Change circuit breaker' points to a dropdown menu in the 'Model' row. A third callout box labeled '⑥ When you calculate again, calculation and selection are done with locked circuit breaker.' is positioned below the table.

| Item | Setting Value | Item |
|-----------------------------|------------------|------|
| Type | Circuit breakers | |
| Standard | Industrial use | |
| Type of circuit breakers | MCCB | |
| Number of poles | 4PSP-N0 | |
| Residual current protection | No | |
| Model | NFK10-SEW | |

(3) Cable/Busbar can be locked as same as circuit breaker.

⑦ Click [CABLE 1]

⑧ Change "cross sectional area"

⑨ When you calculate again, calculation and selection are done with locked cross sectional area.

| Item | Setting Value | Item |
|----------------------------|---------------|------|
| Cable / Busbar | Cable | |
| Length | 5 | m |
| Conductor material (Phase) | Du | |
| Conductor material (PE) | Du | |
| Insulating material | PVC | |
| Cable arrangement | 3IE | |
| Cross sectional area | 195 | |
| Number of wires | 4 | |
| | 6 | |
| | 10 | |
| | 16 | |
| | 25 | |
| | 35 | |
| | 50 | |
| | 70 | |
| | 95 | |
| | 120 | |
| | 150 | |
| | 185 | |
| | 240 | |
| | 300 | |

(4) Besides, when you change "Residual current protection (Yes/No)", "ACB/MCCB" and other elements, recalculate by [Icu] or [Ics] and reselect.

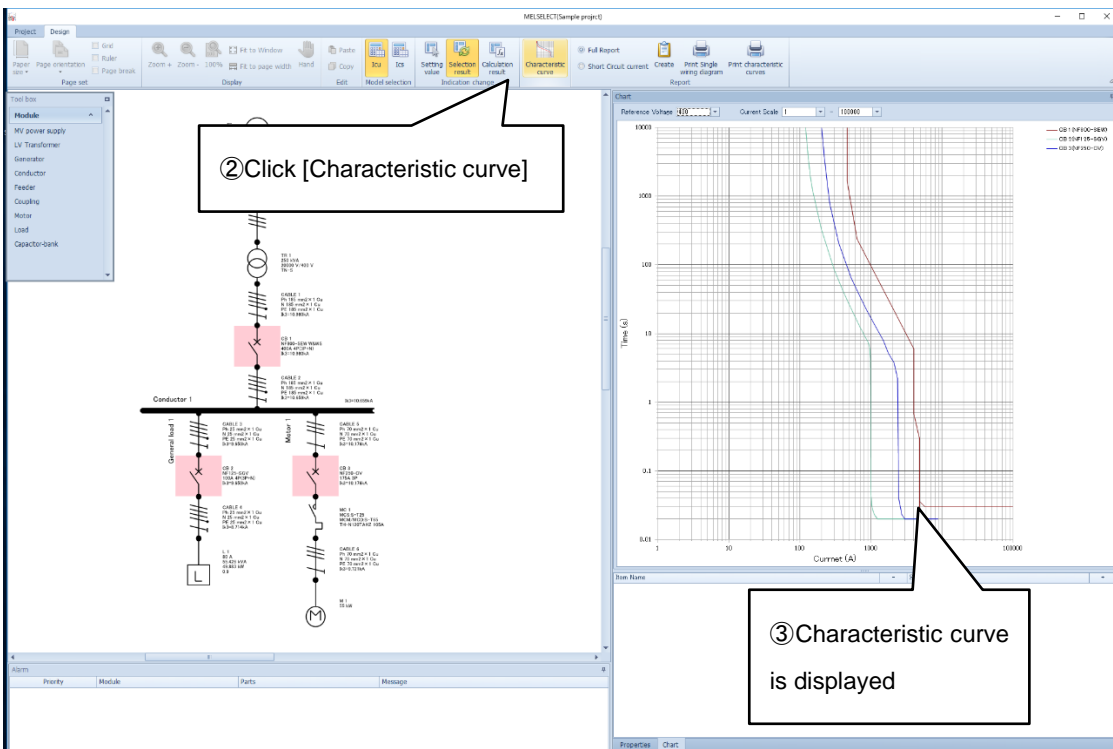
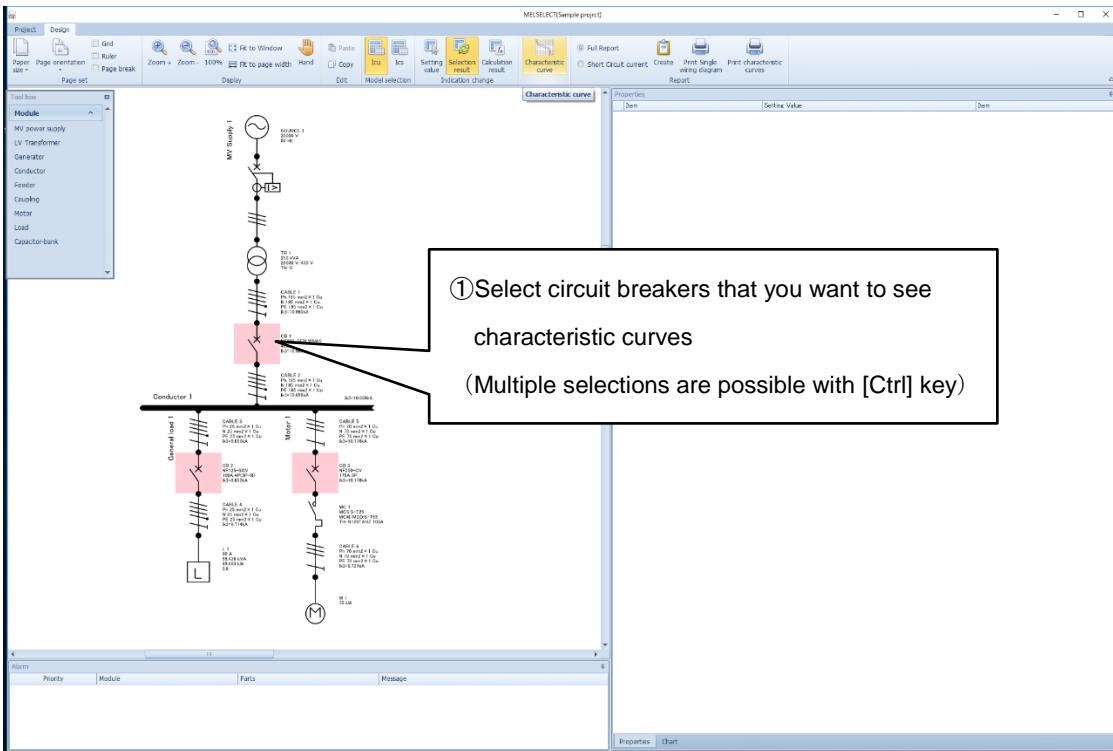
⑩ When you change conditions, recalculate by [Icu] or [Ics].

⑩ When you change conditions, recalculate by [Icu] or [Ics].

| Item | Setting Value | Item |
|-----------------------------|------------------|------|
| Type | Circuit breakers | |
| Standard | Industrial use | |
| Type of circuit breakers | MCCB | |
| Number of poles | 4P(3P+N) | |
| Residual current protection | No | |
| Model | NF800-SEW | |

3.3 Display characteristic curve

- (1) MELSELECT enables to display characteristic curve of selected circuit breakers and you can check coordination between circuit breakers.
- (2) According to selection results, select circuit breakers that you want to display characteristic curves by pressing [Ctrl] key and click [Characteristic curve]. Then characteristic curves are displayed on right side. (It is possible to show up to 10 characteristic curve)



(3) The default of characteristic curve is central value. If you want to change characteristic curve to Max or Min, select the legend of characteristic curve, change Band to "ON" and change the value.

④ Select legend of characteristic curve

⑤ The setting value is displayed

The screenshot shows the MELSELECT software interface. On the left is a circuit diagram with components like 'MV supply 1', 'Generator', 'Conductor', 'Feeder', 'Coupling', 'Motor', 'Load', and 'Capacitor-bank'. On the right is a 'Chart' window displaying a log-log plot of Time (s) vs Current (A). The chart shows three curves: CB (0.6910-4 W with MCR), CB (0.6910-4 W), and CB (0.6910-4 W). Below the chart is a 'Properties' table with various settings.

| Item Name | Setting Value |
|------------------------------|---------------|
| Rated current (In) | 10 |
| Current setting (I) | 1.0 |
| Uninterrupted current (Iu) | 1.0 |
| LTD time (tLTD) | 156 |
| STD pick up current (Istd) | 1.0 |
| IN ON/OFF setting | ON |
| STD time (tStd) | 65 |
| INST/MCR setting | MCR |
| INST pick up current (IInst) | 1.0 |
| Band | OFF |
| Color of line | 125.0.0 |
| Width of line | Narrow |
| Kind of line | Solid line |

⑥ Change Band to "ON".

⑦ Min/Max of characteristic curve is displayed.

This screenshot is similar to the previous one but with the 'Band' setting in the 'Properties' table changed to 'ON'. The chart now displays the minimum and maximum characteristic curves for the selected settings.

| Item Name | Setting Value |
|------------------------------|---------------|
| Rated current (In) | 10 |
| Current setting (I) | 1.0 |
| Uninterrupted current (Iu) | 1.0 |
| LTD time (tLTD) | 156 |
| STD pick up current (Istd) | 1.0 |
| IN ON/OFF setting | ON |
| STD time (tStd) | 65 |
| INST/MCR setting | MCR |
| INST pick up current (IInst) | 1.0 |
| Band | ON |
| Color of line | 125.0.0 |
| Width of line | Narrow |
| Kind of line | Solid line |

- (4) When selected circuit breaker is adjustable-type, it is possible to change each setting value of characteristic curve. Change the setting value and it will be reflected to the characteristic curve.

The screenshot displays the MELSELECT software interface. On the left, a circuit diagram shows an MV supply connected to a circuit breaker (CB) and various loads. The main window shows a characteristic curve chart with Time (s) on the y-axis (log scale from 0.01 to 10000) and Current (A) on the x-axis (log scale from 1 to 10000). The chart shows several curves representing different settings. A callout points to the chart with the text "⑨ Change will be reflected". Below the chart is a settings table for the selected item.

| Item Name | Setting Value |
|----------------------------|--|
| Rated current (In) | |
| Current setting (Is) | 1.0 |
| Uninterrupted current (Iu) | 0.5 0.55 0.6 0.65 0.7 0.75 0.8 0.85 0.9 0.95 1.0 |
| LTD time (TL) | |
| STD pick up current (Istd) | |
| I2t ON/OFF setting | |
| STD time (Tsd) | |
| INST/MGR setting | MCR |

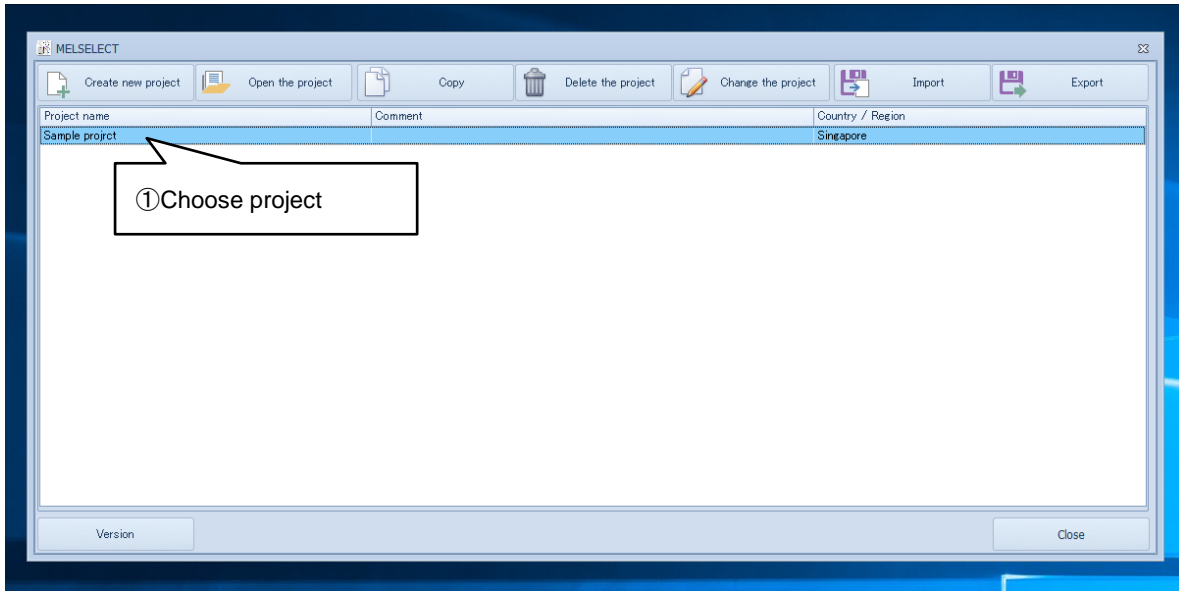
A callout points to the settings table with the text "⑧ Each setting value of characteristic curve is changeable".

4. Generate report

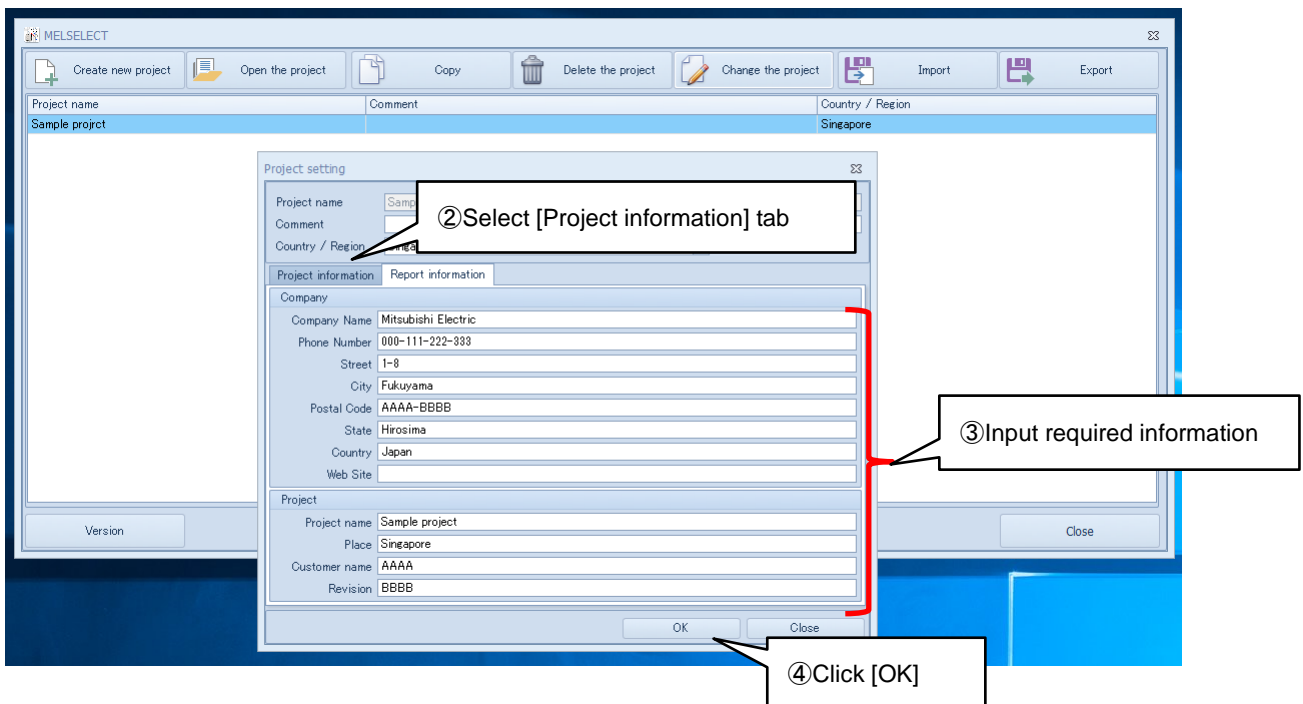
4.1 Preparation for report generation

MELSELECT enables to generate report of short-circuit current calculation, model selection result and characteristic curve. For preparation, you need to enter Report information such as company name and project name.

- (1) Click [Project] tab on left side, save the project and back to the project screen Chapter 2.1.



- (2) Click the project and select [Report information] tab in Project setting window.
- (3) Enter project information such as “Company Name” and “Project name” in Report information.



- (4) Click [OK] button.

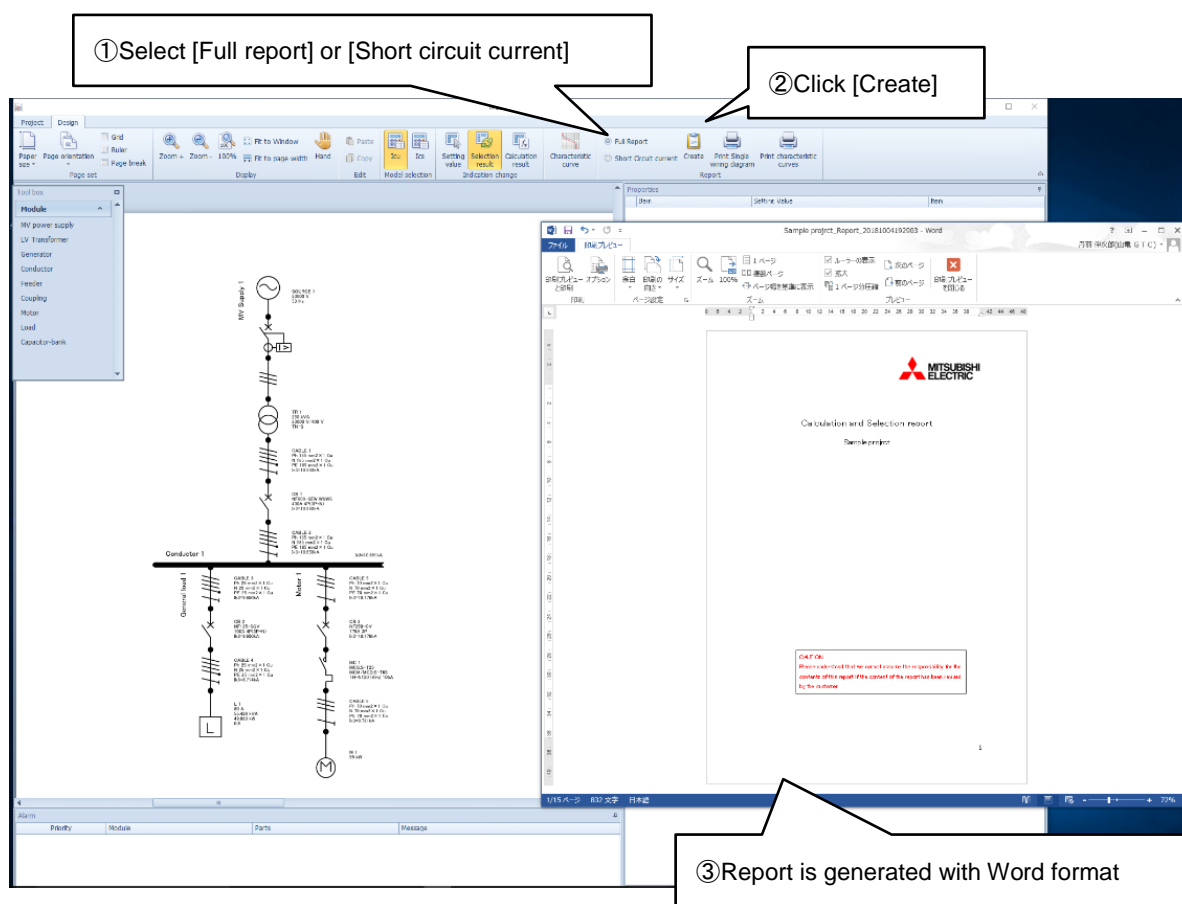
4.2 Report of calculation and selection result

(1) Check whether [Full report] or [Short circuit current].

Table 5. Report types

| | Short-circuit calculation results | Model selection result |
|-----------------------|-----------------------------------|------------------------|
| Full report | ○ | ○ |
| Short circuit current | ○ | — |

(2) Click [Create] in Report section on upper side, and the report of short-circuit current calculation results and model selection results are automatically generated.



(3) Report is created as following file name

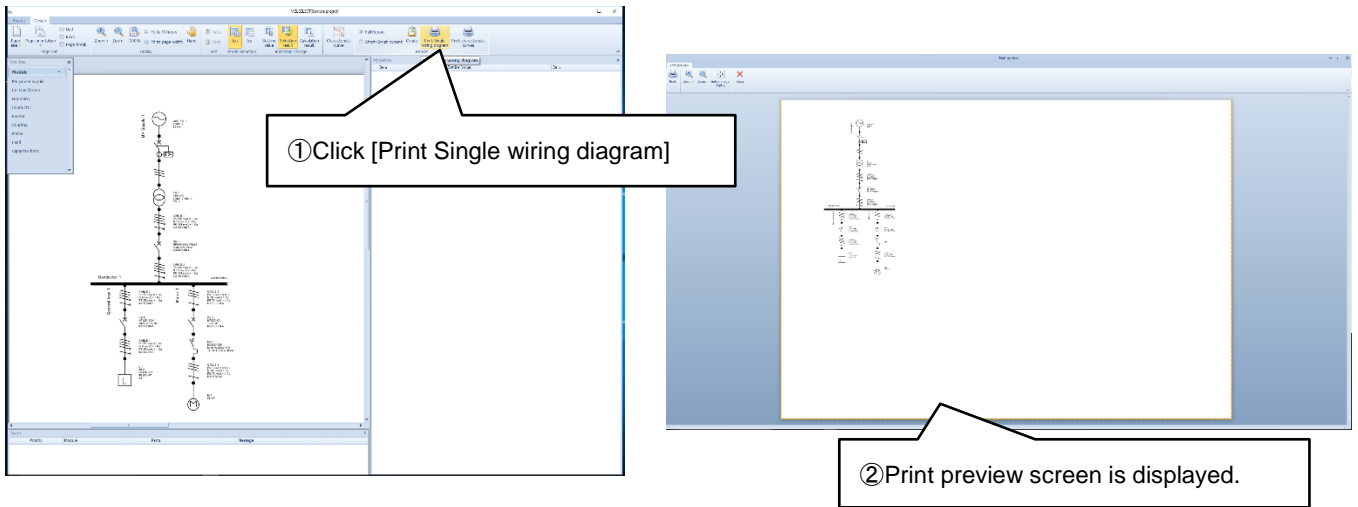
Table 6. File name of reports

| | File name |
|-----------------------|---|
| Full report | [Project name]_Report_YYYYMMddHHmmss.docx |
| Short circuit current | [Project name]_ShortCircuit_YYYYMMddHHmmss.docx |

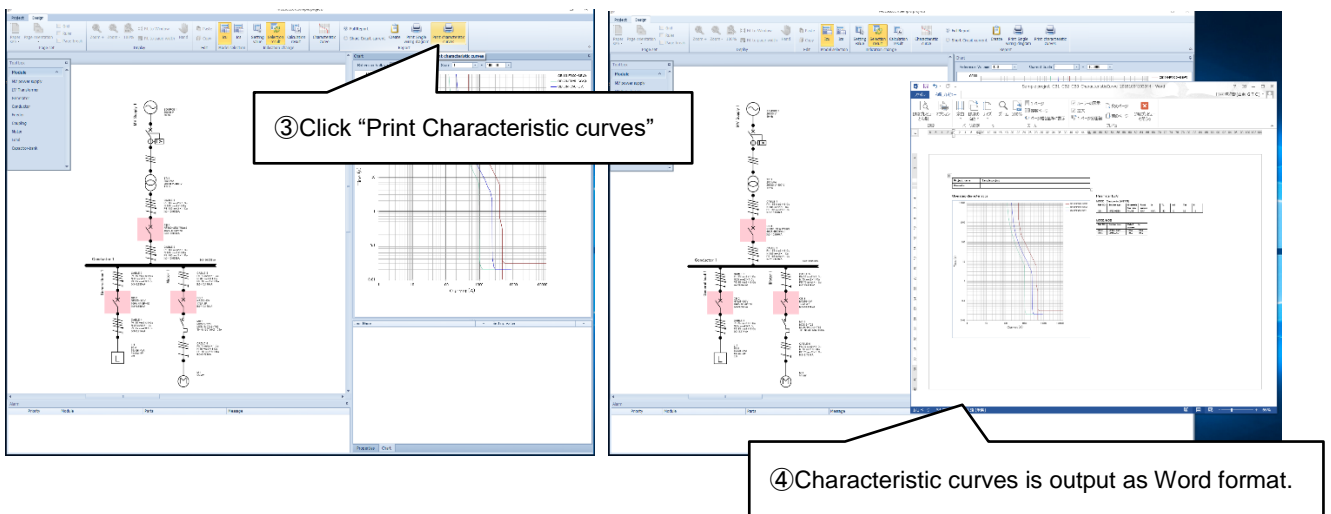
4.3 Print single-line diagram and characteristic curve

MELSELECT enables to print single-line diagram and characteristic curve as related materials.

(1) Click [Print Single wiring diagram] in Report section to print created single-line diagram and click [Print].



(2) Click [Print Characteristic curves] in Report section to print created characteristic curves as Word format and click [Print].



(3) Created characteristic curve is saved as following file name

[Project name]_CharacteristicCurve_yyyyMMddHHmmss.docx

5. Appendix

5.1 Troubleshooting

| No | Contents | Cause and solution |
|----|--|---|
| 1 | MELSELECT does not work | Check if OS is Windows 10. |
| 2 | | Check if it is Microsoft .NET Framework 4.6. |
| 3 | | Your OS language may be incompatible. Change the language setting to English and try again. |
| 4 | | The download may have failed. Download it again. |
| 5 | When calculating short-circuit current, error occurs | Change the setting condition referring to the error message. |
| 6 | | Make sure each element is correctly arrange and connected. |
| 7 | | There might be no suitable model. Reconsider the calculation conditions. |

Mitsubishi Electric SELECTION software (MELSELECT) for Mitsubishi Electric low-voltage circuit breaker

Service Network

| Country/Region | Corporation Name | Address | Telephone |
|-------------------------------------|--|---|-------------------------|
| Australia | Mitsubishi Electric Australia Pty. Ltd. | 348 Victoria Road, Rydalmere, N.S.W. 2116, Australia | +61-2-9684-7777 |
| Bangladesh | PROGRESSIVE TRADING CORPORATION | HAQUE TOWER,2ND FLOOR,610/11,JUBILEE ROAD, CHITTAGONG, BANGLADESH | +880-31-624307 |
| | ELECTRO MECH AUTOMATION & ENGINEERING LTD. | SHATABDI CENTER, 12TH FLOOR, SUITES : 12-B, 292, INNER CIRCULAR ROAD, FAKIRA POOL, MOTIJIHEEL, DHAKA-1000, BANGLADESH | +88-02-7192826 |
| Belarus | Tehnikon | Oktyabrskaya 19, Off. 705, BY-220030 Minsk, Belarus | +375 (0)17 / 210 46 26 |
| Belgium | Koning & Hartman B.V. | Woluwelaan 31, BE-1800 Vilvoorde, Belgium | +32 (0)2 / 2570240 |
| Brazil | Mitsubishi Electric Do Brasil Comercio E Servicos Ltda. | Av. Adelino Cardana, 293 -21 and. - Bethaville, 06401-147, Barueri/SP - Brasil | +55-11-4689-3000 |
| Cambodia | DHINIMEX CO.,LTD | #245, St. Tep Phan, Phnom Penh, Cambodia | +855-23-997-725 |
| Chile | Rhona S.A. | Vte. Agua Santa 4211 Casilla 30-D (P.O. Box) Vina del Mar, Chile | +56-32-2-320-600 |
| China | Mitsubishi Electric Automation (China) Ltd. | Mitsubishi Electric Automation Building, No.1386 Hongqiao Road, Shanghai,200336 | +86-21-2322-3030 |
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