

PTW Equipment Evaluation

Equipment Evaluation Studies

The Equipment Evaluation Study module compares protective device ratings with short-circuit calculations. The program also checks for missing input data and compares continuous ratings to calculated design and operating conditions. Equipment that fails the evaluation are reported in table form and color-coded by the one-line diagrams. As with all PTW study modules, Equipment Evaluation uses the same project database, integrating all balanced and unbalanced/single-phase study modules, and allowing you to examine existing projects without additional input requirements.

Benefits

- Helps you design safer and more cost effective power systems.
- Reduces mistakes by systematically comparing continuous and short circuit currents to equipment ratings.
- Saves you time by making all de-rating adjustments and by summarizing all of the necessary data into a single easy-to-read table.
- Saves you time by flagging the equipment that are in the marginal range or failed in the rating checks.
- Saves you time by running all related studies in one click.
- Increases flexibility by allowing user defined criteria for pass/marginal/fail.
- Increases flexibility by evaluating short circuit ratings, continuous ratings, or both.
- Communicate designs more effectively with professional reports and annotated one-line diagrams.



Study Result	Device	Status	Bus	Manufacturer	Type	Description	Frame	Bus Volts	Max Volts
	F TK G S...	Fail	027-D58 3	GOULD SHAWMUT	CL-14, S...	19E-600E	CL-14, 15...	480	5500
	MCP M2B...	Fail	028-MTR 28 B	CUTLER-HAMMER	MCP	250A (1250-2500A I...	MCP	480	480
	8 SWBD1	Fail	LV DISTRB	CUTLER-HAMMER	CHRD...	GF, 63-400A	CHRD	480	480
	LVP1	Fail	LV DISTRB	CUTLER-HAMMER	CHRD...	GF, 63-400A	CHRD	480	480
	F TK 3	Fail	008-TX C PRI	SAC	SH-4, 1...	19E-200E Slow Spe...	SH-4, 50E	4160	7200
	F2	Fail	018-MTR 18	COOPER	NKICR...	1.5C-200C	NK-85C	4160	15500
	F TK C	Fail	004-TX B PRI	SAC	Positak...	67-200T 1-Speed	Positak, 2...	13800	13800
	LVP4	Pass	028-MTR 28 A	SQUARE D	NA	600-1200A	NA	480	480
	LVP5	Pass	028-MTR 28 B	SQUARE D	NA	600-1200A	NA	480	480
	MCP M2B...	Pass	028-MTR 28 B	WESTINGHOUSE	MCP	250-400A	MCP525...	480	600
	8 SWBD1	Pass	LV DISTRB	GE	TJH, M...	LSL 60-600A	TJH	480	480
	LVP1	Pass	LV DISTRB	MERLIN GERIN	STR 45...	480-600A SENSOR	DX408+	480	480
	LVP2	Pass	LV DISTRB	SQUARE D	LE, Mer...	LSL 100-600A	LE	480	480
	LVP3	Pass	LV DISTRB	GE	TEL	15-950A	TEL	480	480
	CB G1	Pass	008-D5 SWG1	GE	AM	600-2000A	AM-4.1G-1...	4160	4160
	F5	Pass	008-D5 SWG1	SAC	SH-4, 1...	19E-200E Slow Spe...	SH-4, 80E	4160	7200
	CB G2	Pass	028-D5 SWG3	GE	AM	600-2000A	AM-4.1G-1...	4160	4160
	CB G3	Pass	028-D5 SWG3	SIEMENS	GMI	1200-3000A	5-GMI-250	4160	4760

Interface Options

- Intuitive graphical interface enables navigation of device type and generation of study results and reports.
- Study Results can be printed in a concise Report format or exported to an Excel-compatible spreadsheet.
- Choose from Equipment Evaluation Reports and Datablocks or graphically identify equipment that fails the evaluation in a color-coded one line diagram.
- Clear and concise reporting of all equipment in a system enables easy diagnosis of potential problems. Sort results by device type, status, bus, voltage, ampacity, and more.
- Input data evaluation and reporting to identify missing data or errors in input data.

Study Options

- Continuous rating checks include cables, transformers, transmission lines, buses, generators, protective devices, panels, and protective devices on individual panel circuits.
- Short circuit interrupting and withstand rating checks for protective devices, buses and schedules.
- Choose between balanced and unbalanced study results, protection and non-protection device types.
- Choose between bus or branch fault study results from ANSI, IEC, or comprehensive fault analysis methods for evaluation.
- Equipment evaluations can be performed based upon user-defined limits or system defaults.