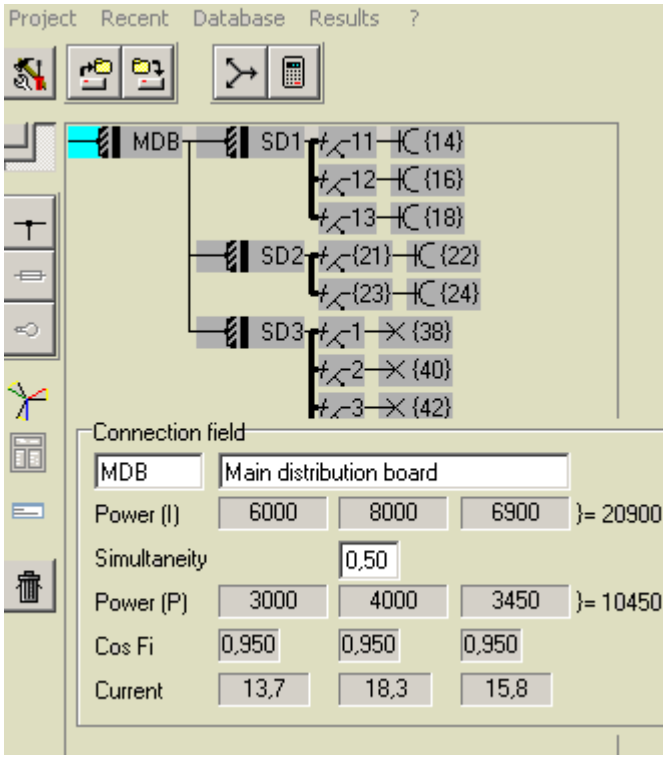
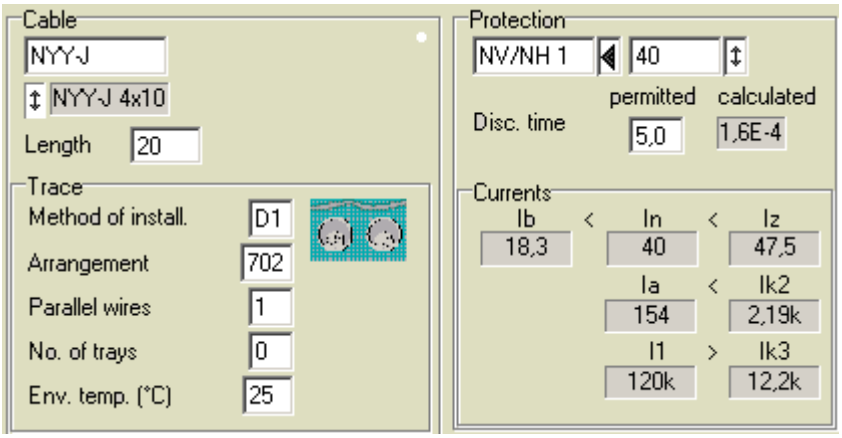
ELIN

DIMENSIONING OF ELECTRICAL INSTALLATION

Designing of electrical installation was never too easy. Adding new technologies it becomes even more complex and limited with different national codes and regulations. So we wanted to help designer by using **ELIN** to quickly create and optimize electrical installation. Program **ELIN** automaticaly calculates short-circuit currents, voltage drops and verifies selectivity. **ELIN** spreads energy consumption optimaly.



Using program **ELIN** it is possible for maintenance technicians to construct their own electrical network which should be in accordance to the code, regulations and IEC standards (like IEC 60364-5-52).



The outputs are project data in Excel format and drawings.

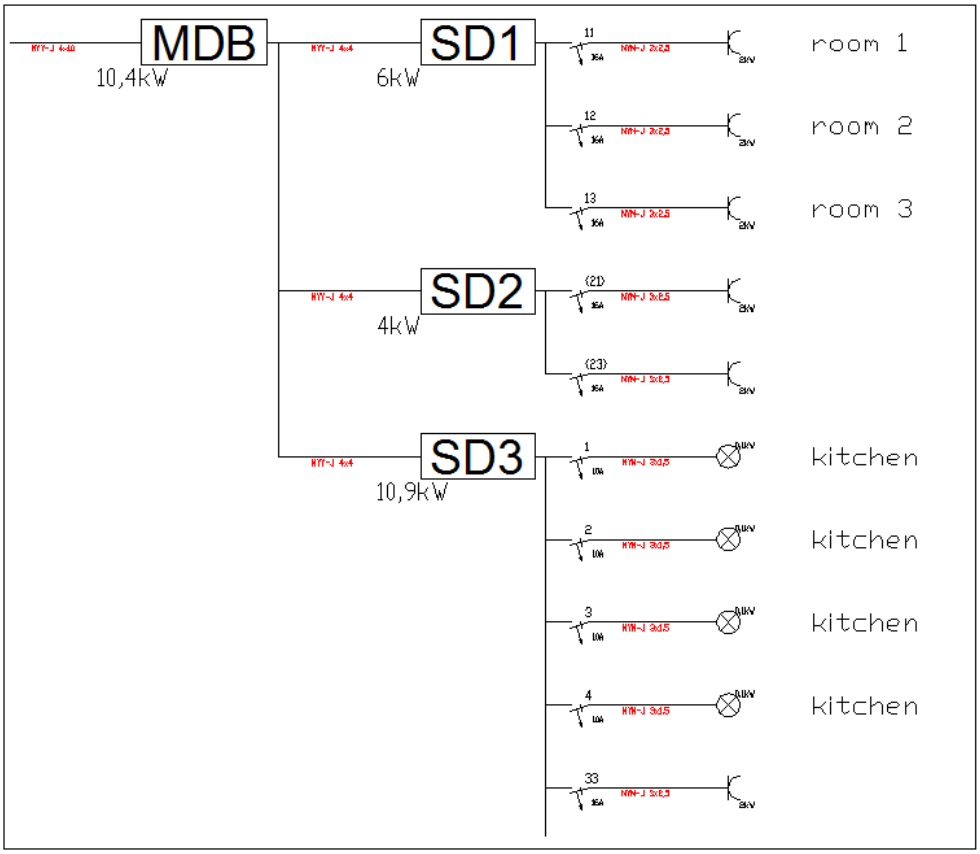
Owner	Name	Description	Phase	Power (i)	Simul.	Power(p)	Cos Fi (Ib Max)	Ib (Max)	Meth.Inst	Arrangem
	MDB-	Main distribution board	3P	20900	0,5	10450	0,95	18,3	D1	702
MDB-	MDB		3P	20900	1	20900	0,95	36,6	D1	702
MDB	SD1-	sub distributor 1	3P	6000	1	6000	0,95	9,15	B2	51
MDB	SD2-		3P	4000	1	4000	0,95	9,15	B2	51
MDB	SD3-		3P	10900	1	10900	0,95	18,3	B2	51
SD1-	SD1		3P	6000	1	6000	0,95	9,15	B2	51
SD1	11	room 1	L2	2000	1	2000	0,95	9,15	A2	21
SD1	12	room 2	L3	2000	1	2000	0,95	9,15	A2	21
SD1	13	room 3	L1	2000	1	2000	0,95	9,15	A2	21
SD2-	SD2		3P	4000	1	4000	0,95	9,15	B2	51
SD2	{21}		L2	2000	1	2000	0,95	9,15	C1	571
SD2	{23}		L3	2000	1	2000	0,95	9,15	A2	21
SD3-	SD3		3P	10900	1	10900	0,95	18,3	B2	51
SD3	1	kitchen	L3	100	1	100	0,95	0,458	A2	21
SD3	2	kitchen	L3	100	1	100	0,95	0,458	A2	21
SD3	3	kitchen	L3	100	1	100	0,95	0,458	B2	441
SD3	4	kitchen	L3	100	1	100	0,95	0,458	A2	21
SD3	33		L1	2000	1	2000	0,95	9,15	A2	21
SD3	31		L2	2000	1	2000	0,95	9,15	A2	21
SD3	32		L1	2000	1	2000	0,95	9,15	E0	312
SD3	34		L2	2000	1	2000	0,95	9,15	B2	531
SD3	36	kitchen	L3	2500	1	2500	0,95	11,4	A2	21

There are different printouts where protection elements, cables and loads are sorted by location (distributor) or like a bill of materials in the project. Graphical outputs of **ELIN** can be plotted as a complete electrical network (for maintenance service) or like single-line schemes (for designers).

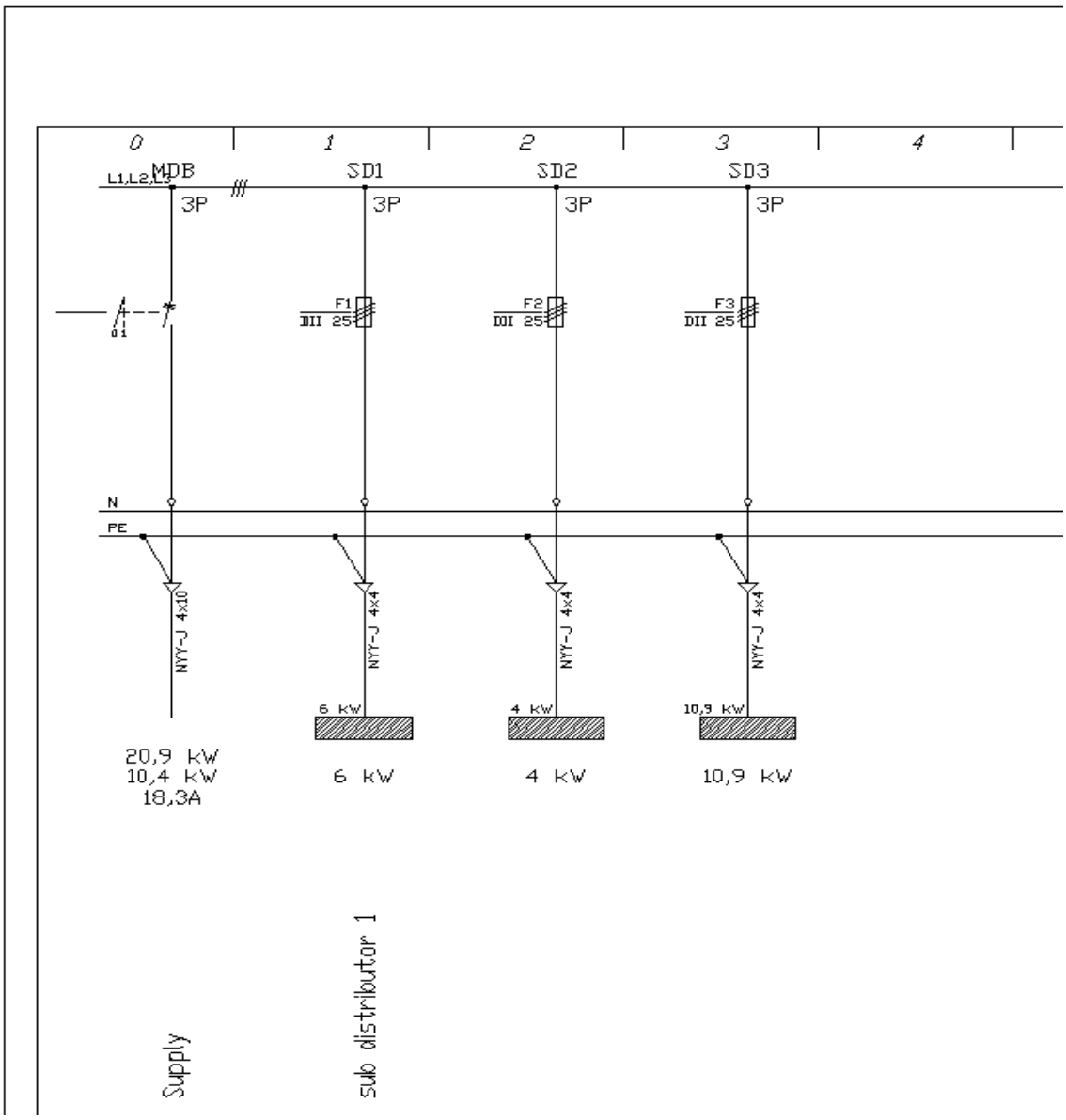
Distributor	Cable	L[m]
Connection point	NYY-J 4x10	20
Main distribution board	NYY-J 4x4	36
sub distributor 1	NYM-J 3x2,5	45
	NYM-J 3x1,5	40
	NYM-J 3x2,5	30
	NYM-J 3x2,5	75

Distributor	ProType	In	PhSys	pcs
Connection point	NV/NH 1	40	3	1
Main distribution board	DII	25	3	3
sub distributor 1	MCB/B	16	1	3
	MCB/B	10	1	4
	MCB/B	16	1	2
	MCB/C	16	1	5

Distributor	Description	PhS	pcs
sub distributor 1	Socket 1P	1	3
	ISO light	1	4
	Socket 1P	1	2
	Socket 1P	1	4
	Washing machine	1	1



network overview



single-line scheme

Program **ELIN** can be used as a standalone or together with graphical environments like Caddy++ (SEE Electrical Building, IGE+XAO) and AutoCAD (Auotdesk). **ELIN** is running in Microsoft operating systems (32/64bit) on single PC or in a computer network.

Development and distribution:

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