



ELOGIC

CHECKLIST

Following points MUST BE CHECKED before commissioning the plant:

1. Set points on Circuit Breakers, MCCB's, meters etc.
(All scales are set to lowest value by Elogic Systems).
2. Control of main busbar assemblies and connections to busbars.
3. Tighten terminals on various components to correct torque.
4. Connection to various components only after manufacturer specifications
5. Please pay attention by choice of connection materiel for external cable connections, especial by use of aluminum cores. Rigid aluminum conductors should normally only be connected by use of cablelugs or studs.
6. Inspection of cleaning.
7. Functional test of control cleaning.
8. Control of fault protection and perform isolation test.

In general refer to IEC 60364 – Installation of switchboard.

TIGHTENING TORQUES

Busbar assemblies and primary connections (dry thread)		
Screw	Tightening torque	
	Nm	Kpm
M4	2,5	0,25
M5	5	0,5
M6	8	0,8
M8	20	2
M10	40	4
M12	70	7
Screws for external conductors at switches type Q		
M6	7	0,7
M8	14	1,4
M10	28	2,8
M12	40	4,0
Screws at C17x13x0.8 busbar in Tabula-switchboards		
M8	10	1
Screws for external conductors at draw-out main terminals		
M6	8	0,8
M12	40	4

Other screws for connection, look at the manufacturers technical data sheet



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MAINTENANCE INSTRUCTIONS

By preventive maintenance of switchboards, which ought to take place at least once a year, the following general check points can be used as a guide line:

1. Visual inspection
2. Cleaning of the switchboard – especially insulating parts and ventilation gaps must be cleaned of dust and dirt.
The access ways to the switchboard must be kept free.
3. Tighten-up electrical and mechanical busbar joints.
(See enclosed list with tightening torque's)
4. Operation of various breakers and isolating switches.
This is very important and ought to take place frequently. (EN 60947)
5. Operation of main contacts.
6. Perform thermal inspection.
7. Replace worn out parts on basis of operating time or switching statistics.
8. High-voltage and isolation test. Be sure to disconnect electronic and control circuit cables, Class B RCB's and MCCB's with RCB-modules together with opening of all feeders.
9. Check fault protection.
10. Check alarm and control functions.
11. If the switchboard has been subjected to extreme operational conditions (e.g damage caused by fire, water, lightning or substantiel short circuit currents), it should always be checked according to above list.
Damaged parts are to be replaced.

Besides above mentioned points 1-11 the following items concern the draw-out system:

12. The contact elements of draw-out cassettes must be operated at least once a year.
- 13 The contact elements have to be greased with non-corrosive vaseline or contact grease.

Besides this, we refer to present regulation for connection, running and maintenance of electrical installations.

Please contact Elogic A/S service department for help for above mentioned.