



1. Ground bar nacelle. Collects all ground wiring in the nacelle except from generator terminal box. Connected by cable to the ground bar in Control Panel.
2. Blades. There are receptors in the tips, connected to the main shaft by wire.
3. Main bearing house. The shaft and the house has a by-pass commutator connection in order to protect the bearing.
4. Generator. The ground in terminal box is directly connected to the ground bar in the Control Panel.
5. Lightning rod. Is integrated with anemometer and wind vane mountings in order to protect these as well.
6. Commutator connection to tower top. Additional protection of yaw bearing.
7. Ground bar tower top.
8. Ground bar in Control Panel.
9. Ground bar in tower bottom.

⏏ Symbol for a grounded structural steel part or connection to such one.

All ground cables are 120 mm<sup>2</sup>

Schematic drawing - shows principles only					
Quantity: 1	Material:			Filename LIGHTPRD.DWG	
Designed by: KN	Checked by: DS	Approved by - date:	Date 14/10/03	Doc. no.:	Scale
Lightning protection and grounding			NORWIN 47-ASR-600/750kW		
			NORWIN A/S		Revision: 1 Sheet 1/1