

# DIN 19704-3:2014-11 (E)

## Hydraulic steel structures - Part 3: Electrical equipment

---

<b>Contents</b>		<b>Page</b>
	<b>Foreword</b> .....	<b>3</b>
<b>1</b>	<b>Scope</b> .....	<b>4</b>
<b>2</b>	<b>Normative references</b> .....	<b>4</b>
<b>3</b>	<b>General</b> .....	<b>5</b>
<b>3.1</b>	<b>Design</b> .....	<b>5</b>
<b>3.2</b>	<b>Safety requirements</b> .....	<b>5</b>
<b>3.3</b>	<b>Actions to be taken in an emergency</b> .....	<b>5</b>
<b>3.3.1</b>	<b>Emergency stop</b> .....	<b>5</b>
<b>3.3.2</b>	<b>Emergency start</b> .....	<b>5</b>
<b>3.4</b>	<b>Protective measures</b> .....	<b>5</b>
<b>3.5</b>	<b>Control process memory</b> .....	<b>6</b>
<b>4</b>	<b>Electrical equipment</b> .....	<b>6</b>
<b>4.1</b>	<b>General</b> .....	<b>6</b>
<b>4.2</b>	<b>Motors and brakes</b> .....	<b>6</b>
<b>4.3</b>	<b>Cables and wires</b> .....	<b>7</b>
<b>4.4</b>	<b>Connections</b> .....	<b>7</b>
<b>4.5</b>	<b>Auxiliary equipment</b> .....	<b>7</b>
<b>4.6</b>	<b>Limit switches and pressure switches</b> .....	<b>7</b>
<b>4.7</b>	<b>Overload protection devices</b> .....	<b>8</b>
<b>4.8</b>	<b>Monitoring systems</b> .....	<b>8</b>
<b>5</b>	<b>Control functions</b> .....	<b>8</b>
<b>5.1</b>	<b>Switch-off at end position</b> .....	<b>8</b>
<b>5.2</b>	<b>Drives on both sides</b> .....	<b>9</b>
<b>6</b>	<b>Enclosures</b> .....	<b>9</b>
<b>7</b>	<b>Steel frames and other supporting elements</b> .....	<b>9</b>