

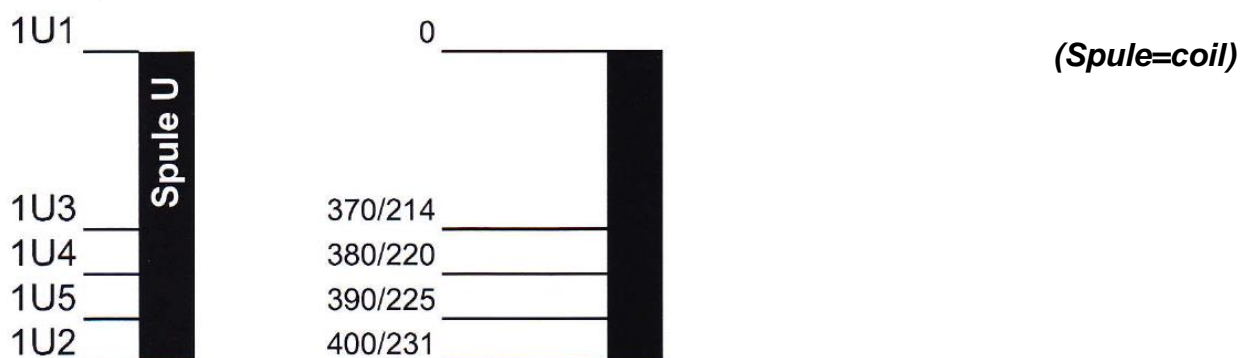
## Markings of winding connections regarding 3AC transformers

### Basics:

- 1.) The **first** winding is designated with **1**, the **second** winding is designated with **2**, the **third** with a **3** in front of the phase identification.
- 2.) The **start** of a winding is designated with a **1**, the **end** of a winding with a **2** after the phase identification.
- 3.) Tappings of the windings get ascending numbers from 3 to ... beginning from the smallest voltage (depends on the number of tappings)

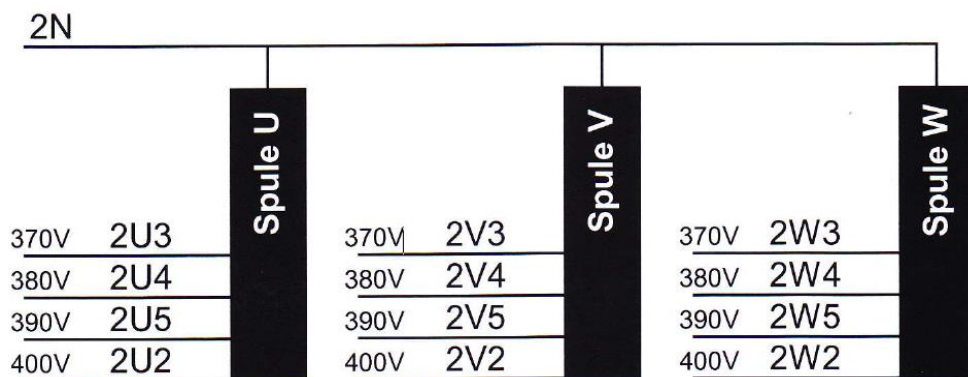
### Example:

Winding Nr. 1 with 3 taps



### Example with Voltages:

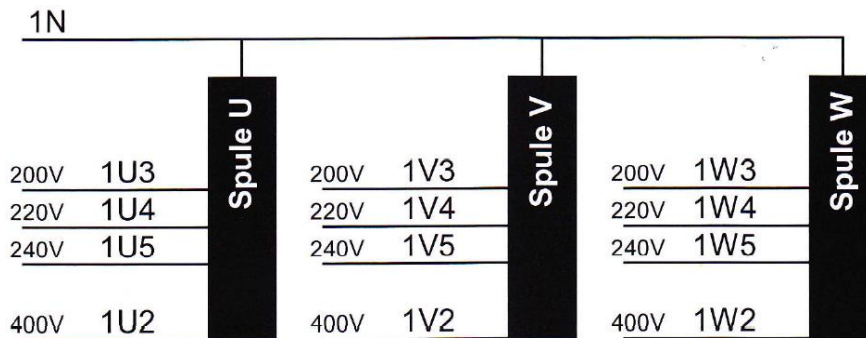
Winding Nr. 2 is connected in Star (winding starts are connected to middle point)  
The linked voltage is 3x400V with tappings at 3x 370/380/390V



The voltage values are always specified as linked. (no string values!!)

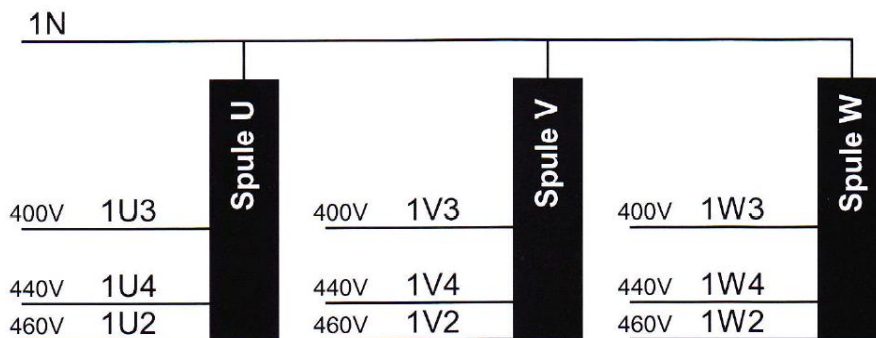
**Example: 3AC auto transformer**

**Input: 3x200/220/240V  
Output: 3x400V**



**Example: 3AC auto transformer**

**Input: 3x440/460V  
Output: 3x400V**



**Example: 3AC isolating transformer (galv. separated windings)**

**Input: 3x200/220/240V  
Output: 3x400V**

