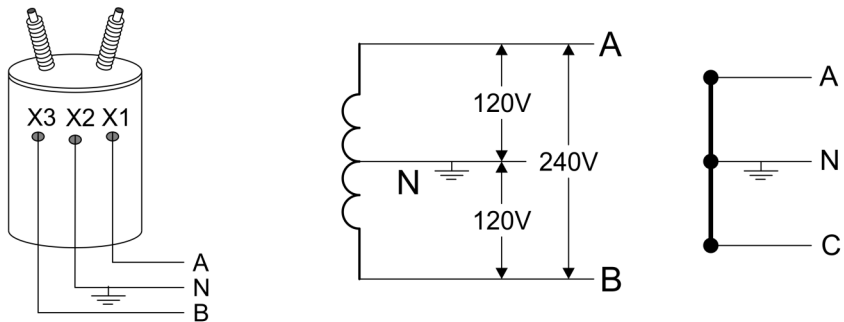




# Power Measurements Technical Bulletin

## Meter Site Data Sheet Three Wire Single Phase 2S Meter

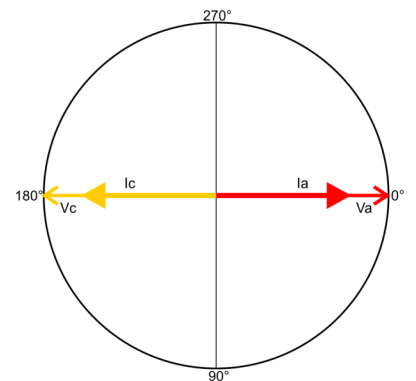
### Distribution Transformer Configuration



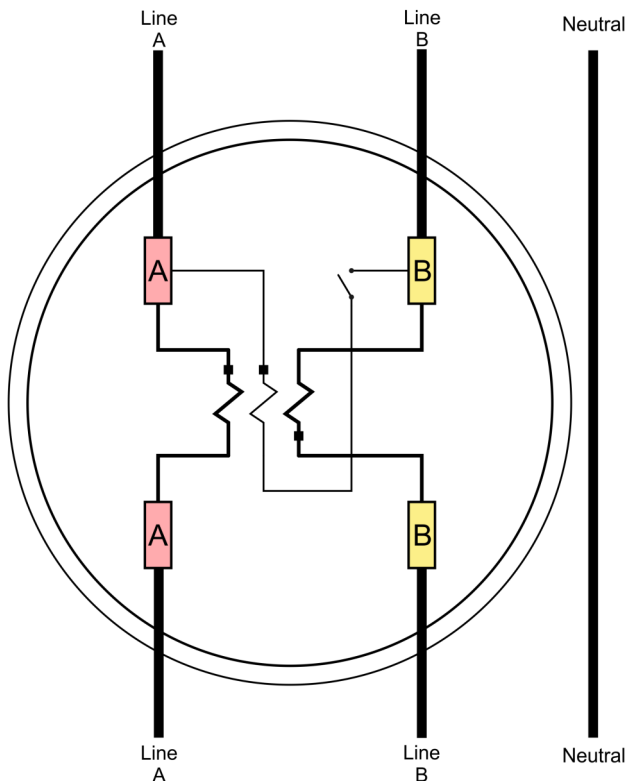
This single phase service is the most common for residential customers. It is also used for small commercial customers. A single center tapped transformer provides two hot lines 180 degrees out of phase and a neutral.

### Distribution Phasors

Phase	V(p-n)	V $\phi$	I(x)	I $\phi$
A	120	0	Ia	0
B	120	180	Ib	180



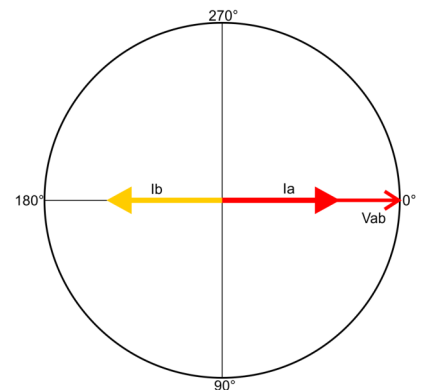
### 2S Non-Blondel (1V 2I 3W)



$$P = \vec{V}_{ab} \cdot (\vec{I}_a - \vec{I}_b)$$

### Meter Phasor

Phase	V(p-p)	V $\phi$	I(x-y)	I $\phi$
AB	240	0	Ia-Ib	0



The 2S is the most widely used meter in the US.