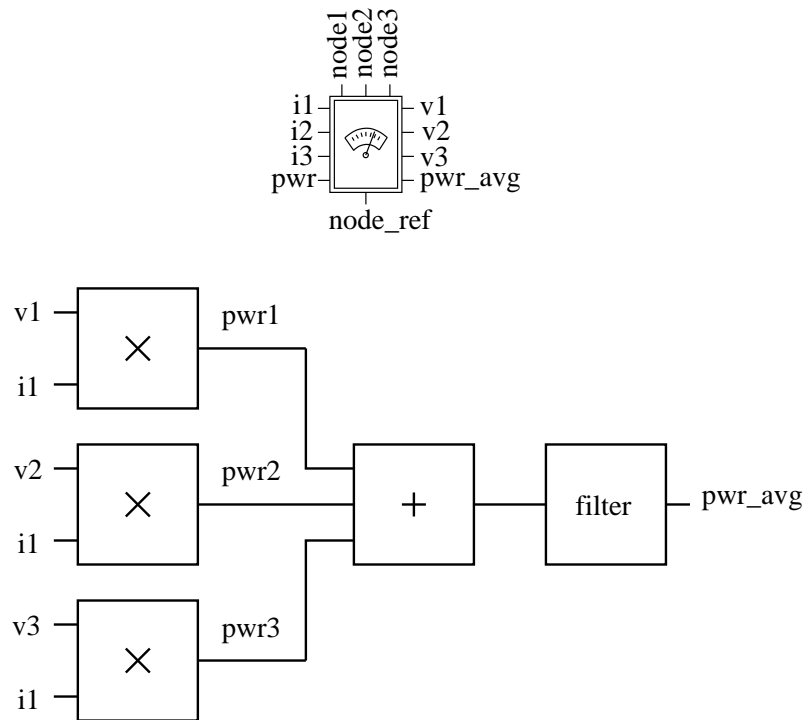


## power\_meter\_3p.gme



### Attributes

```
mainnodes_anlg: node1 node2 node3 node_ref
main_var:
+ v1 i1
+ v2 i2
+ v3 i3
+ pwr pwr_avg
rparms: f0=5
```

### Description

`power_meter_3p.gme` is meant for measuring the instantaneous and average powers for a 3-phase circuit. The currents through the three branches (`i1`, `i2`, `i3`) are to be supplied externally to the element as general variables. The instantaneous and average powers are computed as shown in the figure. A 5<sup>th</sup> order Butterworth filter is used, the parameter `f0` specifying the cut-off frequency of the filter.

Apart from the powers, the voltages  $v1=v(\text{node1})-v(\text{node\_ref})$ ,  $v2=v(\text{node2})-v(\text{node\_ref})$ ,  $v3=v(\text{node3})-v(\text{node\_ref})$  are also made available as general variables.

AC behaviour is not implemented.