



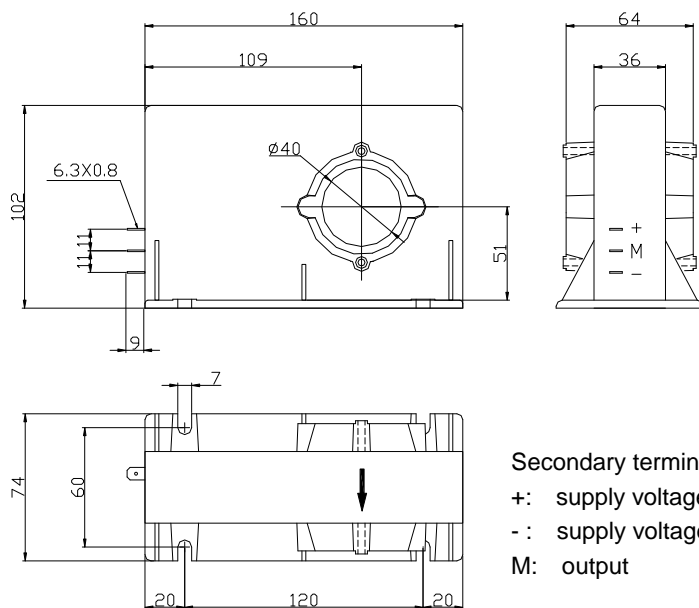
SENSOR Module CHB-1000S

$I_N = 1000A$

Specifications: Closed loop Hall current sensor, Nominal current 1000A RMS for measuring of currents: AC, DC, pulsed...

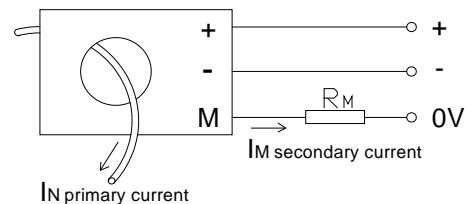
| | | | |
|-----------|--|---|---|
| | Type | CHB-1000S | |
| I_N | Nominal current (RMS) | 1000A | |
| I_P | Measuring range (I_{P-P}) | 0...±1500A | |
| R_M | Measuring resistance | R_M min | R_M max |
| | | ($V_c = \pm 15V$) | 20Ω (at 1000A or 1500A) 20Ω (at 1000A); 5Ω (at 1500A) |
| | | ($V_c = \pm 24V$) | 10Ω (at 1000A or 1500A) 30Ω (at 1000A); 20Ω (at 1500A) |
| I_M | Output current | Nominal output current 200mA, for primary nominal current $I_N = 1000A$ | |
| X | Accuracy ($T_a = +25^\circ C$) | $I_N \pm 0.5\%$ | |
| K_N | Turns ratio | 1:5000 | |
| V_c | Supply voltage | $\pm 15...24V (\pm 5\%)$ | |
| V_i | Isolation voltage | Between primary and secondary circuit: 6KV RMS/50Hz/1min. | |
| I_{off} | Offset current ($T_a = +25^\circ C$) | $\pm 0.3mA$ max, for primary current $I_N = 0$ | |
| T_d | Temperature drift | I_M of 0.01%/°C (-25°C...+85°C) | |
| L | Linearity | < 0.1% | |
| T_r | Response time | < 1μS | |
| | | $di/dt > 50A/\mu S$ | |
| f | Frequency bandwidth | 0...100KHz | |
| T_a | Operating temperature | -25°C...+85°C | |
| T_s | Storage temperature | -40°C...+90°C | |
| I_c | Current consumption | 25mA+ I_M (Output current) | |
| R_s | Secondary resistance | 40Ω ($T_a = +70^\circ C$) | |
| R_N | Primary resistance | ----- | |
| W | Weight | 900g | |

Dimensions (mm):



Secondary terminals:
 +: supply voltage +15...24V
 -: supply voltage -15...24V
 M: output

Connection:



Output I_M is positive when the primary current flows in the direction of the arrow.

SENSOR Module is a Hall current sensor for the electronic measurement of current with a galvanic isolation between the primary and secondary circuits.
 By WeChat for more information →





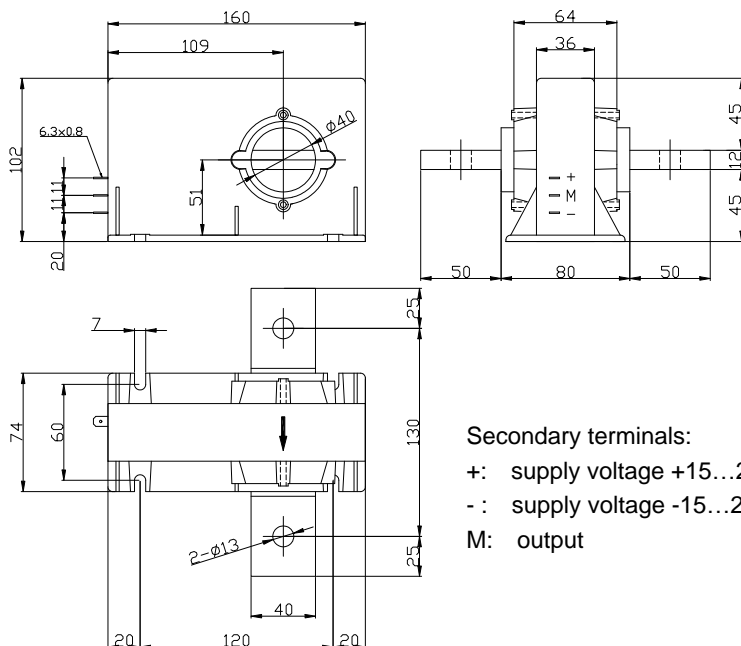
SENSOR Module CHB-1000T

$I_N = 1000A$

Specifications: Closed loop Hall current sensor, Nominal current 1000A RMS for measuring of currents: AC, DC, pulsed...

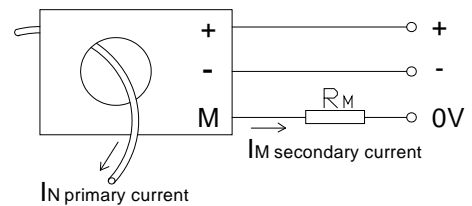
| | | | |
|-----------|--|---|---|
| | Type | CHB-1000T | |
| I_N | Nominal current (RMS) | 1000A | |
| I_P | Measuring range (I_{P-P}) | 0...±1500A | |
| R_M | Measuring resistance | R_M min | R_M max |
| | | ($V_c = \pm 15V$) | 20Ω (at 1000A or 1500A) 20Ω (at 1000A); 5Ω (at 1500A) |
| | | ($V_c = \pm 24V$) | 10Ω (at 1000A or 1500A) 30Ω (at 1000A); 20Ω (at 1500A) |
| I_M | Output current | Nominal output current 200mA, for primary nominal current $I_N = 1000A$ | |
| X | Accuracy ($T_a = +25^\circ C$) | $I_N \pm 0.5\%$ | |
| K_N | Turns ratio | 1:5000 | |
| V_c | Supply voltage | $\pm 15...24V (\pm 5\%)$ | |
| V_i | Isolation voltage | Between primary and secondary circuit: 6KV RMS/50Hz/1min. | |
| I_{off} | Offset current ($T_a = +25^\circ C$) | $\pm 0.3mA$ max, for primary current $I_N = 0$ | |
| T_d | Temperature drift | I_M of 0.01%/°C (-25°C...+85°C) | |
| L | Linearity | < 0.1% | |
| T_r | Response time | < 1μS | |
| | di/dt | > 50A/μS | |
| f | Frequency bandwidth | 0...100KHz | |
| T_a | Operating temperature | -25°C...+85°C | |
| T_s | Storage temperature | -40°C...+90°C | |
| I_c | Current consumption | 25mA+ I_M (Output current) | |
| R_s | Secondary resistance | 40Ω ($T_a = +70^\circ C$) | |
| R_N | Primary resistance | ----- | |
| W | Weight | 2190g | |

Dimensions (mm):



Secondary terminals:
 +: supply voltage +15...24V
 -: supply voltage -15...24V
 M: output

Connection:



Output I_M is positive when the primary current flows in the direction of the arrow.

SENSOR Module is a Hall current sensor for the electronic measurement of current with a galvanic isolation between the primary and secondary circuits.
 By WeChat for more information →

