



When interruption is unacceptable

Measurement characteristics

Primary rated current I _N (bipolar DC or AC)	Up to 4kA (see rating plate on MH)	
Overload, continuously	1.25pu	
Overload, non-saturating	3pu	(max. 5s)
Overload transient, measurable	6pu	(30ms)
Dynamic peak current	50kA	
Time to saturation for dynamic peak current >3pu	2050ms (indicated by "output valid" contact)	
Rated output voltage (at 1pu)	2V	(see rating plate on EM)
Output signal clipping level (with $1k\Omega$ load)	12.5V	(max. 14V unloaded)
Output load current	10mA	
Output ripple (rms)	1mV	(observed for 010kHz)
Accuracy for DC/AC (see notes 1 4)	0.05%	(at 1.25pu)
Bandwidth, -3dB (see note 2)	10kHz	
Tracking error (see note 3)	15µs	
AC-amplitude error (see note 4)	0.4•f² (%)	(f in kHz)
Phase error (see note 3)	5.4•f (°)	(f in kHz)
Step response rise/fall time (see note 5)	< 100µs	(to reach 90% level)
Step response settling time (see note 5)	< 1ms	(for error within 1%)
Output slewing rate	> 1V/µs	(feature of applied Op-Amp)

Measurement characteristics (HB)

Primary rated current I_N (bipolar DC or AC)	According rating plate (bipolar DC or AC)
Overload, continuously	1.25pu
Overload measurable	2pu (max. crest value AC: 3pu)
Overload transient, non-saturating internally	6pu (30ms)
Dynamic peak current	50kA (max.)
Time to saturation for dynamic peak current >3pu	3050ms (indicated by "output valid" contact)
Output transfer ratio	200mA (at I _p =6000A)
Output signal clipping level (with 12Ω load)	300mA (max. 320mA with 0Ω)
Output compliance voltage	3.6V (peak)
Output ripple and noise (rms)	≤ 0.1% (of nominal output current)
DC-offset	≤ 0.02% (of nominal output current)
DC-accuracy (up to 2pu)	≤ 0.1% (of actual current)
Bandwidth, -3dB (see note 1)	DC30kHz
AC-amplitude error (see note 2)	0.2•f² (%) (f in kHz)
Step response rise/fall time (see note 3)	< 10µs (from 10% to 90% level)
Tracking delay time (see note 3)	< 5µs
Step response settling time (see note 3)	< 20µs (for error within 10%)
Step response settling time (see note 3)	< 1ms (for error within 1%)
Output slewing rate	> 20A/ms