



SENSOR Module CHV-*KV

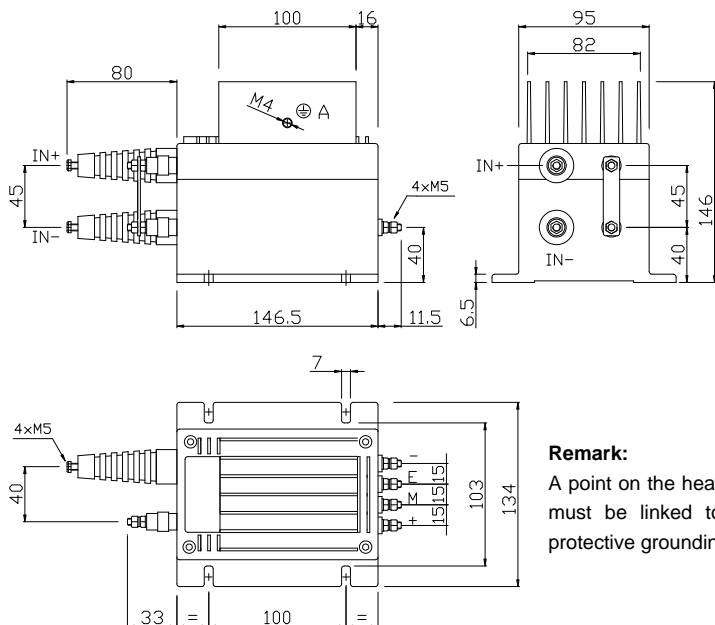
$V_N = 6...9KV$

Specifications: Closed loop Hall voltage sensor, Nominal voltage 6000...9000V RMS for measuring of voltage: AC, DC, pulsed

Type	CHV-6KV	CHV-7KV	CHV-8KV	CHV-9KV
V_N	Nominal voltage (RMS)			
V_P	Measuring range			
R_M	R_M min		R_M max	
	(Vc = ±15V)		65Ω (at V_N or V_P)	
	(Vc = ±24V)		125Ω (at V_N or V_P)	
I_M	Output current			
K_N	Turns ratio			
X	Accuracy			
Vc	Supply voltage			
V_i	Isolation voltage			
I_{off}	Offset current			
Td	Temperature drift			
L	Linearity			
Tr	Response time			
f	Frequency bandwidth			
Ta	Operating temperature			
Ts	Storage temperature			
I_c	Current consumption			
R_s	Secondary resistance			
R_N	Primary resistance			
W	Weight			

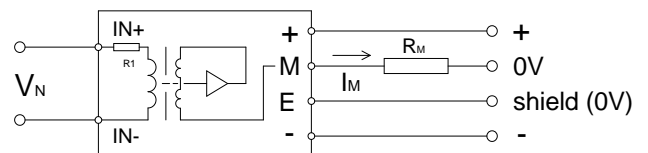
Dimensions (mm):

General tolerance: ±1mm



Remark:
A point on the heat sink must be linked to the protective grounding.

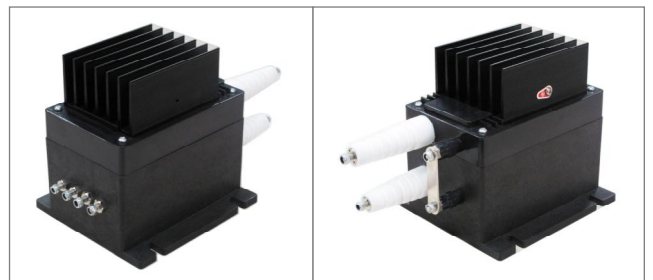
Connection:



Connection:

IN+: input positive voltage
IN-: input negative voltage
*...Nominal voltage

+ : supply voltage +15...24V
M : output
E : shield (0V)
- : supply voltage -15...24V



1. Output I_M is positive, when a positive voltage V_N is applied to the terminal IN+.
2. The sensor is directly connected to the primary voltage V_N by the terminals IN+ and IN- (R1 is built into the sensor.)
3. A voltage output V_M is obtained by connecting a resistor R_M between M and 0V.

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SENSOR Module CHV-10KV

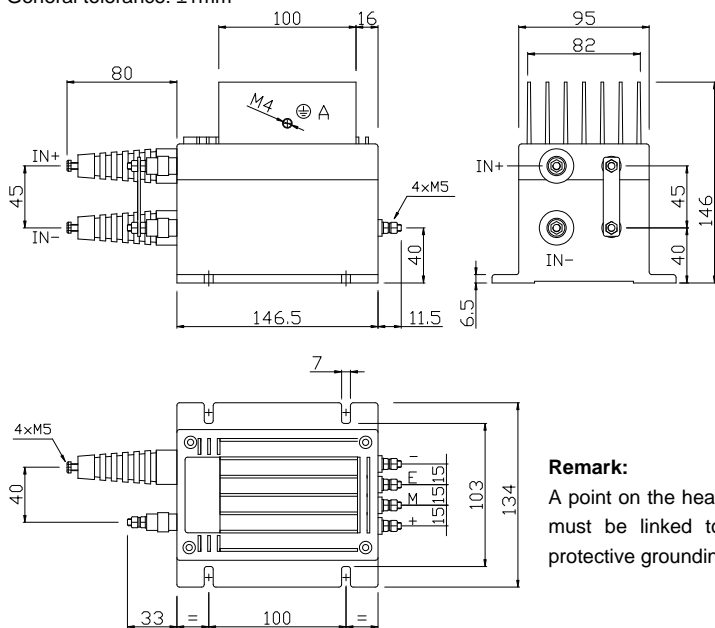
$V_N = 10KV$

Specifications: Closed loop Hall voltage sensor, Nominal voltage 10000V RMS for measuring of voltage: AC, DC, pulsed

	Type	CHV-10KV		
V_N	Nominal voltage (RMS)	10000V		
V_P	Measuring range	0...±15000V		
R_M	Measuring resistance	R_M min	R_M max	
		($V_c = ±15V$)	30Ω (at V_N or V_P)	65Ω (at V_N or V_P)
		($V_c = ±24V$)	60Ω (at V_N or V_P)	125Ω (at V_N or V_P)
I_M	Output current	Nominal output current 80mA, for primary nominal voltage V_N		
K_N	Turns ratio	160000:2000		
X	Accuracy	$V_N ± 0.5%$ ($T_a = +25°C$)		
V_c	Supply voltage	±15...24V (±5%)		
V_i	Isolation voltage	Between primary and secondary circuit: 20KV RMS/50Hz/1min.		
I_{off}	Offset current	±0.3mA max, for primary voltage $V_N = 0$ ($T_a = +25°C$)		
T_d	Temperature drift	I_M of 0.05%/°C (-25°C...+70°C)		
L	Linearity	0.1%		
T_r	Response time	500μS		
f	Frequency bandwidth		
T_a	Operating temperature	-25°C...+70°C		
T_s	Storage temperature	-40°C...+85°C		
I_c	Current consumption	80mA+ I_M (Output current)		
R_s	Secondary resistance	36Ω ($T_a = +70°C$)		
R_N	Primary resistance	85KΩ+R1 (Build in resistor) ($T_a = +70°C$)		
W	Weight	2.5Kg		

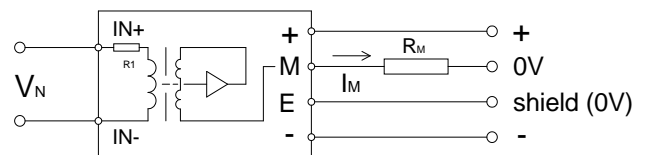
Dimensions (mm):

General tolerance: ±1mm



Remark:
A point on the heat sink must be linked to the protective grounding.

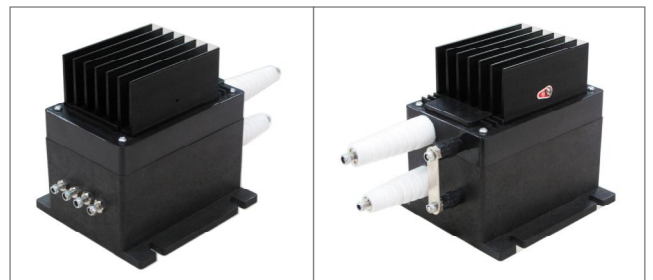
Connection:



Connection:

IN+: input positive voltage
IN-: input negative voltage
*...Nominal voltage

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



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