



DATA SHEET

Hall Effect Voltage Sensor

PN: CHV_AV5S20

IPN=200~1000V

Feature

- Closed-loop (compensated) voltage transducer
- Capable measurement of DC and AC voltage with galvanic isolation between primary circuit and secondary circuit.

Advantages

- High accuracy
- Easy installation
- Low temperature drift
- High immunity to external interference
- Very good linearity
- Can be customized

Applications

- Voltage detection of power distribution cabinet
- AC/DC variable-speed drive
- Uninterruptible Power Supplies (UPS)
- Switched Mode Power Supplies (SMPS)



RoHS

Electrical data: (Ta=25°C, Vc= +5VDC)

Parameter	Ref	CHV200 AV5S20	CHV400 AV5S20	CHV600 AV5S20	CHV800 AV5S20	CHV1000 AV5S20
Rated input voltage Vpn(V)		200	400	600	800	1000
Measuring range Vp(V)		0 ~ +280	0 ~ +360	0 ~ +840	0 ~ +1120	0 ~ +1400
Turns ratio Np/NS (T)		1000	1000	1000	1000	1000
Secondary coil resistance RS (Ω)		60	60	60	60	60
Output current IS(mA)		+20*VP/VPN				
Inside resistance RM (Ω)		【(VC-0.5)/IS*0.001】 -RS				
Supply voltage VC(V)		+5.0 ±5%				
Accuracy XG(%)		@IPN,T=25°C			< ±0.5	
Offset current IOE(mA)		@IP=0,T=25°C			< +0.2	
Temperature variation of IOE IOT(mA/°C)		@IP=0,-40 ~ +85°C			< ±0.5	
Linearity error εr(%FS)					< 0.2	
Response time tra(μs)		@90% of IPN			<40.0	
Power consumption IC(mA)					15+Is	



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Insulation voltage Vd(KV)	@50/60Hz, 1min,AC	2.5
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General data:

Parameter	Value
Operating temperature TA(°C)	-40 ~ +85
Storage temperature TS(°C)	-55~ +125
Mass M(g)	50
Plastic material	PBT G30/G15, UL94- V0;
Standards	IEC60950-1:2001 EN50178:1998 SJ20790-2000

Dimensions(mm):

	Connection
	General tolerance General tolerance:< ±0.5mm Size of Primary pin: DG301-5.0-02P; Secondary pin:DG301-5.0-04P

Remarks:

- When the current goes through the primary pin of a sensor, the voltage will be measured at the output end.
- Custom design is available for the different rated input current and the output voltage.

WARNING : Incorrect wiring may cause damage to the sensor.

