

Current Transducers NNC-920 .. 960A

For the electronic measurement of currents : DC, AC, pulsed, mixed, with a galvanic isolation between the primary circuit (high power) and the secondary circuit (electronic circuit).

$$I_{PN} = 2000 \dots 6000 \text{ A}$$



Electrical data

Primary nominal r.m.s. current I_{PN} (A)	Primary current measuring range I_P (A)	Type
2000	± 2200	NNC - 920A
3000	± 3300	NNC - 930A
4000	± 4400	NNC - 940A
5000	± 5500	NNC - 950A
6000	± 6600	NNC - 960A

V_C	Supply voltage ($\pm 5\%$)	± 15	V
I_C	Current consumption	$< \pm 25$	mA
V_d	R.m.s. voltage for AC isolation test, 50/60Hz, 1 mn	2.5	kV
V_b	R.m.s. rated voltage, safe separation		500
R_{IS}	Isolation resistance @ 500 VDC	> 1000	M Ω
V_{OUT}	Output voltage @ $\pm I_{PN}$, $R_L = 10 \text{ k}\Omega$, $T_A = 25^\circ\text{C}$	± 10	V
R_{OUT}	Output internal resistance	100	Ω
R_L	Load resistance	10	k Ω

Features

- Hall effect measuring principle
- Galvanic isolation between primary and secondary circuit
- Isolation voltage 3000 V~
- Low power consumption

Advantages

- Easy mounting
- Space saving
- High immunity to external interference.

Applications

- AC variable speed drives
- Battery supplied applications
- Uninterruptible Power Supplies (UPS)

Accuracy - Dynamic performance data

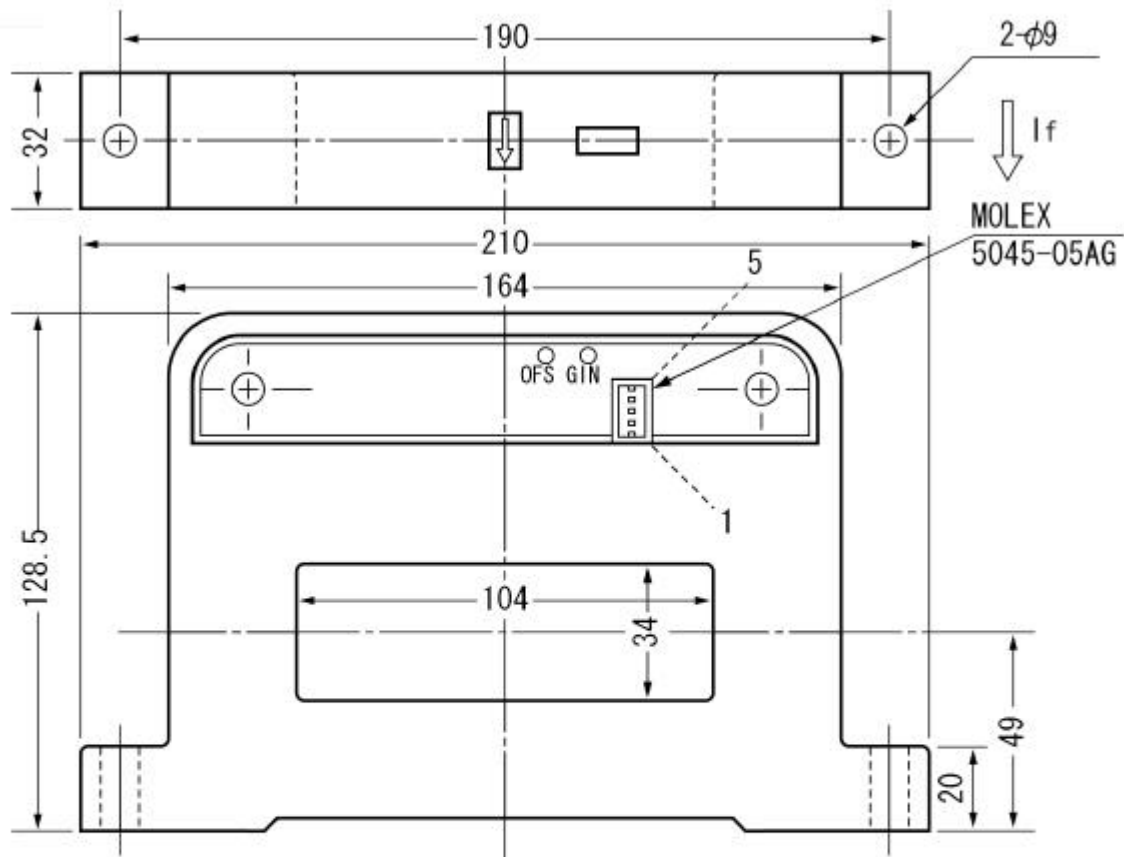
X_G	Accuracy @ $T_A = 25^\circ\text{C}$	$< \pm 1$	% of I_{PN}
e_L	Linearity ($0 \dots \pm I_{PN}$)	$< \pm 1$	% of I_{PN}
V_{OE}	Electrical offset voltage, $T_A = 25^\circ\text{C}$	$< \pm 50$	mV
V_{OH}	Hysteresis offset voltage @ $I_P = 0$; after an excursion of $1 \times I_{PN}$	$< \pm 50$	mV
V_{OT}	Thermal drift of V_{OE}	$< \pm 1$	mV/ $^\circ\text{C}$
Tce_G	Thermal drift of the gain (% of reading)	$< \pm 0.1$	%/ $^\circ\text{C}$
t_r	Response time @ 90% of I_P	< 25	μs

General data

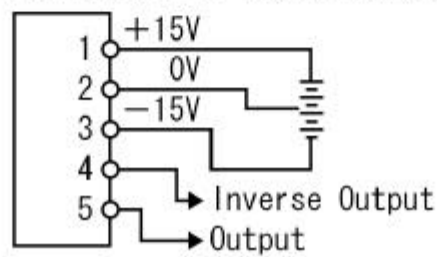
T_A	Ambient operating temperature	- 10 .. + 60	$^\circ\text{C}$
T_S	Ambient storage temperature	- 15 .. + 65	$^\circ\text{C}$
m	Mass	1.4	kg

Notes : Linearity data exclude the electrical offset.

NNC-920 .. 960A



Connector Pin Identification



UNIT: mm