Current Transducer NNC-920..960A

I_{PN} = 2000..6000 A

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).

Electrical data

Primary D.C. current I_{PN} (A)	Primary current measuring range I_P (A)	Type
2000	± 2300	**NNC-920A 2000A-10V**
3000	± 3400	**NNC-930A 3000A-10V**
4000	± 4500	**NNC-940A 4000A-10V**
5000	± 5600	**NNC-950A 5000A-10V**
6000	± 6600	**NNC-960A 6000A-10V**

V_C	Supply voltage (±5 %)	±15	V
I_C	Current consumption	<±30	mA
V_d	R.m.s. voltage for AC isolation test, 50/60 Hz, 1 mn	2.5	kV
R_{IS}	Isolation resistance @ 500 VDC	>500	MΩ
V_{OUT}	Output voltage @ ± I_{PN}, R_L = 10 kΩ, T_A = 25°C	±10	V
R_L	Load resistance	10	kΩ

Accuracy - Dynamic performance data

X	Accuracy @ I_{PN}, T_A = 25°C (without offset)	<±1	% of I_{PN}
ε_L	Linearity (0 .. ± I_{PN})	<±1	% of I_{PN}
V_{OE}	Electrical offset voltage, T_A = 25°C	<±50	mV
V_{OH}	Hysteresis offset voltage @ I_P = 0; after an excursion of 1 x I_{PN}	<±70	mV
V_{OT}	Thermal drift of V_{OE}	<±2	mV/K
$TC\varepsilon_G$	Thermal drift (% of reading)	<±0.1	%/K
t_r	Response time @ 90% of I_P	<25	µs

General data

T_A	Ambient operating temperature	-10 .. +50	°C
T_S	Ambient storage temperature	-15 .. +60	°C
m	Mass	1.7	Kg

Notes :

Features

- Hall effect measuring principle
- Galvanic isolation between primary and secondary circuit
- Isolation voltage 2500V
- Low power consumption

Advantages

- Easy to mount
- Small size and space saving
- Large-current application
- High immunity to external interference.

Applications

- AC variable speed drives
- Uninterruptible Power Supplies (UPS)
- Battery supplied applications
- Power supplies for welding applications, cable TV, communication devices
- Commutator power supplies
- Electric transmission

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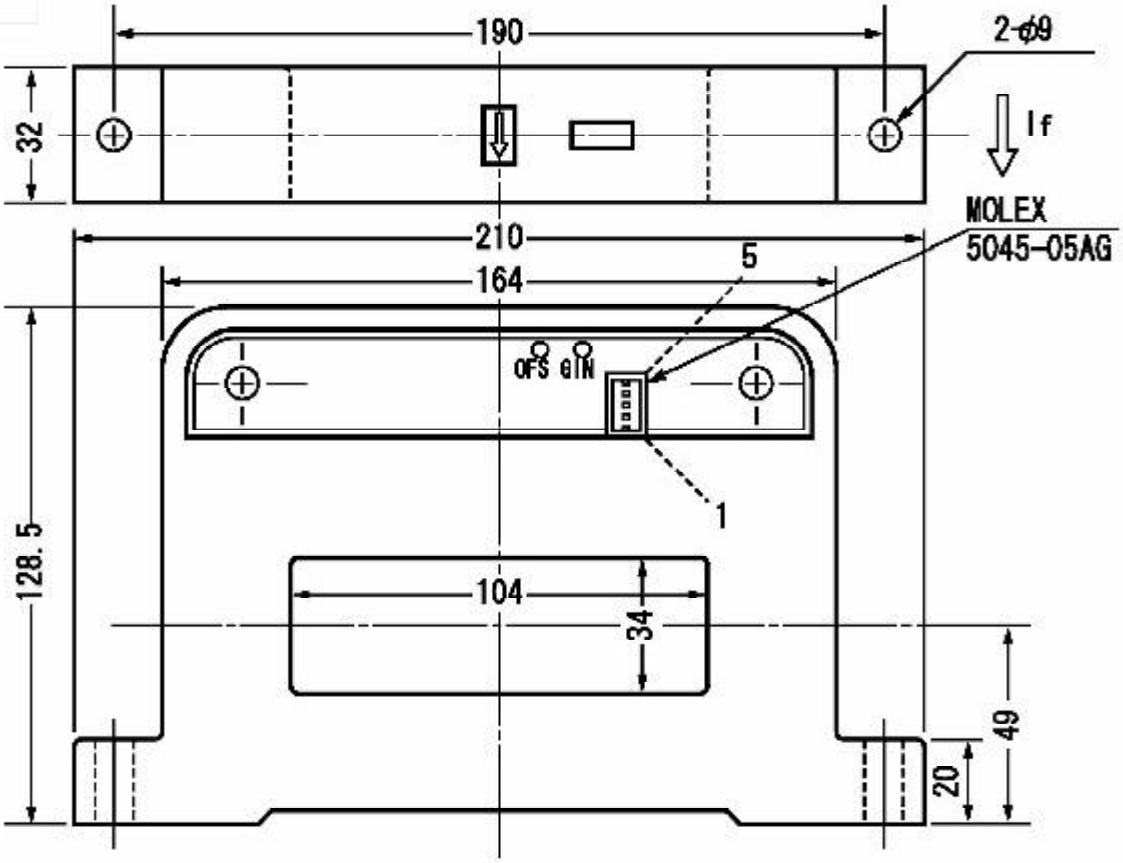
NNC-920..960A
Dimensions (in mm)



Connector Pin Identification