

Current Transducer HNC-40CA 400A-100mA

$$I_{PN} = 400 \text{ A}$$

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

I_{PN}	Primary nominal current	400	A
I_P	Primary current measuring range	0 .. ± 800	A
R_M	Measuring resistance	20	Ω
I_{SN}	Secondary nominal r.m.s. current	100	mA
K_N	Conversion ratio	1 : 4000	
V_C	Supply voltage ($\pm 5\%$)	± 15	V
I_C	Current consumption	$20 \pm I_{SN}$	mA
V_d	R.m.s. voltage for AC isolation test, 50Hz, 1mn	2	kV

Accuracy-Dynamic performance data

X	Accuracy @ $I_{PN}, T_A = 25^\circ\text{C}$	$< \pm 1$	% of I_{PN}
e_L	Linearity ($0 \dots \pm I_{PN}$)	$< \pm 0.5$	% of I_{PN}
I_O	Electrical offset current @ $I_P = 0, T_A = 25^\circ\text{C}$	± 0.5	mA
I_{OH}	Hysteresis offset current @ $I_P = 0$; after an excursion of $1 \times I_{PN}$	± 0.6	mA
I_{OT}	Thermal drift of I_O 0 .. $+70^\circ\text{C}$	< 0.03	mA/K
TCE_G	Thermal drift of the gain	$< \pm 0.04$	%/K
t_r	Response time @ 90% of $I_{P\text{MAX}}$	< 3	μs

General data

T_A	Ambient operating temperature	- 10 .. + 80	$^\circ\text{C}$
T_S	Ambient storage temperature	- 15 .. + 85	$^\circ\text{C}$
R_S	Secondary coil resistance @ $T_A = 25^\circ\text{C}$	30	Ω
m	Mass	310	g

Features

- Hall effect measuring principle
- Panel mount type

Advantages

- Excellent accuracy
- Very good linearity
- Low temperature drift
- Optimized response time
- Wide frequency bandwidth
- Small size and space saving
- High immunity to external interference

Applications

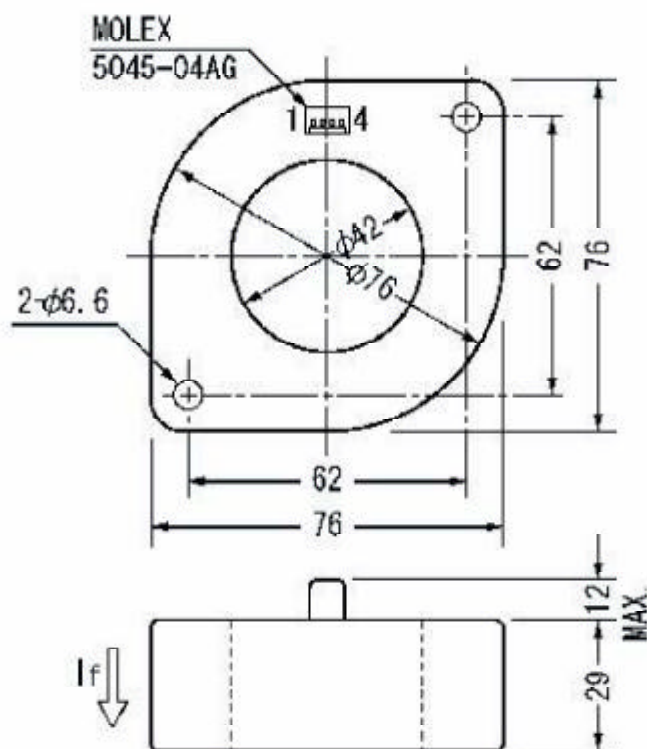
- DC motor drives
- Switched Mode Power Supplies (SMPS)
- AC variable speed drives
- Uninterruptible Power Supplies (UPS)
- Battery supplied applications
- Power supplies for welding applications

Notes :

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HNC-40CA 400A-100mA

Dimensions (in mm)



Connector Pin Identification

