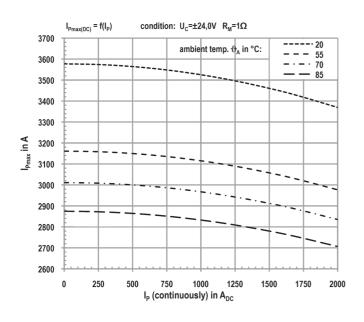
CLOSED LOOP CURRENT SENSOR FOR 1,700 A_{rms}

PRECISION FOR HIGH POWER APPLICATIONS – MOST COMPACT CLOSED-LOOP CURRENT SENSOR FOR NOMINAL DC AND AC CURRENTS ABOVE 1,000 A

VACUUMSCHMELZE developed the first ultra compact current sensor with high accuracy for continuous current up to $I_{PN} = 1,700 \text{ A}$ using MOSFET Class D output stage enabling higher compensation currents with lower power losses compared to linear output stages. The lower heat generation enables a high nominal current and a wide measuring range in extremely compact size.

The measuring range up to 3,400 Å @ 20 °C ambient temperature with an accuracy of 0.3 % @ $I_{\rm PN}$ is combined with a very compact size and attractive price compared to any other available sensor on the market in this power class. The sensors can often replace the oversized sensors with 2,000 Å $I_{\rm PN}$ leading to a space-optimized and up to 50 % more cost-effective solution.

MEASURING RANGE I_{Pmax} depending on the primary continuous current I_{PN}

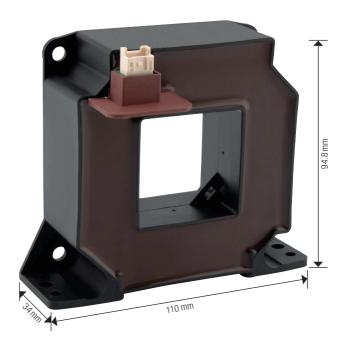


ADVANTAGES OF T60404-P4640-X256

- High I_{PN} of 1,700 A in compact design
- Wide measurement range of 3,400 A
- Low offset (0.1 mA) and low temperature drift (0.1 %)
- Excellent long-term stability
- Superior dynamic properties (rise time and response time < 0.5 μs)
- Low current consumption (31 mA + compensation current)

TYPICAL APPLICATIONS FOR T60404-P4640-X256

- Drives
- Photovoltaic central inverters
- Power supplies
- Welding equipment
- Wind generators



ADVANCED MAGNETIC SOLUTIONS



VACUUMSCHMELZE GMBH & CO. KG

Grüner Weg 37 D 63450 Hanau / Germany Phone +49 6181 38 0 Fax +49 6181 38 2645 info@vacuumschmelze.com www.vacuumschmelze.com

VACUUMSCHMELZE CHINA MAGNETICS

Shanghai Sales Office Room 06, 19F Zhongrong Hengrui International Plaza 620 Zhangyang Road, Pudong District Shanghai, PRC 200122 Phone +86 21 58 31 98 37 Fax +86 21 58 31 99 37 vac_china@vacuumschmelze.com

VAC MAGNETICS LLC

2935 Dolphin Drive Suite 103 Elizabethtown, KY 42701 Phone +1 270769 1333 Fax +1 270769 3118 info-usa@vacmagnetics.com

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