

ABS APPROVED TRANSFORMERS

Pioneer transformers tested and approved by the American Bureau of Shipping

Our transformers have certification from the American Bureau of Shipping (ABS) for use in the rigorous conditions that are found on marine vessels and off-shore oil rigs. This Product Design Assessment (PDA) is to assure end users that products will work as intended when installed on an ABS classed vessel, MODU or facility.

Approval is based on verification that the product complies with manufacturers' specifications, applicable ABS Rules and national or international standards. Our products meet ABS requirements as shown through provided drawings, tests and documentation, including our UL approvals.

Applications

- Commercial ships
- Military ships
- Offshore and near shore oil rigs
- Tankers
- Other marine situations

Standards

- National
UL 506, 12th Ed., UL 1561, 3rd Ed; 1979 ANSI/IEEE C57.12.91
UL 5085
- International
CSA C22.2 No.47-M90, No. 66-1988
CAN/CSA C22.2 No. 66.1-06, C22.2 No. 213-M1987
ANSI/ISA 12.12.01, 2013

Certificate Number

- 16-HS1528482-PDA



Included transformers

- All models in NEMA 3R enclosures
- Single- and 3-Phase encapsulated
0.05 to 75 kVA
- Single-Phase ventilated
15 to 667 kVA
- 3-Phase ventilated
15 to 1,000 kVA
- Single- and 3-Phase autotransformers

See other side for details

ABS APPROVED TRANSFORMERS

Certificate details

- Certificate 16-HS1528482-PDA,
- This is an edited version of the Certificate. For full report, see our website.

Approved models

- Series 411, 413, 415, 416, 511, 513, 516, 421, 423, 424, 521, 523, 524 & 425

Ratings

■ General Purpose Encapsulated Transformers

Series: 411/511, 413/513 & 416/516

- 1-Phase: 0.050 to 1 kVA
- 1-Phase: 1.5 to 50 kVA
- 3-Phase: 0.5 kVA to 75 kVA
- Temperature Rise 95°C, 135°C
- Power: 600 V Max. 50/60 Hz
- 180 °C Insulation Class

■ General Purpose Transformers

Series: 421/521, 423/523 & 424/524

- 1-Phase: 15 kVA to 667 kVA,
- 3-Phase: 15 kVA to 1000 kVA,
- Temperature Rise: 140°C, 115°C, 80°C
- Power: 600 V Class, 50/60 Hz (15 - 500 kVA),
- 60 Hz (501-1,000 kVA)
- 220 °C Insulation Class

■ Auto Transformers

Series: 415/425

- 1 or 3-Phase Auto kVA: 0.5 to 300 kVA
- 1 or 3-Phase Equivalent isolation kVA: 0.50 kVA to 1,000 kVA
- Temperature Rise: 140°C, 115°C, 80°C
- Power: 600 V Max, 60 Hz

■ General Purpose Transformers, Class I Division 2

Series: 411, 413, 416, 511, 513 & 516

- 10 kVA or less suitable for Class I Division 2,
- Groups A,B,C and D Hazardous Locations

Service Restrictions

- Unit certification is required for transformers utilized in essential services or emergency services as per 4-8-3/7.3.5 of the Steel Vessel Rules
- Transformers 10 kVA/phase and over can be provided with anti-condensation heaters installed inside the transformer compartment and energized at full heater voltage from a suitable external source throughout the standby period as per 4-8-3/7.3.4
- Enclosure protections is to be in accordance with 4-8-3/Table 2 of the SV Rules and 4-3-3/Table 1 of the MODU Rules
- Ambient temperature rating is to be included on the nameplate

Comment

- Pioneer has provided a declaration about the control of, or the lack of asbestos in this product