



Certificate of Compliance

FIRE PROTECTION EQUIPMENT

This certificate is issued for the following equipment:

Less or Nonflammable liquid-Insulated Substation and Pad-Mounted Three Phase and Single Phase Transformers

Approval Guide Listing: Category:

Electrical Equipment - Less or Non-Flammable Liquid Insulated Transformers

WEG Transformers USA
One Pauwels Drive
Washington MO 63090
United States

This certifies that the equipment described has been found to comply with the applicable requirements, as stated in the Approval Report(s), of the following FM Approval Standards and other documents:

<i>Approval Standards</i>	<i>Date</i>	<i>Other Standards</i>	<i>Date</i>
<i>Class Number</i>		<i>Organization, Designation</i>	
3990	January 2018	IEEE C57.12.00	2015
		IEEE C57.12.90	2015

Original Approval Job Identification: PR449654

Approval Granted: 27 February 2020

Related Report: None

Subsequent Revisions: None

To verify the availability of the Approved product, please refer to www.approvalguide.com


J. E. Marquedant
VP, Manager of Electrical Systems
FM Approvals
1151 Boston-Providence Turnpike,
Norwood MA, 02062 USA

27 February 2020

Date



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Distribution Transformers, Oil Immersed (Envirotemp® FR3™), 45kVA to 3000kVA, KNAN, System Voltages up to 34.5 kV

SPECIFIED DATA	UNITS/OTHER	DATA SHOWN PER UNIT QUANTITY
Phase	Φ	3
Frequency	Hz	60
Location		Indoor/Outdoor
Parallel Operation		Yes
Type of Load		Various
Type of Supply (Utility, Generator)		Utility
Transformer Class / Design Standard		Distribution, ANSI/IEEE C57.12.00
KVA Rating	KVA	45 -3000
Cooling Method		KNAN
Cooling Fluid		Envirotemp® FR3™ less flammable transformer fluid
Fans		No
Vector Group		Dyn1, Dyn11, YNyn0, Yy0, Dd0, Yd1 or others
Primary Voltage	kV	Up to 34.5
Taps	Yes	5, off load tap changer, 2.5% or 5%
Secondary Voltage	V	Up to 690/398
Neutral		Solid/Floating Ground
Primary Connection		Delta/Wye
Secondary Connection		Wye/Delta
Secondary Accessible Neutral		Yes
Primary BIL Level	kV	150 or below
Secondary BIL Level	kV	30 or below
Neutral BIL Level	kV	N/A
Temperature Rise Winding	°C	65 °C (can vary by customer request)
Temperature Rise Insulation	°C	65 °C (can vary by customer request)
Cover		Bolted or welded
Cover thickness	in	1/4
Tank thickness walls	gauge	7



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Tank thickness ventilation	gauge	18
Impedances Base MVA (Primary to Secondary)	%	2-7
Pressure Relief Devices (PRD)		Yes
Liquid Level Gages (LLG)		Yes
Liquid Temperature Gages (LTG)		Yes
Sudden Pressure Relief Device (SPD)		N/A
Pressure Vacuum Gages (PVG)		N/A
Fuses		External (defined by AHJ/installer) Integrated internal fuses installed
Circuit Breakers		External (defined by AHJ/installer)
Current Transformers		External, Type CMV, 3000Amp



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