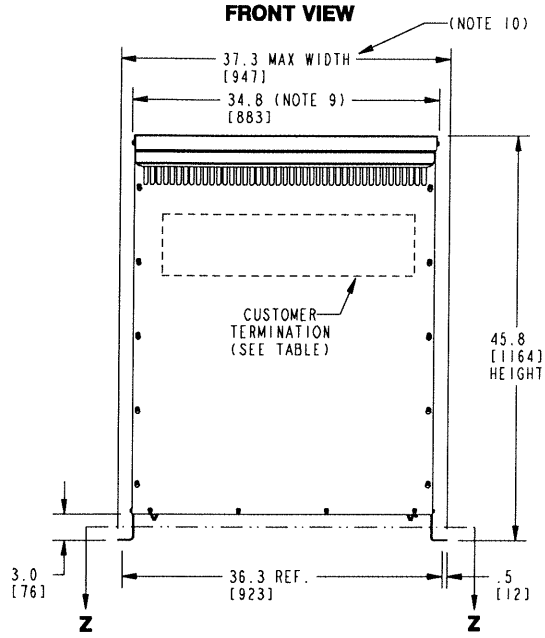
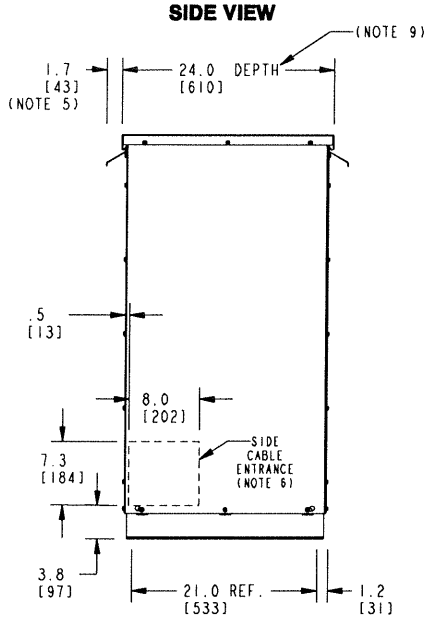
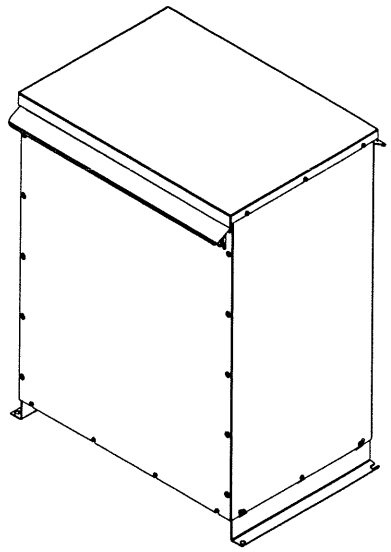
FRONT VIEW

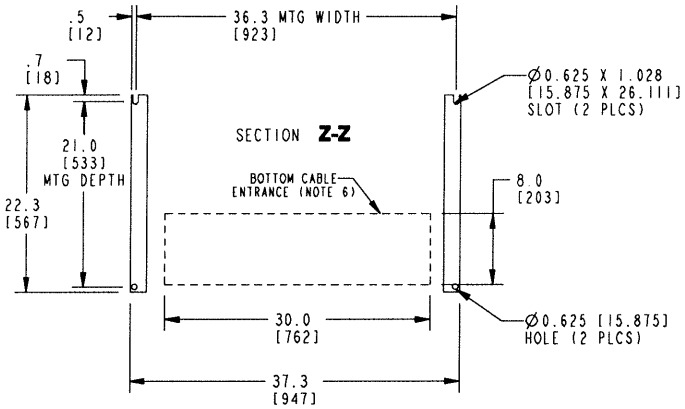


SIDE VIEW



ISOMETRIC VIEW





BOTTOM VIEW OF MOUNTING AND CABLE ENTRANCE

CUSTOMER TERMINATION			
LOCATION	**CONNECTION TYPE**	**HOLE SIZE**	**HOLE QTY**
PRIMARY BUS BARS	**STANDARD BUS BAR (LUGS ARE OPTIONAL)**	**.41 [10.3] DIA**	**2 PER BUS BAR**
SECONDARY BUS BARS			

APPROX TOTAL WEIGHT LBS [KG]

PAINTED:	**1030 [467]**
STAINLESS STEEL:	**1050 [476]**

kVA RATING:	150
K-FACTOR:	K1
PRI VOLTAGE:	480
SEC VOLTAGE:	208Y/120
FREQ (Hz):	60 Hz
TEMP RISE:	150C
WINDING MATL:	Aluminum
ES SHIELD:	NO
SOUND LVL (dB):	Std

NOTES:

1) ALL UNITS ARE UL LISTED AND ARE DESIGNED PER NEMA ST-20 STANDARDS.
2) THE TEMPERATURE RISE LISTED WAS DETERMINED WHEN THE TRANSFORMER WAS MOUNTED IN A STANDARD NEMA-2 ENCLOSURE.
3) TRANSFORMER IS DESIGNED FOR FLOOR MOUNTING. OPTIONAL WALL MOUNTING BRACKETS ARE AVAILABLE.
4) TRANSFORMER IS DRY TYPE, CLASS AA, WITH VENTILATED ENCLOSURE FOR INDOOR USE. OPTIONAL RAINSHIELD KITS ARE AVAILABLE TO ADAPT UNIT FOR TYPE 3R OUTDOOR USE WITHOUT VOIDING THE WARRANTY.
5) APPLICABLE WHEN OPTIONAL RAINSHIELDS ARE INSTALLED. RAINSHIELDS ARE SHIPPED IN KITS FOR FIELD INSTALLATION.
6) CABLE ENTRANCE IS PERMITTED THROUGH THE LEFT SIDE, RIGHT SIDE AND/OR BOTTOM ENCLOSURE PANELS ONLY. CABLE ENTRANCE IS NOT PERMITTED THROUGH THE FRONT, REAR OR TOP PANELS.
7) FOR LIFTING OTHER THAN WITH A FORK TRUCK, REMOVE TOP COVER AND USE 1" [25 MM] DIAMETER HOLES IN THE TOP CORE CLAMPS.
8) ENCLOSURE PAINT COLOR IS ANSI #61 GRAY.
9) 6" [152 MM] MINIMUM CLEARANCE IS REQUIRED FROM ALL WALLS.
10) USE THIS DIMENSION WHEN PLANNING THE MOUNTING PAD.

JOB NAME:
ED
SPEEDI PROP:
211398

www.geindustrial.com/transformers

CAD DRAWING: 303B111GEDYP76A

UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE INCH [MM]

THIRD ANGLE PROJECTION

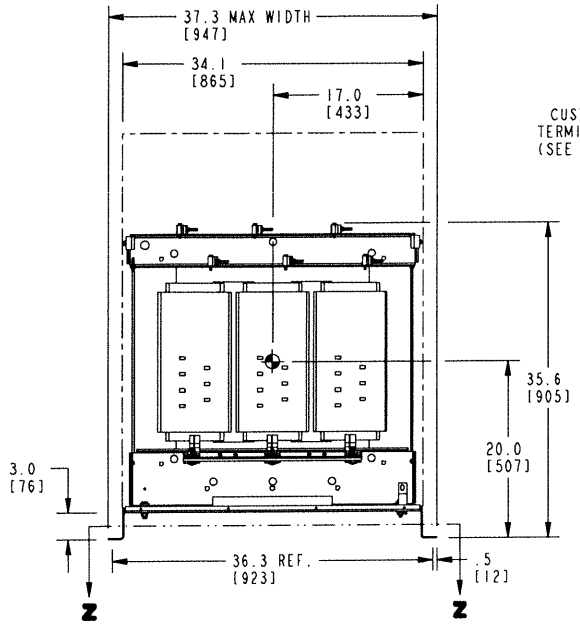
SHEET 1 OF 2

Transformers

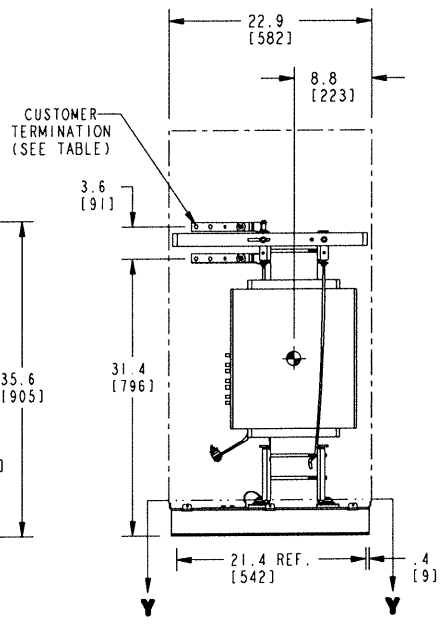
DRY TYPE TRANSFORMER OUTLINE DRAWING TYPE QL, 3-PHASE, DOE 2016 EFFICIENCY (ENCLOSED UNIT)

CATALOG # 9T10A1006 **REV** 0

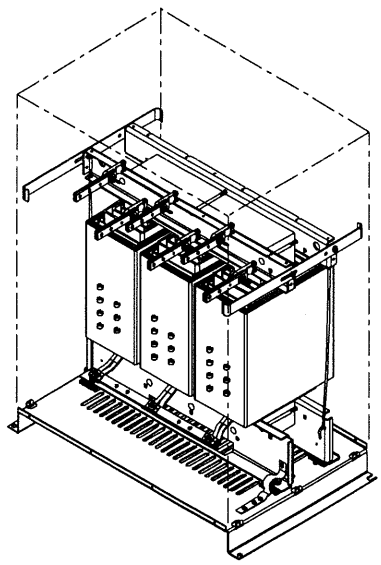
FRONT VIEW

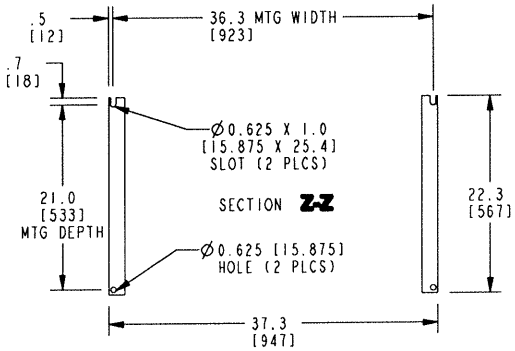


SIDE VIEW

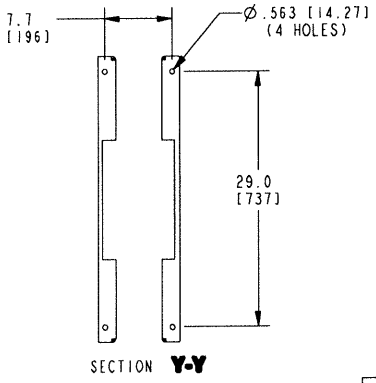


ISOMETRIC VIEW





BOTTOM VIEW OF MOUNTING HOLE PATTERN



BOTTOM VIEW OF MOUNTING HOLE PATTERN WITHOUT BASE ATTACHED

CUSTOMER TERMINATION			
LOCATION	CONNECTION TYPE	HOLE SIZE	HOLE QTY
PRIMARY BUS BARS	STANDARD BUS BAR (LUGS ARE OPTIONAL)	.41 [10.3] DIA	2 PER BUS BAR
SECONDARY BUS BARS			

APPROX TOTAL WEIGHT LBS [KG]
PAINTED: 900 [408]

kVA RATING:	150
K-FACTOR:	K1
PRI VOLTAGE:	480
SEC VOLTAGE:	208Y/120
FREQ (Hz):	60 Hz
TEMP RISE:	150C
WINDING MATL:	Aluminum
ES SHIELD:	NO
SOUND LVL (dB):	Std

NOTES:
1) ALL UNITS ARE UL LISTED AND ARE DESIGNED PER NEMA ST-20 STANDARDS.
2) THE TEMPERATURE RISE LISTED WAS DETERMINED WHEN THE TRANSFORMER WAS MOUNTED IN A STANDARD NEMA-2 ENCLOSURE.
3) TRANSFORMER IS DRY TYPE, CLASS AA FOR INDOOR USE.
4) FOR LIFTING OTHER THAN WITH A FORK TRUCK, USE 1" [25 MM] DIAMETER HOLES IN THE TOP CORE CLAMPS.
5) BASE PAINT COLOR IS ANSI #61 GRAY.
6) 6" [152 MM] MINIMUM CLEARANCE IS REQUIRED FROM ALL WALLS.
7) ⊕ INDICATES APPROXIMATE CENTER OF GRAVITY.

JOB NAME:
ED
SPEEDI PROP:
211398

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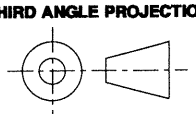
CAD DRAWING: 303B111GEDYP76A

UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE INCH [MM]

THIRD ANGLE PROJECTION



SHEET 2 OF 2

Transformers

DRY TYPE TRANSFORMER OUTLINE DRAWING TYPE QL, 3-PHASE, DOE 2016 EFFICIENCY (CORE & COIL UNIT)

CATALOG # 9T10A1006

REV 0

Transformers General Information

Types QB, QMS, and QL 600 Volts and Below

The complete family of transformers from GE provides quiet, reliable operation.

All of the dry-type transformers through 1000 KVA are UL listed under the requirements of Standard 506 and 1561. In addition each transformer meets the requirements of NEMA ST-20, 1992. Type QB and QMS models are C-UL listed.

General-purpose transformers are rated 600 volts and below for supplying appliance, lighting and power loads from electrical distribution systems. Standard distribution voltages are 600, 480 and 240 volts; standard load voltages are 480, 240, 208 and 120 volts. The transformer is used to obtain the load voltage from the distribution voltage. Since no vaults are required for installation these transformers can be located right at the load to provide the correct voltage for the application. This eliminates the need for long, costly, low-voltage feeders.

Construction

Types QB and QMS

Core and Coils are contained within a NEMA 3R non-ventilated weatherproof enclosure. Type QB and QMS units feature encapsulated core and coils.

Type QL

Units are enclosed in a NEMA 2 drip-proof metal enclosure with natural-draft ventilation. Core-and-coil assembly is mounted on rubber isolation pads to reduce noise. Weathershield kits are available for conversion to a NEMA 3R enclosure suitable for outdoor service. **All QL DOE2016 model part numbers begin with 9T1.**

Voltage Tap Arrangement

Transformer taps compensate for high or low line voltages. Standard NEMA, ANSI three-phase taps are two 5 percent taps below normal on transformers smaller than 30 KVA. This arrangement provides a 10 percent range of tap voltage adjustment.

Most standard QL units rated 15 through 500 KVA have available six universal voltage taps-four 2 1/2 percent below normal and two 2 1/2 percent above normal. This arrangement provides a 15 percent range of tap voltage adjustment.

Temperature Class

Industry standards classify insulation systems in accordance with the rating system shown below.

Insulation system classification

Ambient	+ Winding Rise	+ Hot Spot	= Temp. Class
40°C	55°C	10°C	105°C
40°C	80°C	30°C	150°C
40°C	115°C	25°C	180°C
40°C	150°C	30°C	220°C

All standard general-purpose, GE transformers meet all applicable NEMA, ANSI, UL and IEEE standards.

The design life of transformers having different insulation systems is the same, since the allowable temperature rise of an insulation material system is predicated on a specified life for all insulation. The lower temperature systems are designed for the same life as higher temperature systems.

Sound Levels

All general-purpose transformers are as quiet, or quieter than the 1986 ANSI and NEMA standards for sound levels. Average sound levels are warranted not to exceed the values listed for each load rating shown in the adjacent table. Sound characteristics vary between transformers of identical voltage and KVA rating. The range of variation may be 4 to 8 decibels.

These values apply only to specified test conditions because the characteristic of the installation can cause them to be higher under operating conditions. Where acoustical noise is deemed to be of unusual concern, proper steps should be taken during installation to minimize audible noise transmission.

Sound Levels (Decibels)[1] for 150°C Rise Models

KVA	Sound Levels
0 - 9	40
10 - 50	45
51 - 150	50
151 - 300	55
301 - 500	60

[1]Measure per ANSI C89 2-1986.

Termination

Improved termination spacing and wiring compartment room gives greater flexibility in selecting various UL listed connectors for either copper or aluminum cable. A listing of suitable connectors is packaged with each GE transformer.