

JOHNSON CONTROLS - Transformers

Y63, Y64, Y65, Y66 and Y69 Series



DESCRIPTION:

The series Y63, Y64, Y65, Y66, and Y69 transformers handle 24 VAC power requirements from 40 VA through 300 VA. These transformers are designed for use with digital controllers, gas controls, ignition systems, motor actuators, staging controls, and most other 24 VAC Heating, Ventilating, Air Conditioning (HVAC) and Refrigeration control systems. The Y6x Series meets the national requirements of the United States and Canada. The Y63, Y64, Y65, and Y66 transformers are Underwriters Laboratories Inc. (UL) listed as Class 2 transformers (UL 1585, CSA C22.2 No. 66). The Y69 is listed as a general-purpose transformer (UL 506, CSA C22.2 No. 66).

FEATURES:

- Split-bobbin design provides best primary/secondary isolation.
- Mutate primaries reduce stocking requirements and offer application flexibility.
- Choice of plate, foot, or conduit hub mounting provides mounting flexibility.
- Choice of primary voltages meets a wide range of power requirements from 24 VAC through 480 VAC.
- Color-coded lead wires for simplicity and standardization.
- Built-in circuit breakers allow for easy reset, and avoid the replacement cost after a burnout (Y63, Y64, Y66, and Y69)

To Order

Specify the code number from the following selection chart.

Specifications:

| Y63, Y64, Y65, Y66, Y69 SERIES TRANSFORMERS | | |
|---|---|----------------|
| Input Power Requirements | 24-480 VAC at 60 Hz | |
| Full Load Secondary Voltage | 23.5 VAC (Nominal) | |
| Open Circuit Secondary Voltage (No Load) | 27.0 VAC (Nominal) | |
| Full Load Secondary VA Rating | Series | Volt-Amperes |
| | Y63 | 50 VA |
| | Y64 | 92 VA 40 VA |
| | Y65 | |
| | Y66 | 75 VA |
| | Y69 | 300 VA |
| Finish | Endbells, frame, feet, and mounting plates are zinc plated. | |
| Ambient Operating Temperature | -40 to 104°F (-40 to 40°C) | |
| Ambient Storage Temperature | -40 to 140°F (-40 to 60°C) | |
| Shipping Weight | Y63 | 3.0 lb/1.4 kg |
| | Y64 | 4.0 lb/1.8 kg |
| | Y65 | 2.0 lb/0.9 kg |
| | Y66 | 3.0 lb/1.4 kg |
| | Y69 | 11.0 lb/5.0 kg |
| Agency Compliance | UL Listed Y63, Y64, Y65, Y66; File E25482 or E95575, CCN's XOKV (US) and XOKV7 (Canada) UL Recognized Y63, Y64, Y65, Y66; File E25482 or E95575, CCN's XOKV2 (US) and XOKV8 (Canada) UL Listed Y69; File E37177 or E95138, CCN's XPTQ (US) and XPTQ7 (Canada) All transformers are Class 2 except the Y69 (300 VA), which is listed as a power transformer. | |

Refrigeration

JOHNSON CONTROLS - Transformers

Y63, Y64, Y65, Y66 and Y69 Series Transformers (Continued)

Selection Chart

40 VA Capacity Transformers with Energy Limiting Type Overload Protection

| PART NO | Agency Requirement | Voltage VAC | Primary | | Secondary | | MOUNTING |
|----------|--------------------|-------------|---------------------------------|-------------|--------------------------------------|------------------------------|----------|
| | | | Connection | Voltage VAC | Connection | Voltage VAC | |
| Y65G13-0 | UL, cUL Class 2 | 24 | Male Fitting 8 in. prim. leads | 24 | Male Fitting 30 in. sec. leads | Foot | |
| Y65A13-0 | UL, cUL Class 2 | 120 | Male Fitting 8 in. prim. leads | 24 | Male Fitting 30 in. sec. leads | Foot | |
| Y65A21-0 | UL, cUL Class 2 | 120 | Endbell holes 8 in. prim. leads | 24 | Three screw terminals (one is blind) | 4 in. x 4 in. plate | |
| Y65T31-0 | UL, cUL Class 2 | 120/208/240 | Male Fitting 8 in. prim. leads | 24 | Three screw terminals (one is blind) | Foot 4 in. x 4 in. plate (a) | |
| Y65T42-0 | UL, cUL Class 2 | 120/208/240 | Male Fitting 8 in. prim. leads | 24 | Male Fitting 8 in. sec. leads | Hub 4 in. x 4 in. plate (a) | |
| Y65T54-0 | UL, cUL Class 2 | 120/208/240 | 8 in. primary leads | 24 | 8 in. secondary leads | Foot-skeleton | |
| Y65S13-0 | UL, cUL Class 2 | 208/240 | Male Fitting 8 in. prim. leads | 24 | Male Fitting 30 in. sec. leads | Foot | |
| Y65F13-0 | UL, cUL Class 2 | 277/480 | Male Fitting 8 in. prim. leads | 24 | Male Fitting 30 in. sec. leads | Foot | |
| Y65F42-0 | UL, cUL Class 2 | 277/480 | Male Fitting 8 in. prim. leads | 24 | Male Fitting 8 in. sec. leads | Hub 4 in. x 4 in. plate (a) | |

50 VA Capacity Transformers with Circuit Breakers

| PART NO | Agency Requirement | Voltage VAC | Primary | | Secondary | | MOUNTING |
|----------|--------------------|-------------|---------------------------------|-------------|--------------------------------------|------------------------------|----------|
| | | | Connection | Voltage VAC | Connection | Voltage VAC | |
| Y63T22-0 | UL, cUL Class 2 | 120/208/240 | End Bell Hole 8 in. prim. leads | 24 | End Bell Hole 8 in. sec. leads | 4 in. x 4 in. plate | |
| Y63T31-0 | UL, cUL Class 2 | 120/208/240 | Male Fitting 8 in. prim. leads | 24 | Three screw terminals (one is blind) | Foot 4 in. x 4 in. plate (a) | |
| Y63F22-0 | UL, cUL Class 2 | 277/480 | End Bell Hole 8 in. prim. leads | 24 | End Bell Hole 8 in. sec. leads | 4 in. x 4 in. plate | |

75 VA Capacity Transformers with Circuit Breakers

| PART NO | Agency Requirement | Voltage VAC | Primary | | Secondary | | MOUNTING |
|----------|--------------------|-------------|--------------------------------|-------------|--------------------------------|-------------|----------|
| | | | Connection | Voltage VAC | Connection | Voltage VAC | |
| Y66T12-0 | UL, cUL Class 2 | 120/208/240 | Male Fitting 8 in. prim. leads | 24 | Male Fitting 30 in. sec. leads | Foot | |
| Y66T13-0 | UL, cUL Class 2 | 120/208/240 | Male Fitting 8 in. prim. leads | 24 | Male Fitting 30 in. sec. leads | Foot | |
| Y66F12-0 | UL, cUL Class 2 | 277/480 | Male Fitting 8 in. prim. leads | 24 | Male Fitting 8 in. sec. leads | Foot | |
| Y66F13-0 | UL, cUL Class 2 | 277/480 | Male Fitting 8 in. prim. leads | 24 | Male Fitting 30 in. sec. leads | Foot | |

92 VA Capacity Transformers with Circuit Breakers

| PART NO | Agency Requirement | Voltage VAC | Primary | | Secondary | | MOUNTING |
|----------|--------------------|-------------|---------------------------------|-------------|--------------------------------------|-------------|----------|
| | | | Connection | Voltage VAC | Connection | Voltage VAC | |
| Y64T15-0 | UL, cUL Class 2 | 120/208/240 | Male Fitting 8 in. prim. leads | 24 | Female Fitting 30 in. sec. leads | Foot | |
| Y64T21-0 | UL, cUL Class 2 | 120/208/240 | Endbell holes 8 in. prim. leads | 24 | Three screw terminals (one is blind) | Plate | |
| Y64T22-0 | UL, cUL Class 2 | 120/208/240 | End Bell Hole 8 in. prim. leads | 24 | End Bell Hole 8 in. sec. leads | Plate | |

300 VA Capacity Transformers with Circuit Breakers

| PART NO | Agency Requirement | Voltage VAC | Primary | | Secondary | | MOUNTING |
|----------|--------------------|-------------|--------------------------------|-------------|----------------------------------|-------------|----------|
| | | | Connection | Voltage VAC | Connection | Voltage VAC | |
| Y69T15-0 | cULus Power Trans | 120/208/240 | Male Fitting 8 in. prim. leads | 24 | Female Fitting 30 in. sec. leads | Foot | |

(a) 4 in. x 4 in. plate and nut packed with transformer

Compressors,
Chillers, Condensers

Motors

Electrical

Heating
Components

Indoor Air
Quality

Thermostats

Oils &
Chemicals

Accessories, Supplies
& Commodities

Tools &
Instruments

Refrigeration