

Relays and Transformers

Y63, Y64, Y65, Y66, and Y69 Series Transformers

Description

The Y63, Y64, Y65, Y66, and Y69 Series Transformers provide 24 VAC power for loads of 40 VA through 300 VA. These transformers are designed for use on digital controllers, gas controls, ignition systems, motor actuators, staging controls, and most other 24 VAC HVAC/R control systems.

The Y6x Series meets the requirements of UL 1585, UL 506, and CSA C22.2 No. 66, providing compliance in both the United States and Canada. The Y63, Y64, Y65, and Y66 transformers are 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).

Refer to the Series Y63, Y64, Y65, Y66, and Y69 Transformers Product Bulletin (*LIT-125755*) for important product application information.

Features

- split-bobbin design provides best
- primary/secondary isolation
 multi-tap primaries reduce stocking requirements and offer application flexibility
- choice of foot, plate, 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 provide simplicity and standardization
- cULus listed or cURus recognized meets US and Canadian requirements for Class 2 transformers (Y63, Y64, Y65, and Y66) and general purpose transformers (Y69)
- built-in, easy-reset circuit breakers eliminate replacement time and cost caused by burn-out (Y63, Y64, Y66, and Y69)
- open frame Y65 models serve as ideal models when end bells are not required



Y65 Series Transformer

Repair Information

Do not make any field repairs to transformers. For a replacement transformer, contact the nearest Johnson Controls® distributor or sales representative.

Selection Chart

Y63, Y64, Y65, Y66, and Y69 Series Transformers (Part 1 of 2)

Product Code Number	Primary Voltage VAC	Secondary Voltage VAC	Primary Connection	Secondary Connection	Mounting	Agency Requirement
	•	40 VA Capaci	ty Transformers with En	ergy Limiting Type Ove	rload Protection	
Y65G13-0	24	24	External Fitting 8 in. primary leads	External Fitting 30 in. secondary leads	Foot	cULus Class 2
Y65A13-0	120	24	External Fitting 8 in. primary leads	External Fitting 30 in. secondary leads	Foot	cULus Class 2
Y65A21-0	120	24	End bell holes 8 in. primary leads	Three screw terminals (one is blind)	4 in. x 4 in. plate	cULus Class 2
Y65T31-0	120/208/240	24	External Fitting 8 in. primary leads	Three screw terminals (one is blind)	Foot 4 in. x 4 in. plate ¹	cULus Class 2
Y65T42-0	120/208/240	24	Common External Fitting 8 in. primary leads	Common External Fitting 8 in. secondary leads	Hub 4 in. x 4 in. plate ¹	cURus Class 2
Y65T54-0	120/208/240	24	8 in. primary leads	8 in. secondary leads	Foot-skeleton	cURus Class 2
Y65S13-0	208/240	24	External Fitting 8 in. primary leads	External Fittings 30 in. secondary leads	Foot	cULus Class 2
Y65F13-0	277/480	24	External Fitting 8 in. primary leads	External Fitting 30 in. secondary leads	Foot	cULus Class 2
Y65F42-0	277/480	24	Common External Fitting 8 in. primary leads	Common External Fitting 8 in. secondary leads	Hub 4 in. x 4 in. plate ¹	cURus Class 2
			50 VA Capacity Transfor	mers with Circuit Breal	kers	
Y63T22-0	120/208/240	24	End bell Hole 8 in. primary leads	End bell Hole 8 in. secondary leads	4 in. x 4 in. plate	cURus Class 2
Y63T31-0	120/208/240	24	External Fitting 8 in. primary leads	Three screw terminals (one is blind)	Foot 4 in. x 4 in. plate ¹	cULus Class 2
Y63F22-0	277/480	24	End bell Hole 8 in. primary leads	End bell Hole 8 in. secondary leads	4 in. x 4 in. plate	cURus Class 2

The performance specifications are nominal and conform to acceptable industry standards. For applications at conditions beyond these specifications, consult th Johnson Controls, Inc. shall not be liable for damages resulting from misapplication or misuse of its products. © 2015 Johnson Controls, Inc.



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

Y63, Y64, Y65, Y66, and Y69 Series Transformers (Part 2 of 2)

Product Code Number	Primary Voltage VAC	Secondary Voltage VAC	Primary Connection	Secondary Connection	Mounting	Agency Requirement
			75 VA Capacity Transfor	mers with Circuit Break	ers	
Y66T12-0	120/208/240	24	Common External Fitting 8 in. primary leads	Common External Fitting 8 in. secondary leads	Foot	cURus Class 2
Y66T13-0	120/208/240	24	External Fitting 8 in. primary leads	External Fitting 30 in. secondary leads	Foot	cULus Class 2
Y66F12-0	277/480	24	Common External Fitting 8 in. primary leads	Common External Fitting 8 in. secondary leads	Foot	cURus Class 2
Y66F13-0	277/480	24	External Fitting 8 in. primary leads	External Fitting 30 in. secondary leads	Foot	cULus Class 2
			92 VA Capacity Transfor	mers with Circuit Break	ers	
Y64T15-0	120/208/240	24	External Fitting 8 in. primary leads	Internal Fitting 30 in. secondary leads	Foot	cULus Class 2
Y64T21-0	120/208/240	24	End bell holes 8 in. primary leads	Three screw terminals (one is blind)	Plate	cULus Class 2
Y64T22-0	120/208/240	24	End bell Hole 8 in. primary leads	End bell Hole 8 in. secondary leads	Plate	cURus Class 2
		. 3	00 VA Capacity Transfo	rmers with Circuit Brea	kers	u
Y69T15-0	120/208/240	24	External Fitting 8 in. primary leads	Internal Fitting 30 in. secondary leads	Foot	cULus Power Transformer

1. 4 in. x 4 in. plate and nut packed with transformer.

Technical Specifications

Series Y63, Y64, Y65, Y66, Y69 Transformers					
Input Power Requirements	24 to 480 VA	24 to 480 VAC at 60 Hz			
Full Load Secondary Voltage	23.5 VAC (N	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			
	Y65	40 VA			
	Y66	75 VA			
	Y69	300 VA			
Finish	End bells, frame, feet, and mounting plates are corrosion resistant				
Ambient Operating Temperature	-40 to 104°F	-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 E95575, CCN's XOKV (US) and XOKV7 (Canada)				
	UL Recognized Y63, Y64, Y65, Y66; File E95575, CCN's XOKV2 (US) and XOKV8 (Canada)				
	UL Listed Y69; File E95138, CCN's XPTQ (US) and XPTQ7 (Canada)				
	All transform	All transformers are Class 2 except the Y69 (300 VA), which is listed as a power transformer.			

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