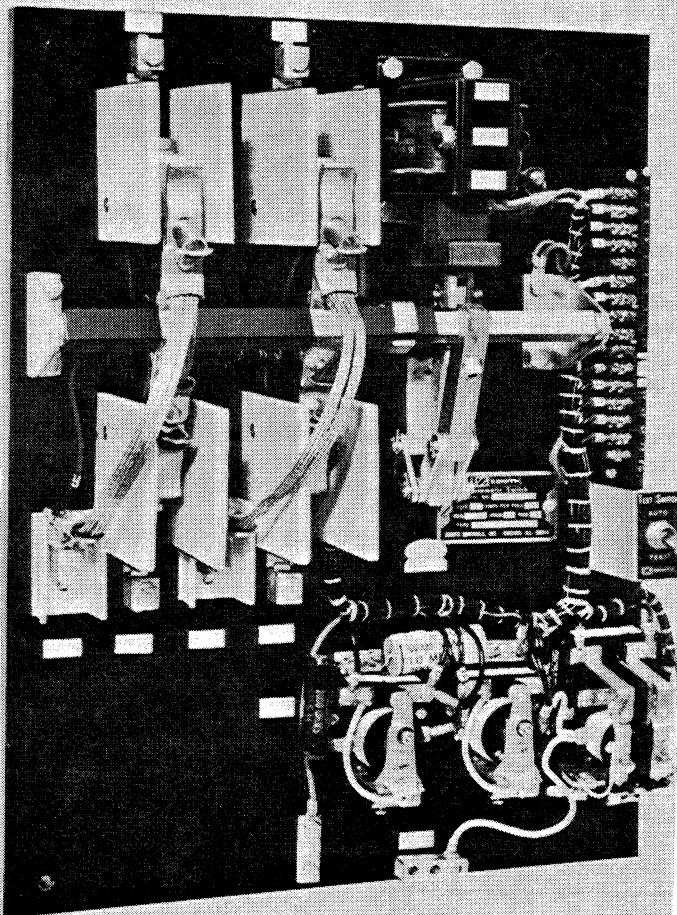


ZENITH QT/6QT SERIES

AUTOMATIC TRANSFER SWITCHES

40-100 AMPERES

Mechanically Held—Normal Position
Electrically Held—Emergency Position



MODEL QT7B-2E 75 AMP, 1 PHASE, 3 WIRE
 MODULAR CONSTRUCTION

**SERIES QT FOR NON-INDUCTIVE
 AND MIXED LOADS, 250 VOLT AC.
 SERIES 6QT FOR ALL CLASSES OF
 LOAD TO 250 VOLT AC.**

APPLICATIONS: Zenith QT and 6QT series automatic transfer switches assure continuous power for standby and emergency lighting applications. They operate to automatically transfer lighting circuits to an emergency source of supply when the normal source fails.

The QT series are designed for emergency lighting applications and control of non-inductive and mixed loads where the interrupting currents are less than 1½ times the rated currents. They are equipped with heavy phase barriers to provide positive protection between phases. The 6QT series are equipped with blowout coils and arc chutes to handle all classes of loads, and interrupt to 6 times rated current.

OPERATION: When the normal line fails or falls to the predetermined point, the phase relays detect that failure and close the circuit to the emergency coil. This coil operates to drive the switch out of the normal position and into the emergency position. When the normal line restores, the phase relays energize and the switch restores to the normal position, where it is locked by gravity and heavy compression springs.

Specifications QT and 6QT

Voltage rating	QT series: non-inductive loads 250 volt AC. 6QT series; all classes of loads, 250 volt AC.
Ampere sizes	40, 75, 100.
Inrush current rating	20 times rated current.
Interrupting capacity	QT series: 1½ times rated current. 6QT series: 6 times rated current.
Contact transfer time	Approximately 10 milliseconds.
Current derating	No derating for enclosed units or tungsten loads.
Switch type	Mechanically held normal position, electrically held emergency position. Vertical construction.
Approvals	UL 1008 listed — QT Series CSA approved — QT and 6QT Series

Ordering Information

Series QT and 6QT

QT SERIES MODEL NUMBERS			
Amperes	2 pole	3 pole	4 pole
40	QT4B	QT4E	QT4F
75	QT7B	QT7E	QT7F
100	QT10B	QT10E	QT10F

6QT SERIES MODEL NUMBERS			
Amperes	2 pole	3 pole	4 pole
40	6QT4B	6QT4E	6QT4F
75	6QT7B	6QT7E	6QT7F
100	6QT10B	6QT10E	6QT10F

SUFFIX NUMBERS	
-1	120 volt, 1 phase 2 wire
-2	120/240 volt, 1 phase 3 wire
-3	240 volt, 3 phase 3 wire.
-4	120/208 volt. 3 phase 4 wire.
-8	120/240 volt, 2 phase 4 wire or 5 wire.

To obtain complete model number, add suffix number to indicate voltage source and wiring system. Example: a non-inductive 75 amp, 1 phase, 3 wire, 120/240 volt, 2 pole transfer switch will have a complete model number QT7B-2.

Add suffix X to complete model number to indicate open type unit. Standard units include voltage sensitive phase relays (set at 70% dropout—90% pickup unless otherwise specified), test switch, and neutral bar (when required). All enclosures are NEMA-1 for surface mounting. Enclosure other than NEMA-1 are available. Price and details furnished upon request.

Units requiring switched neutral will be ordered as follows: If the system is 3 phase, 4 wire, 120/208 volt, 100 amperes and the neutral must be switched, choose the 4 pole model number and indicate suffix number-4. The correct model number for this system will then be QT10F-4.

Accessory equipment: Refer to ZTS-75R-2 brochure, page 11.

Suggested Specifications

SERIES QT OR 6QT SWITCHES (40-100 amperes)

1. An automatic transfer switch is to be provided for ___ ampere ___ pole ___ KVA service, for normal source ___ volts ___ phase ___ wire, and emergency source ___ volts ___ phase ___ wire.
2. To transfer the load from normal to emergency when any phase of the normal drops below 70% of rated voltage, and to automatically restore the load to the normal source when all phases are 90% or more of rated voltage.
3. The transfer switch must be a double throw mechanism, actuated by one main operating coil, controlled by the emergency source. Upon failure of normal source, the emergency coil is energized and the load transfers to emergency source of supply.
4. Units are to be provided with test switch to test operation of transfer switch. In case the emergency source is a generator, unit is to be provided with a contact to actuate the generator starting circuit upon failure of normal line, and a voltage lockout relay to prevent transfer to the emergency service until that service reaches 90% of rated line voltage.
5. Units are to be equipped with a time delay to delay engine starting until the normal source has failed for a set time, preventing excessive engine starting.
6. Units are to be equipped with a time delay to prevent restoration to normal service until that service has returned and stabilized, thereby preventing excessive re-transfer in case of momentary return of normal voltage.
7. All main contacts must meet with a rolling and wiping self cleaning action. Switches shall be Zenith Controls, Inc. Model QT or approved equal, 250 volts maximum AC. Switches for inductive loads for voltages to 250 volts AC must have main contacts protected with blow-out coils and arc chutes, and shall be Zenith Controls, Inc. Model 6QT or approved equal.

Dimensions & Weights

Amps	Poles	Main Panel			Typical Acc. Panel			Cabinet			Wt.	
		H	W	D	H	W	D	H	W	D	Open	Encl.
40-100	2	18	14	5	18	6	5	24	24	10	20	65
	3	18	18	5	18	10	5	26	32	10	26	91
	4	18	22	5	18	10	5	34	36	12	55	140

Dimensions and weights are subject to change without notice. Dimensions shown are for the transfer switch only and may change due to the addition of accessory equipment and for enclosures other than NEMA-1. When exact dimensional information is necessary, contact Zenith for certified drawings. Dimensions are in inches, weights are in pounds.



830 W. 40TH ST. CHICAGO, IL 60609
(312) 247-6400