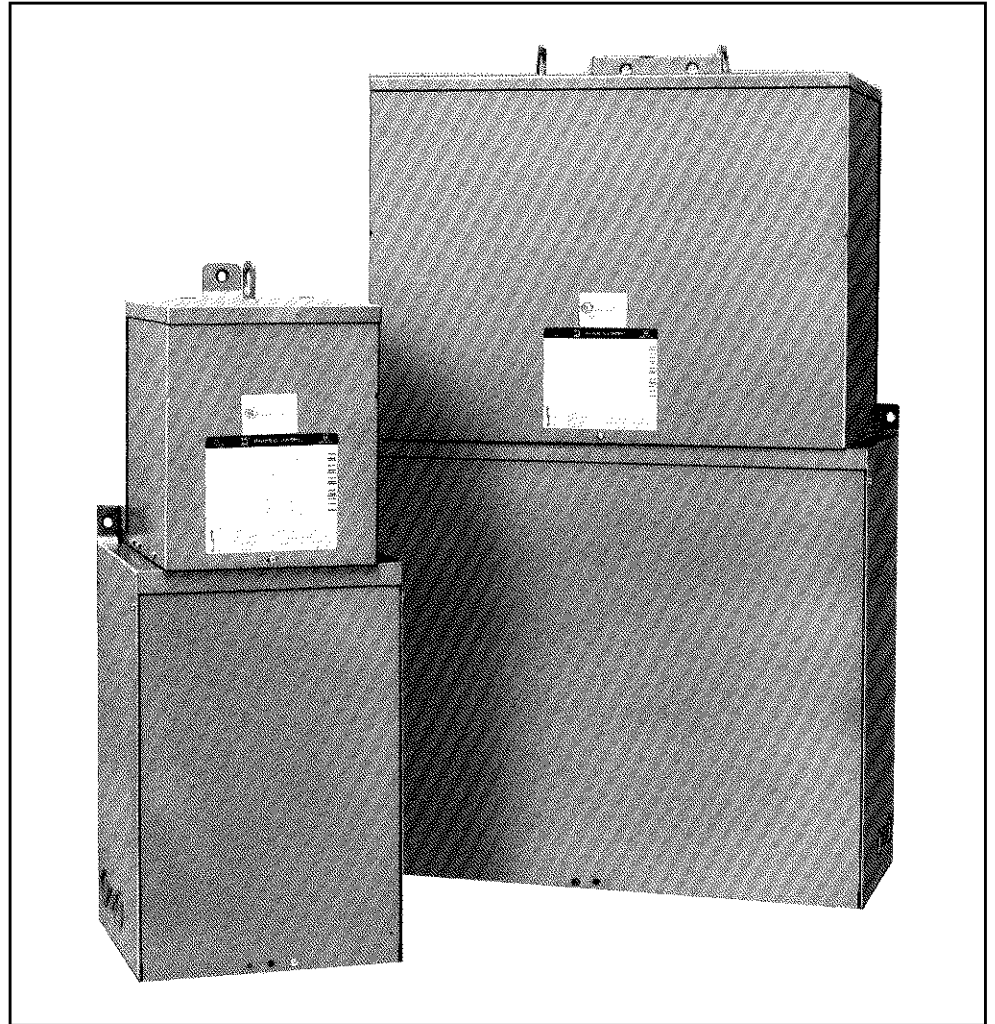


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# Mini Power-Zone<sup>®</sup>

## Package Power Supply



600 Volts and Below  
5-30KVA



**SQUARE D**  
GROUPE SCHNEIDER

## Typical Applications

- Small shopping centers
- Portable offices
- Emergency power or temporary power supply
- Test areas
- Assembly lines
- Plant areas where considerable water or moisture is present, such as sewage disposal and water treatment
- Construction site
- Brewery
- Packing plant
- Tannery
- Automobile manufacturing plant
- Paper industry
- Utility closet with limited space

## Mini Power-Zone® Package Power Supply

Square D Type MPZ, Mini Power-Zone® package power supply is a miniaturized version of a POWER-ZONE® unit substation. It provides a portable, compact, power supply for smaller loads and is suitable for service equipment. It is a space saving substitute for separate, conduit connected main breaker, transformer and secondary distribution panel. In addition, proper coordination of primary breaker and transformer are assured to prevent nuisance tripping on power-on inrush.

The Mini Power-Zone package is UL Listed for both indoor and outdoor use. The transformer has a maximum temperature rise of 115°C using a 185°C insulation system and is encapsulated in an epoxy resin-sand combination. The circuit breaker section is enclosed in a weather-resistant, steel enclosure.

Both the transformer and the panelboard section enclosures are protected by an electrostatically applied, powder coating, ASA49 color, for extra corrosion resistance. This construction provides an exceptionally durable unit for use in wet, dirty or dusty applications.



*Periodic changes in assembly operations requiring equipment to be relocated is an ideal application for the Mini Power-Zone package power supply, due to its ease of installation.*



*The compact design of the Mini Power-Zone transformer offers an excellent solution for shopping mall equipment rooms with limited space.*

## Designed for Ease of Installation

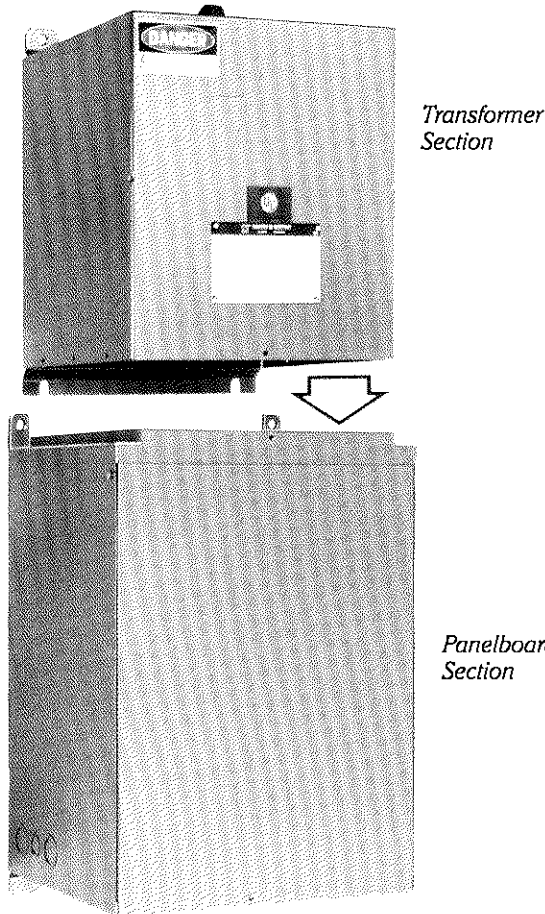
The Square D Mini Power-Zone package power supply has a unique two-part construction that provides installation flexibility.

This two-part construction utilizes removable transformers, available from factory stock, which can be replaced without disturbing external panelboard wiring.

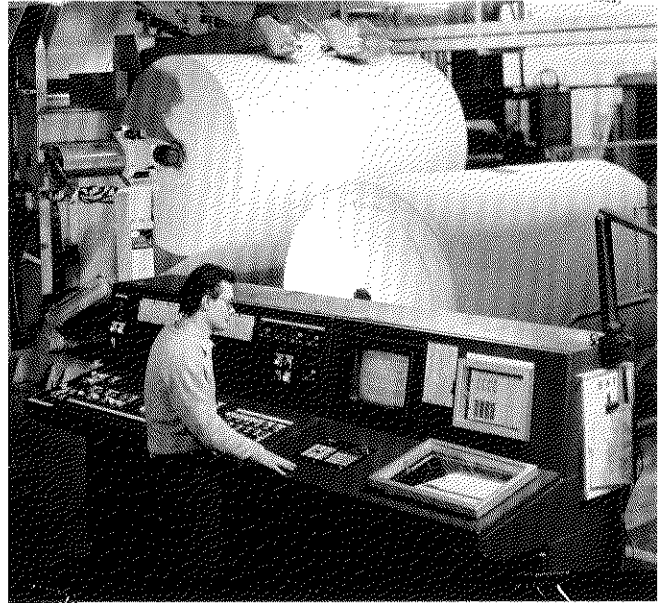
The transformer and panelboard can be mounted one part at a time if there is a space or handling problem.

The panelboard can be removed and wired first if desired. The transformer simply mounts on top of the panelboard, and the primary and secondary leads are re-connected to the main breakers.

All sizes are carried in the Square D warehouse system stock, complete with the transformer, main primary and main secondary circuit breakers, sized in accordance with National Electrical Code requirements. Branch circuit breakers are supplied separately.



*Construction sites requiring temporary power supplies can benefit from the ease of installation and portability of the Mini Power-Zone package power supply.*



*Because the core and coils are totally encapsulated, the Mini Power-Zone package power supply is ideal for plant applications where moisture is a problem.*

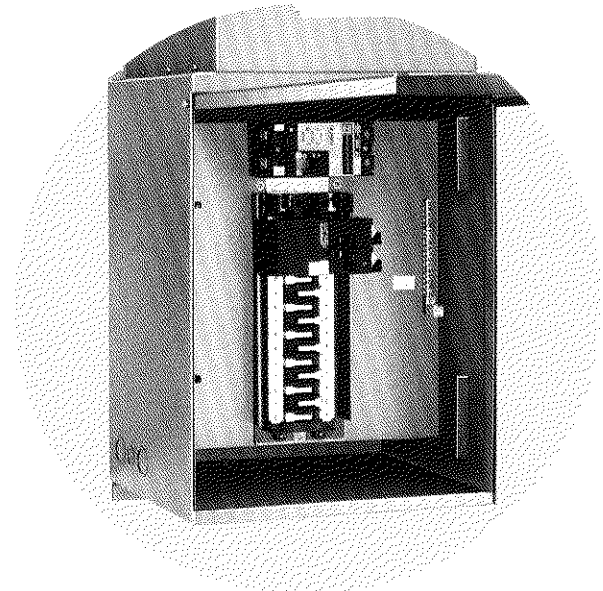
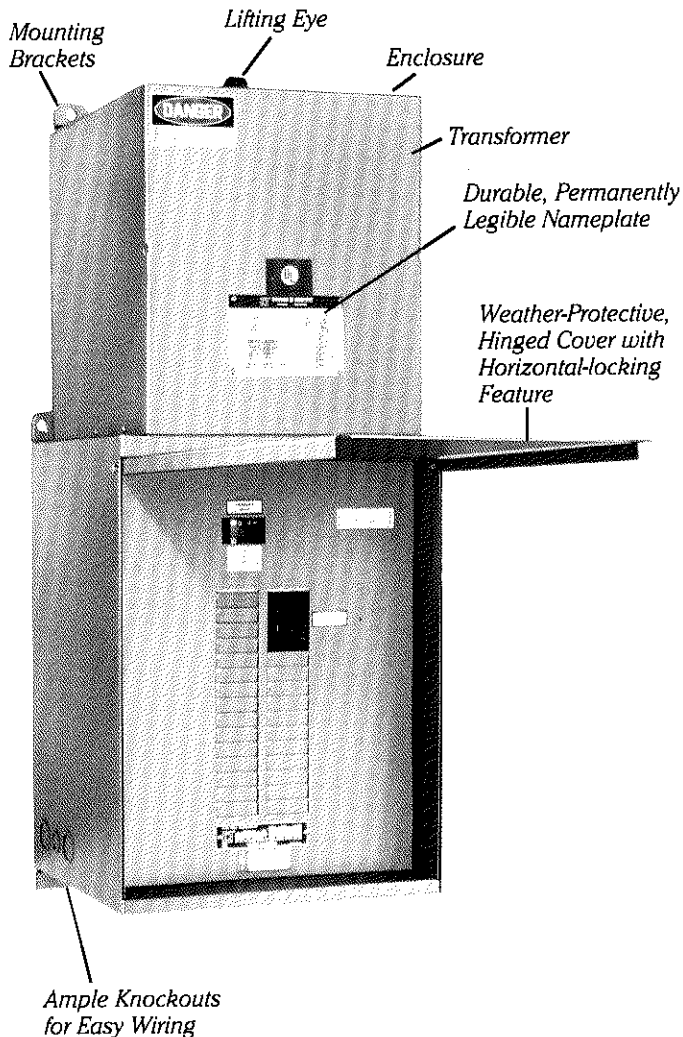
## Single Phase Package Power Supply

The single phase Mini Power-Zone package power supply is UL Listed for indoor and outdoor applications.

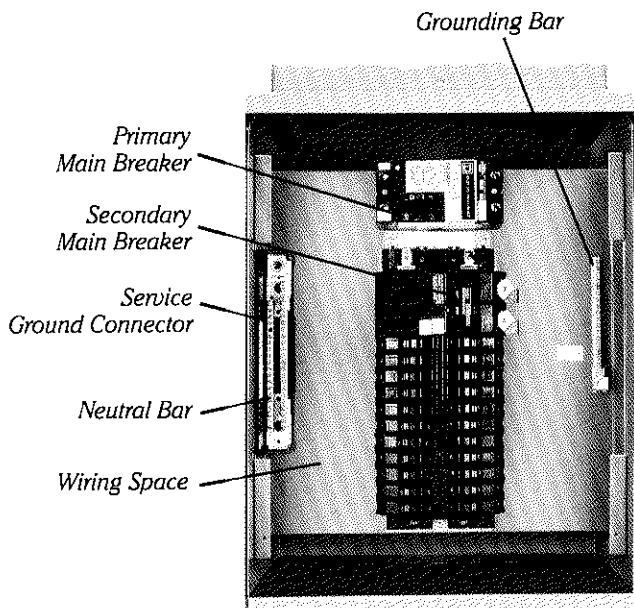
Standard Square D QO® plug-on branch circuit breakers or Qwik-Gard® ground fault circuit breakers may be ordered from any Square D distributor as required.

Shunt trip capability on the primary breaker is available on *special order* if fire department requires remote tripping provisions where used as service equipment.

UL Listed electrostatically shielded Mini Power-Zone units also available on special order.



**SINGLE PHASE MODELS**  
Interior view showing primary main, secondary main, and plug-on panel.



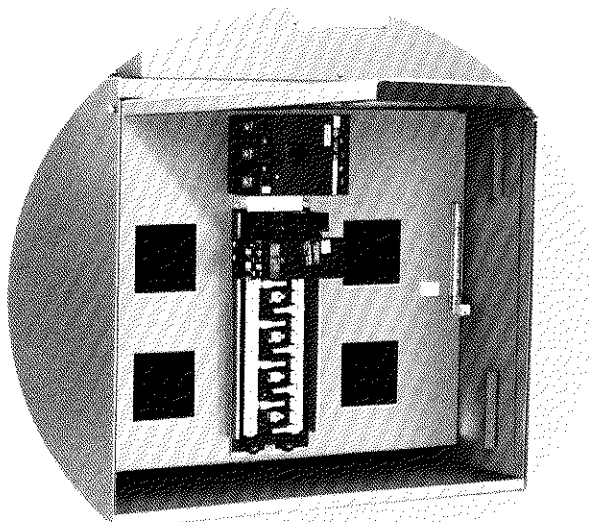
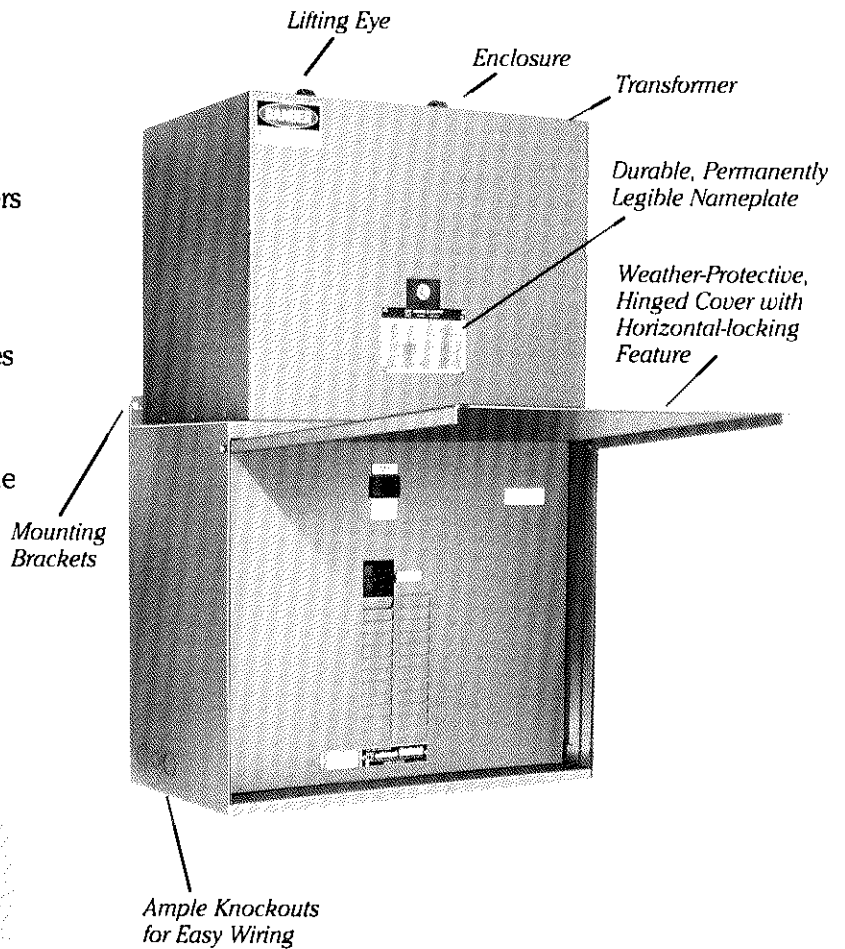
# Three Phase Package Power Supply

The three phase Mini Power-Zone package power supply is UL Listed for indoor and outdoor applications.

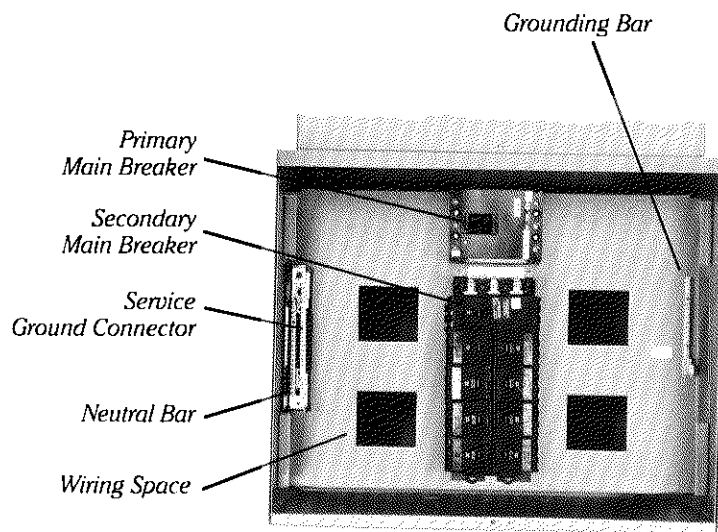
Standard Square D QO® plug-on branch circuit breakers or Qwik-Gard® ground fault circuit breakers may be ordered from any Square D distributor as required.

Shunt trip capability on the primary breaker is available on *special order* if fire department requires remote tripping provisions where used as service equipment.

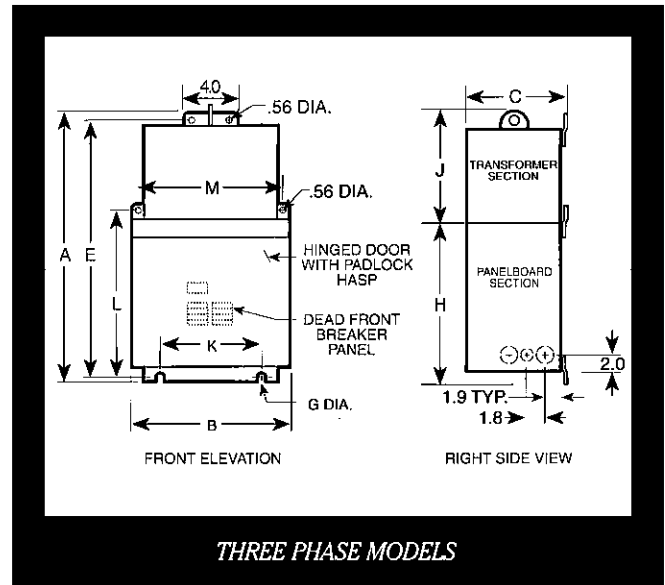
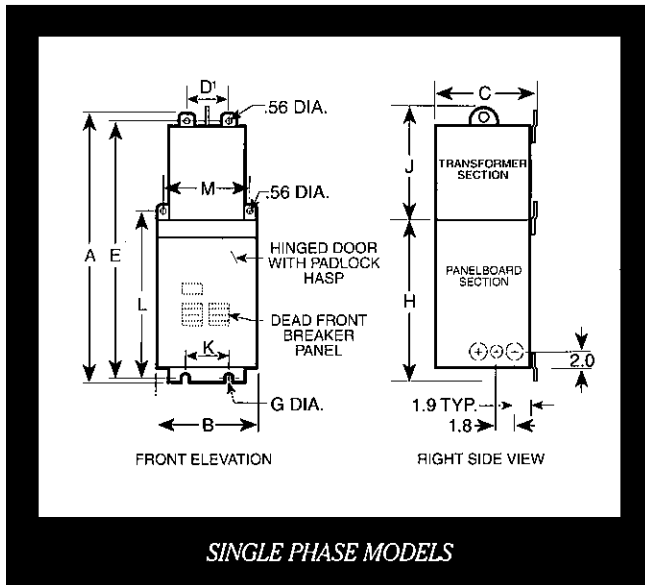
UL Listed electrostatically shielded Mini Power-Zone units also available on special order.



**THREE PHASE MODELS**  
Interior view showing primary main, secondary main, and plug-on panel.



# Dimensions



## SINGLE PHASE, 480 VOLTS PRIMARY 240/120 VOLTS SECONDARY, 2-5.0% TAPS FCBN

KVA	Catalog Number	Wght Lbs.	Dimensions										Primary 2 Main Circuit Breaker	Secondary Main Circuit Breaker	Feeder Breakers		
			A	B	C	D	E	G	H	J	K	L			M	Max # 1 or 2 Pole	Max Amps
5	MPZ5S40F	175	32.7	12.0	11.9	-	31.5	.31	19.4	13.2	4.8	19.9	11.0	FAL24020 20 AMPS	QO-230 30 AMPS	6 or 3	20
7.5	MPZ7S40F	200	32.7	12.0	11.9	-	31.5	.31	19.4	13.2	4.8	19.9	11.0	FAL24030 30 AMPS	QO-240 40 AMPS	8 or 4	30
10	MPZ10S40F	215	32.7	12.0	11.9	-	31.5	.31	19.4	13.2	4.8	19.9	11.0	FAL24040 40 AMPS	QO-260 60 AMPS	10 or 5	40
15	MPZ15S40F	350	42.9	17.4	13.5	12.0	41.7	.56	24.4	18.4	12.0	24.9	16.4	FAL24060 60 AMPS	QO280 80 AMPS	16 or 8	60
25	MPZ25S40F	425	42.9	17.4	13.5	12.0	41.7	.56	24.4	18.4	12.0	24.9	16.4	FAL24100 100 AMPS	QO2125 125 AMPS	24 or 12	100

## THREE PHASE, 480 VOLTS DELTA PRIMARY 208Y/120 VOLTS SECONDARY, 2-5.0% TAPS FCBN

KVA	Catalog Number	Wght Lbs.	Dimensions										Primary 2 Main Circuit Breaker	Secondary Main Circuit Breaker	Feeder Breakers		
			A	B	C	D	E	G	H	J	K	L			M	Max # 1 or 3 Pole	Max Amps
15	MPZ15T2F	710	45.0	27.4	13.6	-	43.8	.56	24.4	20.6	16.0	24.9	26.4	FAL34040 40 AMPS	QO-360 60 AMPS	12 or 4	40
22.5	MPZ22T2F	725	45.0	27.4	13.6	-	43.8	.56	24.4	20.6	16.0	24.9	26.4	FAL34070 70 AMPS	QO-380 80 AMPS	18 or 6	60
30	MPZ30T2F	755	45.0	27.4	13.6	-	43.8	.56	24.4	20.6	16.0	24.9	26.4	FAL34090 90 AMPS	QO-3100 100 AMPS	24 or 8	80

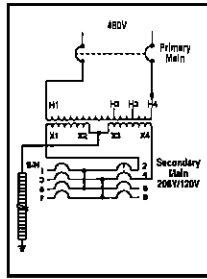
- Notes: 1) Basic assemblies include main primary and secondary breakers.  
 2) 5, 7.5 and 10 KVA units include only one top mounting bracket on centerline.  
 3) QO plug-on branch breakers, QWIK-GARD breakers, or QOPF filler plates for blank spaces may be obtained by ordering from the Square D Catalog Digest through your local Square D Distributor.

### Special Orders

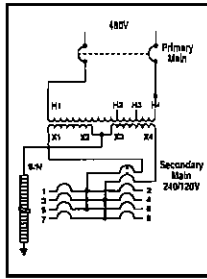
- 1) For primary breaker sunt trip, add suffix "SH" with coil voltage. Example: MPZ 5S40FSH120.
- 2) 600V and 240V also available.
- 3) For electrostatic shield, add suffix "IS". Example MPZ 10S40FIS.



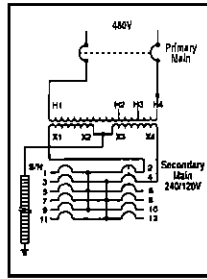
## Wiring Diagrams — Single Phase



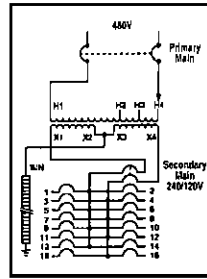
5 KVA  
Maximum size of Branch Breakers, 20 Amps. Total current per secondary main bus not to exceed 20 Amps.



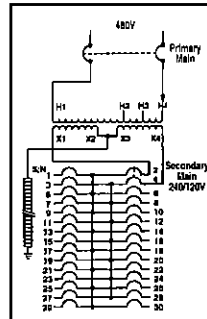
7.5 KVA  
Maximum size of Branch Breakers, 30 Amps. Total current per secondary main bus not to exceed 30 Amps.



10 KVA  
Maximum size of Branch Breakers, 40 Amps. Total current per secondary main bus not to exceed 40 Amps.



15 KVA  
Maximum size of Branch Breakers, 60 Amps. Total current per secondary main bus not to exceed 60 Amps.



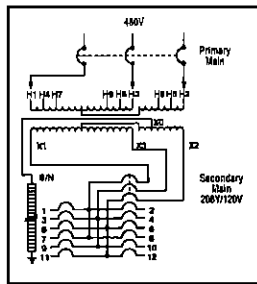
25 KVA  
Maximum size of Branch Breakers, 100 Amps. Total current per secondary main bus not to exceed 100 Amps.

### HV Tap Connections

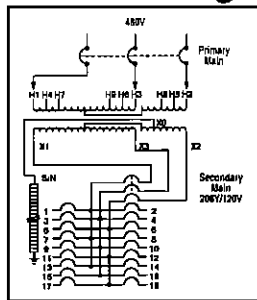
Volts	Line
480	H1-H4
456	H1-H3
432	H1-H2

LV 240/120, X1-X4-SN

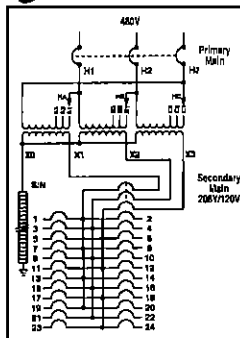
## Wiring Diagrams — Three Phase



15 KVA  
Maximum size of Branch Breakers, 40 Amps. Total current per secondary main bus not to exceed 40 Amps.



22.5 KVA  
Maximum size of Branch Breakers, 60 Amps. Total current per secondary main bus not to exceed 60 Amps.



30 KVA  
Maximum size of Branch Breakers, 80 Amps. Total current per secondary main bus not to exceed 80 Amps.

### 30 KVA HV Tap Connections

Volts	Conn.	Line
480	HA-A1 HB-B1 HC-C1	H1-H2-H3
456	HA-A2 HB-B2 HC-C2	H1-H2-H3
432	HA-A3 HB-B3 HC-C3	H1-H2-H3

### 15 KVA & 22.5 KVA HV Tap Connections

Volts	Line
480	H1-H2-H3
456	H1-H2-H3
432	H1-H2-H3

LV 208Y/120, X1-X2-X3-X0

*Note: Aluminum conductors may be used throughout except on the primary ground terminal. This is the copper terminal attached to the enclosure. A Copper conductor must be used with this terminal.*

## Typical Specifications

Furnish and install, as indicated on the electrical plans, Square D Mini Power-Zone® Dry-Type Package Power Supplies, or approved equal.

Single phase transformers shall be 480 volt primary and 240/120 volt secondary. Three phase transformers shall be 480 volt primary and 208Y/120 volt secondary.

All transformers shall have a minimum of 2-5% full capacity primary taps below normal and shall be rated 115°C temperature rise above 40°C maximum ambient. All insulating materials are to be in accordance with current ANSI C89.2 and NEMA ST20 standards for a 185°C UL component recognized insulation system.

Transformers are to be encapsulated using a sand-epoxy resin mixture to provide maximum protection against moisture, dust and corrosive environments.

Enclosures shall be cleaned, phosphatized and electrostatically powder coated with ASA 49 color.

Package power supplies shall include integrally mounted and wired primary and secondary main circuit breakers in accordance with National Electrical Code requirements.

Branch circuit breakers shall be Square D Type QO®, QWIK-GARD® or approved equal. All breakers shall be plug-on type. Trip indication shall be clearly shown by the breaker handle taking a position between ON and OFF when the breaker is tripped and by VISI-TRIP® indication consisting of a highly visible red tripped circuit indication.

A hinged access door shall be provided which maintains itself in the open position when desired, and which has padlock provisions to prevent unauthorized entry. All live parts are to be fully enclosed for personnel protection when installation is completed. The transformer and panelboards shall be constructed with separate enclosures capable of being assembled or disassembled as independent units.

All sizes shall be UL Listed for use as service equipment.

# From Single Products to Complete Systems, Look to Square D.

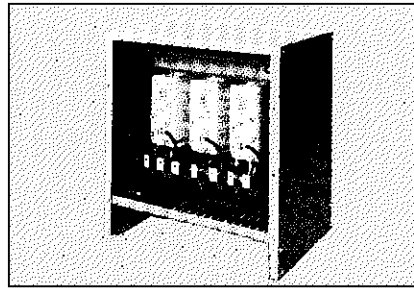
Square D Company is a leading manufacturer and supplier of electrical distribution, automation and industrial control products.

The full line of Square D and Telemecanique brand products are available from an extensive network of Square D distributors located throughout North America.

Square D Company is part of Groupe Schneider, an \$11 billion global manufacturer of electrical distribution, automation and industrial equipment.

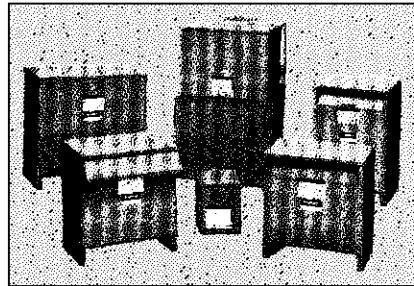
Square D has been serving industrial and construction markets, as well as public utilities, individual consumers and government agencies for over 90 years. We offer unsurpassed quality, innovative design and a committed staff of trained sales representatives and service technicians willing to stand behind every product we sell.

For further information on how we can help fill your electrical needs, call your local Square D field representative or authorized Square D distributor.



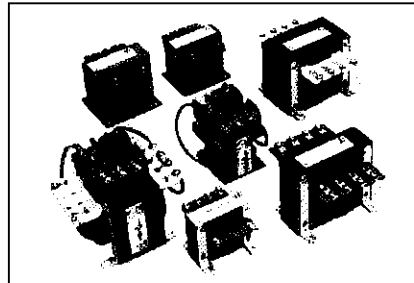
### **Non-Linear Transformers**

*The Square D expertise in power management is evident with the broad line of transformers for non-linear loads. Drive isolation and K-rated transformers are designed to withstand the heating effects of non-linear loads, as well as control harmonic levels and neutral currents.*



### **General Purpose Transformers**

*The Square D line of general purpose and lighting transformers has become known as the industry standard. Available in sizes from fractional .050 KVA through 3750 KVA in 600V through 25kV class.*



### **Control Power Transformers**

*Square D has a complete line of control power transformers that offer a variety of options for panel builders and OEMs. They are available in a wide range of voltages and fusing options.*

