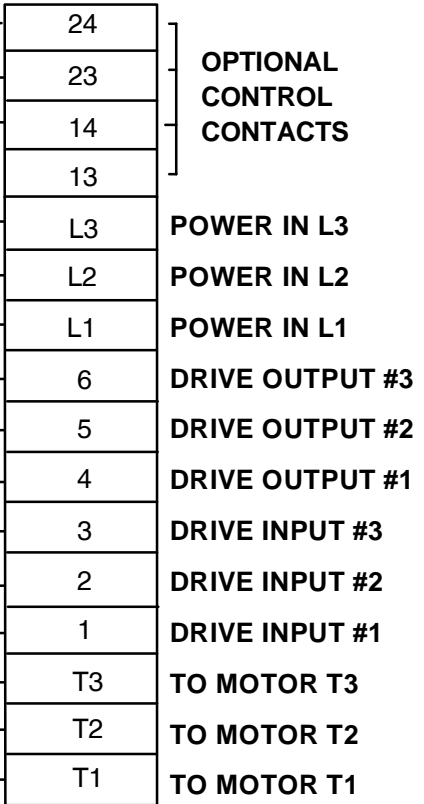


TERMINAL STRIP



OPTIONAL
CONTROL
CONTACTS

POWER IN L3

POWER IN L2

POWER IN L1

DRIVE OUTPUT #3

DRIVE OUTPUT #2

DRIVE OUTPUT #1

DRIVE INPUT #3

DRIVE INPUT #2

DRIVE INPUT #1

TO MOTOR T3

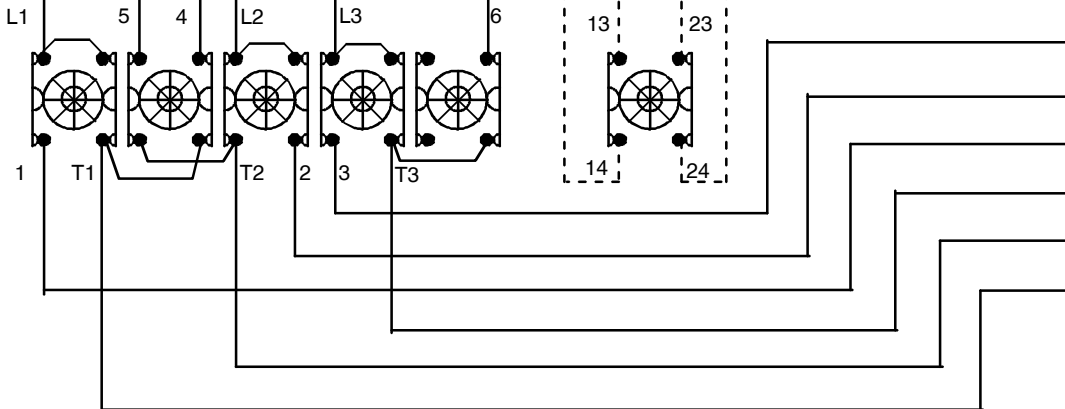
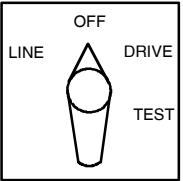
TO MOTOR T2

TO MOTOR T1

FACEPLATE

60 DEG SWITCHING

4-POSITION SWITCH



CONTACT SWITCHING DIAGRAM

SWITCH POSITION	L1	5	4	L2	2	L3	3	T3	6	13	23
LINE	1	T1		T2						14	24
OFF											
DRIVE											
TEST											

ADVANCE CONTROLS, INC.
4505 18TH STREET EAST BRADENTON, FL
941-746-3221

U.S. PATENT #5,721,449

DATE	DRAWING NUMBER	REV
06/02/99	SCH8408	

INVERTER BYPASS SAFETY SWITCH
TYPICAL CONNECTION DIAGRAM
DIRECT CONTROL W/O OVERLOAD


IBYSS - VFD BYPASS SWITCHES > Features & Technical Data

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**IBYSS (Inverter Bypass Safety Switch)
Features**

- "OFF" position functions as a Motor Disconnect
- **Manual operation** with **positive break contacts** for reliable circuit transfer
- **No contactors, relays, solenoids or coils** to consume power, stick or burn out
- **Complete isolation** of the Inverter from both the incoming and outgoing power
- **Full voltage across the line motor starting** up to 50 HP
- **Full voltage Contactor / Starter starting** up to 400 HP
- **Gold Flash auxiliary contacts** for reliable control signals to PLC's and other logic level devices. Furnished with either 1 or 2 auxiliary contacts:
 With **1 auxiliary**, the contact closes in the "DRIVE" and "TEST" positions.
 With **2 auxiliaries**, one contact closes in the "LINE" position and one contact closes in the "DRIVE" and "TEST" positions.
- **"TEST" position Standard** - allows power into the inverter without allowing power to flow to the application
- Switches can be **door mounted** or **sub-panel mounted**
- 3 styles of **Handle Assemblies** are available:
Selector style - non-lockable
Lockout style - meets OSHA 1910 requirements
Panel mount disconnect style - meets OSHA 1910 requirements and locks enclosure door closed
- **Basic open switch** for inclusion in customer's panel
- **Factory assembled** in an enclosure with easy to wire Terminal Strip for simple field installation
- **UL cUL Listed** through 125 Amps and 125 HP
- **UR and cUR recognized** through 400 Amps and 400 HP
- **U.S. Patent #5,721,449**
- **Three Phase Only**

Approvals

 CY017, CY032, CY040, CY063, CY100

FILE NUMBER: E101686



Technical Data - UL508

Maximum Voltage: 600 VAC

General Information				Direct Control in "LINE" position				Starter Control in "LINE" position			
SWITCH SERIES	AMP RATING	WIRE SIZE		HORSEPOWER				HORSEPOWER			
		MIN	MAX	200/208 V	240 V	460 V	575 V	200/208 V	240 V	460 V	575 V
CY017	20	18	12	5	7.5	10	10	5	5	10	15
CY032	40	16	10	10	15	20	20	10	15	30	30
CY040	60	14	6	15	20	30	30	15	20	40	50
CY063	85	10	3	20	20	30	40	25	30	60	75
CY100	125	6	1	20	25	40	50	40	50	100	125