

Warranty and Return Policy

The IM-PAC Drive is warranted for 1 year from date of receipt. For technical support call CAMCO-FERGUSON (847-215-5658).

Drive Size You will need to determine which size drive you have for proper mounting and wiring.

IMC Part Number	Drive Size	Motor Power	Rating
92C85797010000	A	1 hp 0.75 kW	200-240V Single Phase 48-62 hz input
92C85797020000	B	1 hp 0.75 kW	380-480V Three Phase 48-62 hz input

All section & page numbers below refer to sections of the "Getting Started Guide"

Safety

Read Section 1 "Safety Information" before mounting or wiring the drive.

The STOP and START controls or electrical inputs of the drive must not be relied upon to ensure the safety of the personnel. They do not isolate dangerous voltages from the output of the drive or from any external option unit. The supply must be disconnected by an approved electrical isolation device before gaining access to the electrical connections. The drive contains capacitors that remain charged to a potentially lethal voltage after the AC supply has been disconnected. Wait at least 10 minutes for the stored charge to dissipate. See Section 1.8.4.

Mounting of Drive

The drive is designed to mount to a wall within a control panel or on a DIN rail. For proper functioning, mount the drive with the minimum recommended clearances. See Section 3.

Wiring Motor

The IMC high performance motor can be wired as either 200 or 400 volts. Wire the motor as 200V for the A Size IM-PAC and wire the motor as 400V for the B Size IM-PAC. See Section 4.1 figures 1 or 2. Also see Motor Jumper Configuration below.

Wiring Drive Fuse 200V = 16 A 400V = 6 A per phase

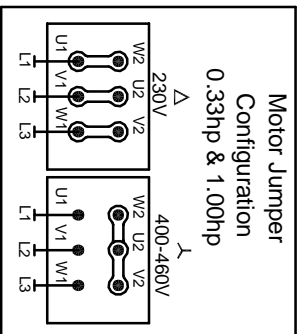
- A) Before starting determine your indexer's geometry - Roller Gear, Right Angle or Parallel. Do not remove internal EMC filter. See Section 4.
- B) The control terminal B2 outputs 24 volts DC and will be used to power the signals. The control terminal B4 is used to enable the drive. As long as B2 and B4 are connected the drive will run. Use a normally closed switch (not supplied by IMC) or jumper between B2 and B4 to enable the drive. The control terminal B5 runs the motor forward and B6 runs the motor in reverse. If the indexer is not turning in the proper direction interchange B5 and B6.
- C) Make sure the indexer is in the middle of its dwell position before starting or stopping the motor. See the diagram on right for the location of the camshaft keyway for the indexer.
- D) The motor is made to run by closing the B2-B5 or B2-B6 terminals. Opening them will stop the motor.
- E) Cycling on demand using a limit switch and inverter duty motor. The normally closed side of the cam shaft limit switch should be wired to terminals B2 and B5 (or B6). When the indexer is in dwell the switch will be open. A start signal is sent by momentarily closing B2 and B5 with an external switch. As the camshaft is turning the limit switch on the cam shaft will close and thus maintain the B2-B5 (or B6) closure. When the indexer enters dwell the trip cam on the cam shaft will cause the limit switch open the B2-B5 (or B6) connection and stop the motor.

Programming The IM-PAC drive is programmed for the IMC 92C49952070000 motor - 230V 60 hz. For a different motor, frequency or voltage you must change the motor parameters. See page 18. Do not Autotune!

hp	kw	IMC Motor	Pr-02 hz	Pr-06 amp	Pr-07	Pr-08 volt	Pr-09 cos Ø
0.33	0.25	92C49952070000	60	1.14	0	230	0.74
0.33	0.25	92C49952070000	60	0.57	0	460	0.74
0.33	0.25	92C49952070000	50	1.14	0	230	0.74
0.33	0.25	92C49952070000	50	0.57	0	400	0.74
1.00	0.75	92C49955410000	60	3.15	0	230	0.79
1.00	0.75	92C49955410000	60	1.9	0	460	0.66
1.00	0.75	92C49955410000	50	3.65	0	230	0.70
1.00	0.75	92C49955410000	50	2.1	0	400	0.70

Disposal

Waste Electrical and Electronic Equipment (WEEE) Directive and the Restriction on the Use of Hazardous Waste (RoHS) Directive do not apply to the IM-PAC drive.

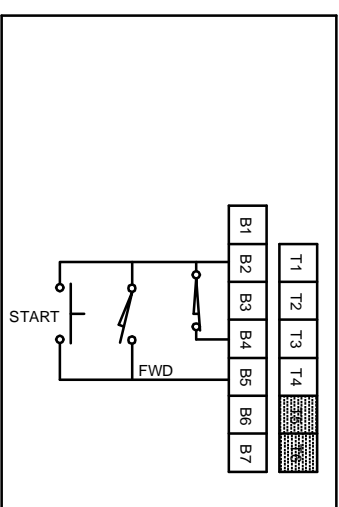


Note:
0.33hp motor is factory preset for 460V
No factory presetting for 1.00hp motor

Additional copies of this document and the "Getting Started Guide" are available at www.camcoindex.com

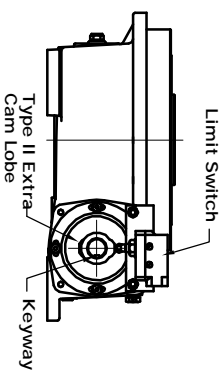
Wiring switches to the IM-PAC Control Terminals (cover has been removed)

CYCLING ON DEMAND USING LIMIT SWITCH AND INVERTER DUTY MOTOR



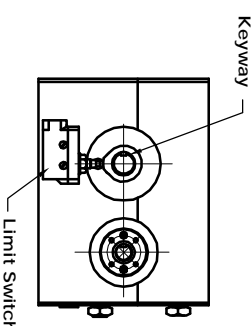
NOTE: B2 - B4 MUST BE CLOSED IN ORDER TO ENABLE DRIVE

Keyway position of a Roller Gear, Right Angle or Parallel Indexer stopped in the middle of dwell. The normally closed limit switch has opened to signal a stop. For an RPP, LPP or WBD see the timing diagram or assembly drawing supplied for the signal cam lobe and camshaft key location for dwell.

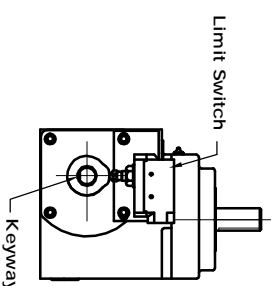


A standard Roller Gear unit with Cam & Limit Switch mounted on the correct keyway position directly opposite of the output shaft, 90 degrees (clockwise) from Cam lobe. The Cam & Limit Switch may also be mounted on the reducer. *If the unit is a "Type II" motion, a special Limit Switch Cam is needed with one extra Lobe, 180 degrees from the first Lobe. (as shown)

A standard Right Angle unit with Cam & Limit Switch mounted on the housing has a correct keyway position directly opposite of the Cam Lobe. Cam & Limit Switch may also be mounted on the reducer.



A standard Parallel unit with Cam & Limit Switch mounted on the housing has a correct keyway position directly opposite the output shaft, 90 degrees (clockwise) from Cam lobe. The Cam & Limit Switch may also be mounted on the reducer.



92C8655600000

DATE	DESCRIPTION OF CHANGE	REV. NO.
07-20-06	REMOVED BRAKE INSTRUCTIONS. F	4

INSTRUCTION DRAWING		CAMCO FERGUSON 144 S. WOLF ROAD WHEELING, ILLINOIS 60090 INDUSTRIAL MOTION CONTROL, LLC.	
TITLE: IM-PAC READ ME FIRST, INSTRUCTIONS		DATE: 02-07-06	SCALE: 1=1
DRAWN BY: DGS	CHECKED:	DATE: 02-07-06	SCALE: 1=1
MATERIAL:		DWG. NO.:	C-86556