

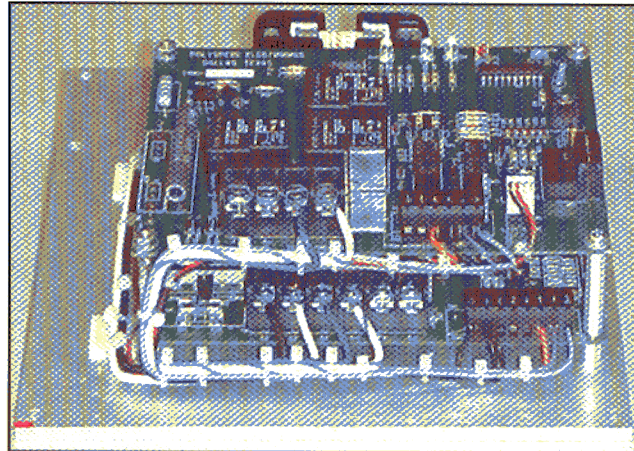


OC2B

SCR DC MOTOR CONTROLS

FEATURES

- * Input with 2 megaohms isolation.
- * Range of control signal capability.
- * Overload protection.
- * Horse Power selections.
- * Bi-directional *(optional)*.
- * Dynamic braking *(optional)*.
- * Fault indicator *(optional)*.
- * SCR protected subcycle fuse
- * External / Internal torque control.
- * Available in open-chassis, NEMA 1, NEMA 4 OR NEMA 12 configurations.
- * Operating ambient temperature -30°C ~ +50°C.



1/8 - 3 HP

Application

POLYSPEDE

6770 TWIN HILLS AVENUE, DALLAS, TEXAS, 75231

(214) 363-7245 (P), (214) 363-6361 (F)

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OC2B Series Specifications

SPECIFICATION	OC2B -115VAC	OC2B -230VAC
E1601-00 CONTROL BOARD		
Input	115 VAC, $\pm 10\%$, 1 \emptyset	230 VAC, $\pm 10\%$, 1 \emptyset
Horsepower (Pin Selectable)	1/8 – 1 HP	1/4 – 5 HP
Input Frequency	50 – 60 Hz	50 – 60 Hz
Output Voltage	0 – 90VDC	0 – 180VDC
Field (Rectified and unfiltered)	100 VDC	200 VDC
Speed Range	0 – 100%	0 – 100%
Load Regulation for 100% Load Change:		
a) With Armature feedback	Adjustable to $\pm 1\%$ of Base Speed	Adjustable to $\pm 1\%$ of Base Speed
b) With Tachometer feedback	Adjustable to $\pm 1\%$ of Base Speed	Adjustable to $\pm 1\%$ of Base Speed
Speed Range for Specified Regulation	20:1	20:1
Speed Dial Characteristics	Linear	Linear
Torque Limit (% of Rated Motor Current)	Approximately 75 to 150% of rated Motor Current Adjustable	Approximately 75 to 150% of rated Motor Current - Adjustable
Maximum Ambient Temperature	40° C	40° C
Control Signals Supported	a. 0 – 5 VDC b. 0 – 6 VDC c. 0 – 10 VDC d. 4 – 20 ma e. 0 – 10 VDC PWM	a. 0 – 5 VDC b. 0 – 6 VDC c. 0 – 10 VDC d. 4 – 20 ma e. 0 – 10 VDC PWM
Min. Speed Adjustment	Internal 0 to + 10%	Internal 0 to + 10%
Max. Speed Adjustment	Internal 70% to 110%	Internal 70% to 110%
IR adjustment	Internal 0 – 10 % boost	Internal 0 – 10% boost
Acceleration	Adjustable 5 - 10 Sec. Nominal	Adjustable 5 - 10 Sec. Nominal
Deceleration	Adjustable 3 - 30 Sec. Nominal	Adjustable 3 – 30 Sec. Nominal
Isolated Input *	2 Meg-ohms	2 Meg-ohms
Torque Program	Internal / External	Internal / External
Tachometer Feedback	0 – 50 VDC or 0 – 100 VDC (depending on motor base speed)	0 – 50 VDC or 0 – 100 VDC (depending on motor base speed)
Duty	Continuous	Continuous
Overload Capacity	150% for 1 minute	150% for 1 minute
Altitude	1000 meters	1000 meters
E1602-00 REVERSING BOARD		
Add-on board	1/8 to 1 HP	1/4 to 3 HP
Maximum Ambient Temperature	40° C	40° C
Power Supply	24 VDC provided by E1601-00	24 VDC provided by E1601-00
Alarm for relay failure	LED blinks 1-5 times to identify relay 1-5	LED blinks 1-5 times to identify relay 1-5
Std options	Start, stop, reverse and forward	Start, stop, reverse and forward
Customized options	Available	Available

* If you require additional isolation, an Iso Volt II can be added. Ask factory for more details.

** Available in open chassis, NEMA 1, NEMA12 or NEMA 4 enclosures.

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