SILICON RECTIFIER POWER
CONVERSION UNITS
FOR
LIFTING MAGNET SERVICE

FILNOR CLASS 4010 TYPE FSR FULL-WAVE SILICON RECTIFIER POWER CONVERSION UNITS PROVIDE A SOURCE OF 230 VDC POWER FOR LIFTING MAGNETS ON AC CRANES AND OTHER INSTALLATIONS WHERE A DC BUS IS NOT AVAILABLE.

- 460/3/60 STANDARD INPUT.
- 3KW TO 100KW CAPACITY, 230 VDC OUTPUT VOLTAGE.
- NEMA I VENTILATED ENCLOSURE.
- DESIGNED FOR CONTINUOUS OPERATION AT 100% RATED LOAD, 150% RATED LOAD FOR ONE (1) MINUTE OR 200% RATED LOAD FOR TEN (10) SECONDS BOTH PRECEDING AND FOLLOWING CONTINUOUS OPERATION AT RATED LOAD.

STANDARD UNIT CONSISTS OF:

3 - SEMICONDUCTOR TYPE FUSES FOR RECTIFIER PROTECTION.
1 - THREE PHASE, DRY TYPE ISOLATING TRANSFORMER WITH TWO (2) 2¼% FULL CAPACITY TAP ABOVE AND TWO (2) 2¼% FULL CAPACITY TAP BELOW NORMAL FOR LINE VOLTAGE ADJUSTMENT.
1 - THREE (3) PHASE, FULL WAVE BRIDGE, SILICON RECTIFIER ASSEMBLY.
1 - SELENIUM SURGE SUPPRESSOR.
2 - D.C. OUTPUT LINE FUSES.

OPTIONAL FEATURES:
A. NEMA 3R ENCLOSURES OR CUSTOM ENCLOSURES.
B. 230/3/60 INPUT, 250 VDC OUTPUT AVAILABLE.
C. FUSED 3-POLE LINE KNIFE SWITCH.
D. 3-POLE LINE CIRCUIT BREAKER WITH EXTERNAL ROTARY OPERATING HANDLE.
E. 3-POLE MAIN LINE AC CONTACTOR WITH TRANSFORMER AND FUSES.
F. 3¼" 0-300 VDC VOLT METER, WIRED AND MOUNTED ON DOOR.
G. 3¼" 50MV AMMETER, WIRED AND MOUNTED ON DOOR, AND AMMETER SHUNT.
H. THERMAL OVERLOAD RELAY WITH 3-HEATERS.
I. START-STOP PUSHBUTTONS, WIRED AND MOUNTED ON DOOR.
J. THERMAL SWITCHES IN TRANSFORMER WINDING.
K. 460/3/60 INPUT, 115 VDC OUTPUT AVAILABLE.
L. ADJUSTABLE DC OUTPUT AVAILABLE.

NOTE: RECTIFIERS USED ON LIFTING MAGNET SERVICE MUST BE SIZED TO SUPPLY CURRENT DRAWN BY A COLD MAGNET (25° C). COLD CURRENT IS GENERALLY RATED 30-50% HIGHER THAN OPERATING CURRENT.
ORDERING INFORMATION REQUIRED:

1. FILNOR CLASS 4010, KILOWATTS REQUIRED.

2. SYSTEM INPUT VOLTAGE, FREQUENCY, AND OUTPUT VOLTAGE.

3. ENCLOSURE TYPE.

4. MAGNET COLD CURRENT.

5. OPTIONS REQUIRED.

ACCESSORIES:
MAGNET CONTROLLER .................................................. CLASS 4130
BATTERY BACK-UP SYSTEMS ........................................... CLASS 4150
UNITIZED ASSEMBLY ................................................... REFER TO FACTORY