



Minarik Drives, a brand of American Control Electronics, has been engineering and manufacturing AC and DC drives for close to 65 years. Ranging from 1/100th to 25 HP, our products can be applied to a variety of motor control applications for packaging, printing, conveyor, home automation, exercise equipment, battery powered vehicle, medical device, actuator control, and various other applications. Drive types include SCR, PWM, Regenerative, Brushless, and DC-to-DC. Models are available in chassis style and various NEMA enclosures. Although Minarik Drives has hundreds of standard drives, their experienced engineering staff can also custom engineer products tailored for your specific application to maximize the efficiency of your system.

WALL VOLTAGE DC DRIVES



For over 60 years, Minarik Drives has led the industry with state-of-the-art motor control solutions for DC motors under 5 HP. Our 1Q and 4Q wall voltage drives are powered from a 115 or 230 VAC input and can be ordered in a variety of configurations and packages. See Table 1 on the reverse side for a list of our wall voltage DC Drives.

WALL VOLTAGE AC DRIVES



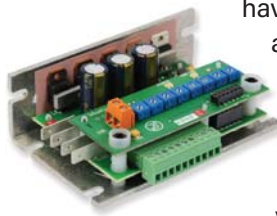
Although rich in DC drive history, Minarik Drives offers more than just DC solutions. Minarik Drives offers a comprehensive line of AC variable frequency drives (VFDs). Product types range from analog chassis drives for sub-fractional horsepower motors, to NEMA enclosed full feature programmable drives up to 10 amps, and several options in between. Our wall voltage AC drives are shown in Table 2 on the reverse side.

LOW VOLTAGE DRIVES



Whether you have a wall voltage or low voltage input, Minarik Drives can provide you with a low voltage DC drive to meet your needs. Utilizing a microprocessor-based design, we can provide configurable parameters, alarm/diagnostic capabilities and custom logic for battery powered devices. See Table 3 on the reverse side for a list of our low voltage drives.

ACTUATOR CONTROLS



Minarik Drives offers a selection of drives that have been configured specifically for actuator control applications. If you require automatic cycling or jog mode, or you are simply looking for a cost-effective positioning solution, Minarik Drives has a variety of options for you. Find your actuator control solution in Table 4 on the reverse side.



MINARIK DRIVES PRODUCT LIST

WALL VOLTAGE DC DRIVES - TABLE 1

Minarik Drives Part Number	Description
EC2	1Q SCR - CHASSIS - 90 VDC - 10 AMPS
C1EC2	1Q SCR - NEMA 1 - 90 VDC - 5 AMPS
MM23001C	1Q SCR - CHASSIS - 90/180 VDC - 10 AMPS
M2-D	1Q SCR - CHASSIS - 90/180 VDC - 11.5 AMPS - FOR 2 MOTORS
M1	1Q SCR - CHASSIS - 90 VDC - 10 AMPS
MC10	1Q SCR - NEMA 4X - 90/180 VDC - 10 AMPS
MDPM07-D230-4Q-PCM	4Q PWM - CHASSIS - 130/240 VDC - 7 AMPS W/ ISOLATION
MMXL10-D240AC	1Q PWM - CHASSIS - 130/240 VDC - 10 AMPS
RG60U	4Q SCR - CHASSIS - 90/180 VDC - 10 AMPS

WALL VOLTAGE AC DRIVES - TABLE 2

Minarik Drives Part Number	Description
UPVFD02-D230AC	VFD - CHASSIS - 115/230 VAC - 2.4 AMPS
UPVFD04-D230AC	VFD - CHASSIS - 115/230 VAC - 4 AMPS
VFD4X04-D230-PCM	VFD - NEMA 4X - 230 VAC - 4 AMPS W/ ISOLATION

LOW VOLTAGE DRIVES - TABLE 3

Minarik Drives Part Number	Description
HTL1.5-D-4Q	4Q PWM - CHASSIS - 115/230 VAC IN, 12/24 VDC OUT - 1.5 AMPS
HTL05-D-4Q	4Q PWM - CHASSIS - 115/230 VAC IN, 12/24 VDC OUT - 5 AMPS
DC60-12/24-4Q	4Q PWM - CHASSIS - 12/24 VDC - 60 AMPS (PEAK)
DC240-36/48-4Q	4Q PWM - CHASSIS - 36/48 VDC - 240 AMPS (PEAK)

ACTUATOR CONTROLS - TABLE 4

Minarik Drives Part Number	Description
HTL05-D-4Q-A	115/230 VAC IN, 12/24 VDC OUT, 5 AMPS, CYCLING W/ LIMIT SWITCHES
HTL05-D-4Q-L	115/230 VAC IN, 12/24 VDC OUT, 5 AMPS, POSITIONING W/ FEEDBACK
DC30-12/24-4Q-A	12/24 VDC IN, 12/24 VDC OUT, 30 AMPS, CYCLING W/ LIMIT SWITCHES
DC30-12/24-4Q-L	12/24 VDC IN, 12/24 VDC OUT, 30 AMPS, POSITIONING W/ FEEDBACK
RG501A	115/230 VAC IN, 90/180 VDC OUT, 10 AMPS, CYCLING W/ LIMIT SWITCHES
RG511A	115/230 VAC IN, 90/180 VDC OUT, 3 AMPS, CYCLING W/ LIMIT SWITCHES