

## ▶ PMSM Motor & Intelligent Driver

### Features

- Motor & driver applicable for Evaporative Cooling Systems with 3500 m<sup>3</sup>/hr., 5000 m<sup>3</sup>/hr. and 7000 m<sup>3</sup>/hr.
- Approved by Niroom Research Institute (NRI)
- High flexibility and custom design
- High efficiency (driver and electromotor) more than 87%
- Significant energy saving for coolers with 50% higher efficiency than induction motors
- No mechanical and electrical changes for installation
- Excellent longer lifetimes due to application of perfect electrical and electronic protection systems
- Soft start
- Ability to control and monitoring of water level, motor speed, ambient and environment temperature, water pump statues, over load and system
- Planning and adjustment capabilities to BMS (Building Management System)
- Active power factor correction with PF more than 0.99
- Sensor-less speed and position control
- Wide range of input voltage (175VAC to 250VAC)

### Evaporative Cooler Motor & Driver Specification

Model (NMPS)	K25	K37	K55
Power Capacity	250 W	370w	550 W
Round Per Minute (RPM)	1500		
Main Control	Intelligent Drive Contoller		
Input Current (A)	1.5	2	3
Input Voltage (VAC)	175-250 (50Hz)		
Efficiency	Up to 87%		
Electro Motor PF	0.99		
Max Cooling (m <sup>3</sup> /h)	4000	6600	8000
Motor IP Compliance	55		

◀ NMPS

