

C FRAME MOTORS - 2 POLE AC SHADED POLE

PRODUCT OVERVIEW

C Frame Motors - 2 Pole AC Shaded Pole is suitable for domestic & commercial appliances including washing machine pumps, fan forced oven kits, refrigeration, heating & ventilation applications.

FEATURES

0.5 to 40W output 240V AC, 50Hz (other voltages and frequencies available on request)

Sintered (sleeve) or ball bearing

Shafts – high carbon or stainless steel

Shaft sizes 1/8 inch, 3/16 inch & 6mm stainless or mild steel

Various mounting options

Multi-speed models available

Double insulated constructions available upon request

Custom designs available

Painted or varnished for corrosion protection

Standard insulation 130 (B class)

Class F insulation on request

Up to 60 degrees ambient temperature operation

UL available on request

Fan blades available

APPLICATIONS

Ventilation

Fan-forced ovens

Gear drive

Blowers

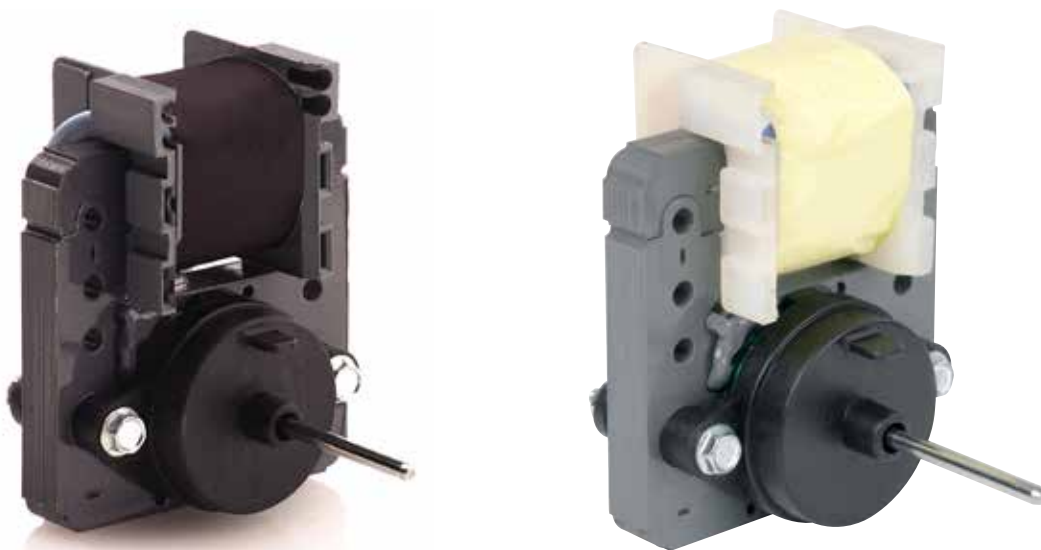
Water recirculation for evaporative cooling

Appliance pumps

Refrigeration

Heating

Air conditioning



EVAPORATIVE COOLER PUMPS

PRODUCT OVERVIEW

Evaporative pump is a recirculating pump for evaporative cooler applications. Designed to suit Australian conditions. Available in 4 sizes.

FEATURES

Proven reliability

10 to 30 litres per minute at 1600mm head

Maximum head 3,000 mm / maximum flow 40 litres per minute

Ball bearing

Stainless steel shaft

Splash proof cover

Continuous S1 duty

Auto reset over temperature protected

Custom OEM designs available upon request

Optional filter basket available

Standard 240V 50Hz

APPLICATIONS

Evaporative coolers



**FAN MOTOR
5 SERIES (ROUND) & 55 SERIES (SQUARE)**

PRODUCT OVERVIEW

5 Series (240V 50Hz 4 Pole) Shaded Pole Fan Motors are designed to meet a variety of continuous airover duty (AOM) applications in the refrigeration and air movement markets. Multiple mounting points to suit most applications

FEATURES

5 SERIES (ROUND)	55 SERIES (SQUARE)
2 Pole and PSC combinations available	2 Pole and PSC combinations available
Output range 10 to 60W	Output range 5 to 34W
B Class rise, F Class on request	B Class rise, F Class on request
IP2X construction	IP4X construction
Various mounting options	Painted as standard
Custom designs available upon request	Custom designs available upon request
Double, fan hub or bare shaft options	Double, fan hub or bare shaft options
Auto reset or impedance over temperature protected	Auto reset or impedance over temperature protected
Painted stack option available for improved corrosion protection	
Ball bearing	

APPLICATIONS

General purpose air movement
Refrigeration evaporators & condensers
Wood heaters
Drink agitators
Welding machines
Medical equipment
Pumps
Plus much more



**POOL & SPA MOTORS 'AQUADRIVE'
6 & 7 SERIES**

PRODUCT OVERVIEW

Pool & Spa motors designed and developed in Australia

FEATURES

6 SERIES

Output range 200 to 800W
– Single Phase & Three Phase

7 SERIES

Output range 750 to 1750W
– Single Phase & Three Phase

Quiet operation

Rain proof / water resistant TEFC construction

Auto reset over temperature protection

NEMA & B56 flanges available

303 stainless steel shaft for superior corrosion resistance

Standard 240V 50Hz (single phase) / 415V 50Hz (three phase)

UL 115/230V 60Hz (single phase) available on request

Custom designs available

Meets or exceeds US, European and Australian standards

CE and TUV approved

Heavy duty rubber shielded ball bearings

Available in various centre heights

Anti-condensation drain holes

APPLICATIONS

Pool pump filtration

Spa baths

Outdoor spas

Transfer pumps

Irrigation



38, 42 & 48 FRAME MOTORS

PRODUCT OVERVIEW

HVAC motors are designed to suit South East Asia Pacific conditions.

FEATURES

Heavy duty ball bearing

Quiet operation

Rain-proof / water resistant optional

Vented, enclosed or weatherproof versions

Auto-reset over temperature protected

Various shaft options

Output range for 20 to 1200W

Various mounting designs

Single or double shaft

Custom designs available upon request (mounting kits)

Rust protected shaft

IP 2X – 4X

Condensing units

240V 50Hz, 4 & 6 pole single phase

415V 50Hz (three phase) other voltages and frequencies available on request

Permanent split capacitor (PSC), resistance start

Induction run (RSIR) or 3 phase

Single, multiple and variable speed variations

IEC, VDE, UL insulation systems available on request

APPLICATIONS

Heating market

Air conditioning

Fan coil indoor units

Condensing fans

General purpose air movement

Evaporative coolers

Plus much more



**MULTI PURPOSE MOTORS
HEAVY DUTY 56 FRAME**

PRODUCT OVERVIEW

Multi purpose motors are available in heavy rolled steel shell or aluminium ribbed construction foot mount designs for use in multiple applications

FEATURES

Heavy duty rolled steel shell or aluminium ribbed construction

Reversible, single phase, three phase options

Class F insulation

Heavy duty centrifugal switch

Thermal overload protection

Heavy duty, long life, high temperature ball bearings

240V 50Hz (single phase)

Custom designs available

Output power range 250 to 2200W

Various mounting designs

Available in TEFC or DP configurations

Optional 415V 50Hz (three phase) 2, 4 & 6 pole

Proven reliability

Tradesmans choice

APPLICATIONS

Air compressors

Bricksaws

General purpose belt driven applications

Cement mixers

Floor polishers

Water pumps

Evaporative coolers

Plus much more





IMPRESSIVE ALL ROUND WORLD FIRST AXIAL FLUX AIR MOVEMENT BLDC MOTORS

PRODUCT OVERVIEW

The imPress™ motor is the latest generation axial flux brushless DC motor offered by Regal Australia. Designed for direct drive blower and fan applications it is ideally suited for markets including gas heaters, condenser motors, evaporative air conditioning and other air movement applications.

The imPress™ technology has its origins in the motor developed for use in the Australian solar car “Desert Rose” from Charles Darwin University. Included among several awards was the prestigious General Motors award for Technical Innovation won in the World Solar Challenge.

The axial flux motor technology is also used in the water pumping industry. imPress™ provides higher efficiency, lower operating costs, noise and CO2 emissions in a smaller, more compact package. With advanced features such as airflow control the motor can provide improved indoor air quality, energy savings, reduced noise and comfort for the end user.

FEATURES	APPLICATIONS
Compact length	Domestic and light commercial HVAC applications
Slow ramp up/down resulting in less noise	Evaporative air conditioners
High efficiency operation throughout speed range	Condenser applications
Constant airflow or constant torque	Designed for direct-drive blower and fan applications
Programmed/adjustable variable airflow or torque	
Programmable off & on delay/wide ramping range	
ECM Toolbox™ based programming software	



SPECIFICATIONS
Axial flux, NdFeB, brushless DC motor
120/240VAC single-phase input, 50/60Hz
125W to 1080W (S1 cont.duty)
Rated efficiency ~82%, peak efficiency ~84%
Variable speed, torque controlled. Operating speed range of 200-1500 rpm
Communication input options include low voltage AC/DC taps or fully variable PWM & 0-10V control
NEMA 48 frame, sealed or vented
Motor length 116mm including electronics
Resilient mounting double shaft available
Drop in replacement for PSC

BENEFITS
Running cost savings up to \$105 p.a. over conventional induction motors
Low noise across wide speed range eliminating triac and induction motor noise
Customised home comfort profiles depending on geographic climate
Low speed operation enables efficient dehumidification and constant fan mode
Programmable – using the latest version of ECM Toolbox™, OEM customers can easily create motor programs for different markets and regions

Please contact Regal Australia for all assumptions in calculating savings.

imPower™

WORLD FIRST - AXIAL FLUX BRUSHLESS PUMP MOTORS

PRODUCT OVERVIEW

imPower™ integrates Regal axial flux permanent magnet motor technology with a light weight aluminium construction.

FEATURES	BENEFITS	TECHNICAL SPECIFICATIONS
Axial flux BLDC design	Lower operating costs	Output power (max) 2.0 HP
3 speed operation	Lower CO2 emissions	Voltage 230V to 240V
Variable speed option	Lower noise	Torque 2.5N-m
High efficiency	Smaller environmental foot print	Compact length
Compact design		TEFC construction
Low weight		Speed range 500 to 3450 rpm
Based on solar car technology		Ball bearings systems
		Axial flux permanent-magnet brushless-DC

APPLICATIONS

- Pool pumps
- Booster pumps

