

# CWT SERIES GENERAL PURPOSE AND CWTC SPECIAL APPLICATION MOTORS

NOVEMBER 2021 | AUSTRALIA AND NEW ZEALAND



# TABLE OF CONTENTS

**FEATURES AND APPLICATIONS**  
page 2 - 3

**EVAPORATIVE COOLER MOTORS**  
page 4

**COMPRESSOR DUTY MOTORS**  
page 5

**BRICKSAW MOTORS**  
page 6

**CEMENT MIXER /  
SPLIT PHASE MOTORS**  
page 7

**FAN SERIES MOTORS**  
page 8

**GRAIN FEEDER MOTORS**  
page 9

**SEWAGE AERATION MOTORS**  
page 10

**GENERAL PURPOSE MOTORS**  
page 11

**PUMPING MOTORS**  
page 12

**BRAKE MOTORS**  
page 13

**SPARE PARTS**  
page 14

**PERFORMANCE DATA**  
page 15

**DIMENSION DRAWINGS**  
page 16

**TECHNICAL DATA**  
page 17



# CWT AND CWTC MOTOR RANGE

The CWTC special application motor range by Regal Rexnord Australia offers complete customisation to suit your application needs.

The CWT & CWTC motors are designed and tested by our experienced engineering team, allowing for rapid prototyping. The motors are manufactured in our modern Regal Rexnord facility, using state of the art machines and production techniques. Complimentary to the CWTC special application range is the general purpose CWT range of standard motors.

## FEATURES

### Versatile Components

The success of the CWTC range is based around its configurable mechanical and electrical components which can be combined to match the needs of your application.

Terminal, capacitor, and other switch boxes offer many possibilities for electrical connection. The standard terminal box offers four lead entry points, two cable clamps, plus two conduit entries. Special shaft designs, and materials including stainless steel, are available on request.

### Mounting Options

The CWTC range can be designed in all standard motor mounting arrangements and combinations including foot (B3), flange (B5), foot/flange (B3/B5), face (B14), and foot/face (B3/B14).

Special mounting requirements can also be accommodated, including pad mounting, resilient mounting, and special endshields with mounting studs and screws.

### Surface Finish

A full spectrum of colours is possible. Popular colours include Hammertex Grey (standard CWT range), Royal Blue, Satin White, and Signal Red.

Special paint systems are available when stringent specifications must be met, including corrosive environments involving acids, salt water, extreme climates, and other demanding conditions.

### Built To Standard

The main dimensions and rated outputs of CWT & CWTC motors generally conform to Australian standard AS1359, international standard IEC60072 (metric frames) and British standard BS2048 (imperial B56 frame)

### Winding design

Special starting and running requirements in both torque and speed properties can be designed and produced in-house, including:

- Split phase
- Cap Start Induction Run (CSIR)
- Cap Start Cap Run (CSCR)
- Permanent Split Capacitor (PSC)
- Three phase

Other winding feature options also include:

- Multi-speed designs
- 2, 4, 6, 8 & 12 pole (500 - 3000 r/min)
- Non-standard voltages and frequencies
- Intermittent duty windings
- Torque and high slip windings.

Most motors come standard with F class insulation and B class (80K) temperature rise. Alternatives are also available.

### Protection and Cooling

Ingress protection comes standard as IP44. (Ratings up to IP56 are available.)

Electrical and/or thermal overload protection can be designed as either auto reset (internal and external) or manual reset (external).

The motor cooling method is an important consideration in relation to both ingress and overload protection. Cooling options include:

- Totally enclosed fan cooled (TEFC) - standard
- Drip proof fan cooled (DPFC)
- Totally enclosed surface cooled (TESC)
- Totally enclosed air over motor (TEAOM).

# APPLICATIONS



Cement Mixers



Compressors



Floor Polishers



Brick Saws

**Regal Rexnord Australia's knowledge and experience in motor design covers many common industrial applications.**

Along with our stocked CWT general purpose range, the CWTC range offers a ready solution to numerous applications in a variety of different industries.

## THE EXTENSIVE LIST OF APPLICATIONS ALSO INCLUDES:

- ▶ Industrial washing machines
- ▶ Farming equipment
- ▶ Wood lathes
- ▶ Gearboxes
- ▶ Refrigerated containers
- ▶ Evaporative coolers
- ▶ Materials handling
- ▶ Catering equipment
- ▶ Drill presses
- ▶ Brake motors
- ▶ plus many more.



Sewage Aeration



Centrifugal and Axial Fans



Pool and Spa Pumps



Two Speed Saws



Shearers Grinders



Grain Feeders



Hydraulic Hoist



General Purpose

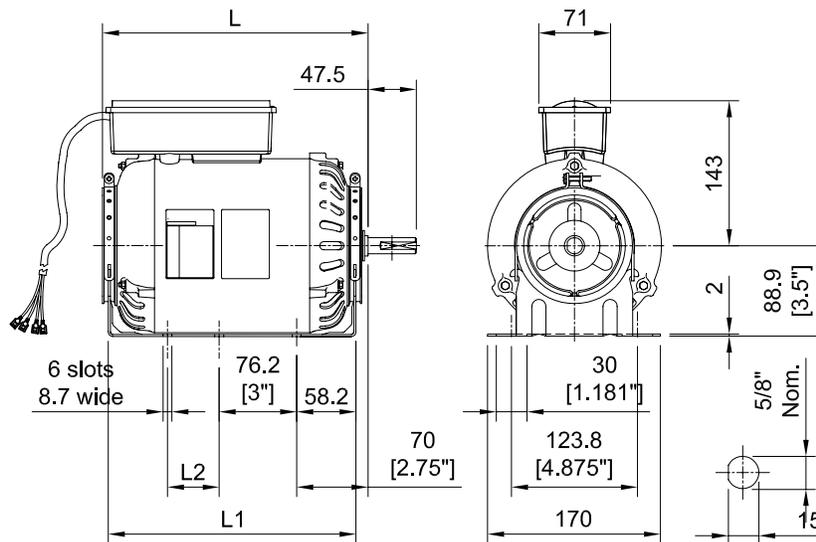
# EVAPORATIVE COOLER MOTORS

The Marathon® Evaporative Cooler motor series is a trusted and proven design for reliability and performance within the cooler industry. The motors are designed locally for the toughest Australian conditions.

Motor designs are dual or variable speed to suit a variety of air movement applications. Flexibility in the design process enables motors to be manufactured to customer specified designs. Standard motors are single phase. Other power ratings and three phase versions are available on request.

## FEATURES:

- Resilient mount
- Fully interchangeable with other brands
- Drip proof with internal cooling fan
- In-winding auto-reset thermal overload protection
- Efficient 240V 50Hz single phase PSC winding design
- Low noise
- B56 motor frame
- Reversible
- Full protection against corrosion of motor and cradle (zinc plated)



## MOTOR SPECIFICATIONS

Product Code	Output kW	Full Load AMPS	Speed RPM	Variable or Dual Speed	Standard Rotation Direction	Dimensions		
						L [mm]	L1 [mm]	L2 [mm]
CWTC4031C	0.35	2.7/1.5	1380/900	Dual	ACW	237	218	25.4
CWTC4031D	0.57	3.7/2.2	1380/900	Dual	ACW	263	244	50.8
CWTC4031E	0.79	5.2/3.5	1400/1050	Dual	ACW	288	269	76.2
CWTC4031F	1.26	7.5/5.3	1400/1090	Dual	ACW	288	269	76.2

When used with speed varying device, speed is variable from the rated speed down to a recommended minimum of 600r/min. For CWTC4031B and CWTC4031F the front endshield is slotted through 360° (all others are slotted through 120°).

For more detailed drawings please contact your nearest Regal Rexnord Australia office.

Motor Specification and Dimensions to be reviewed for the application. Any variations/queries to be sent to Regal Rexnord Australia.

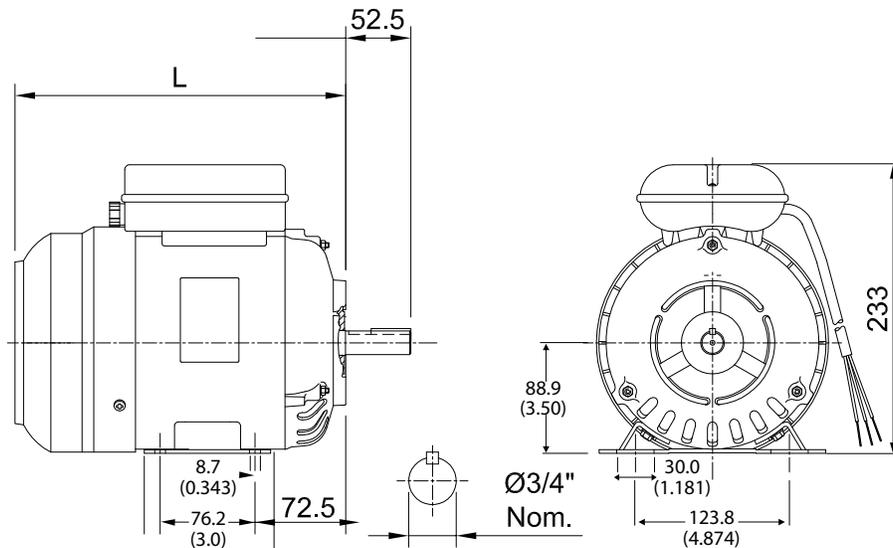
# COMPRESSOR DUTY MOTORS

The Marathon® Compressor motor series is designed and manufactured to meet demanding applications where the need for high starting performance, reliability, and flexibility is paramount.

Compressor motors are available in single phase with rated output powers available from 1.5 KW (S1 Duty) / 1.65 KW (Compressor Duty) and 2.2 KW (S1 Duty) / 2.4 KW (Compressor Duty)

## FEATURES:

- Heavy duty centrifugal switch
- High starting torque CSCR design
- TEFC or DPFC cooling designs
- Rolled steel case with steel B56 base
- Manual reset thermal overload protection
- Easy 240V single phase connection via supplied lead from top cap box.



## MOTOR SPECIFICATIONS

Product Code	Output kW	Full Load AMPS	Speed RPM	Standard Rotation Direction	Reversible	Cooling	3 Core Lead	L [ mm ]
CWTC3971B	1.5/1.65	8.2/9.0	2840/2820	ACW	YES	TEFC	0.58m / 10A	278
CWTC3971E	2.2/2.4	12.6/13.6	2860/2840	ACW	YES	TEFC	0.87m/15A	304

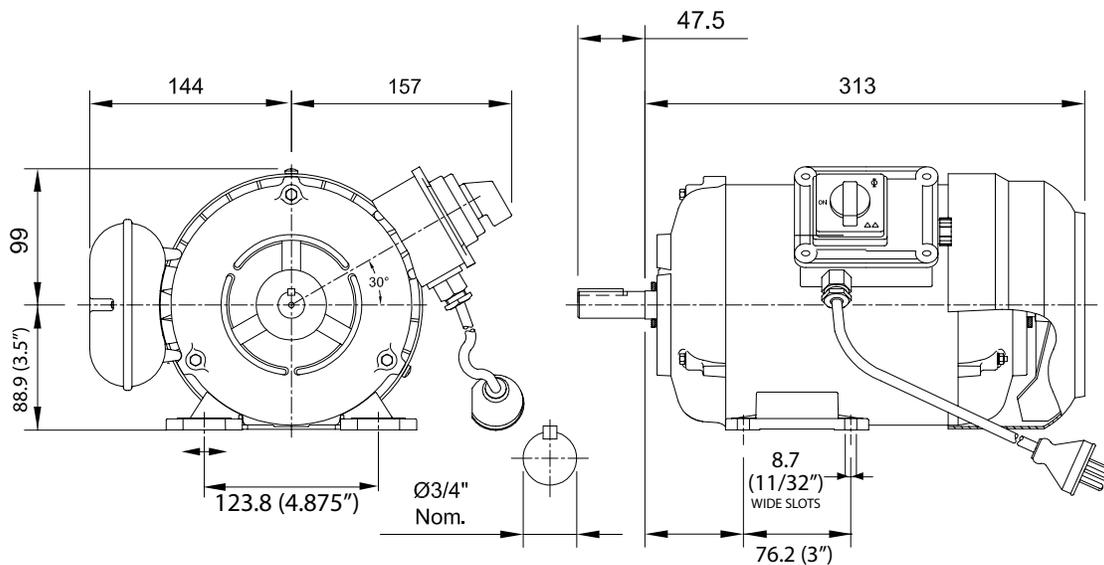
For more detailed drawings please contact your nearest Regal Rexnord Australia office.  
Motor Specification and Dimensions to be reviewed for the application. Any variations/queries to be sent to Regal Rexnord Australia.

# BRICKSAW MOTORS

The custom-built Marathon® Bricksaw motor series are specially designed to have higher torque characteristics needed for demanding saw applications. Regal Rexnord Australia Bricksaw motors have a proven track record in the industry and are renowned for their reliability and premium quality.

## FEATURES:

- High starting torque CSCR design
- Motor-mounted heavy duty on/off switch
- 240V single phase
- 2 metre flex & 10 Amp clear plug supplied
- Manual reset overload protection
- IP55 protection against dust and water ingress
- Extra rating label inside capacitor box for easy identification



MOTOR SPECIFICATIONS						
Product Code	Output kW	Full Load AMPS	Speed RPM	Standard Rotation Direction	On/Off switch position	
CWTC3637D	1.7	9.6	2880	CW	RHS	
CWTC3766B	1.7	9.6	2880	ACW	LHS	

The rotation of these motors is fixed for safety reasons.

For more detailed drawings please contact your nearest Regal Rexnord Australia office.

Motor Specification and Dimensions to be reviewed for the application. Any variations/queries to be sent to Regal Rexnord Australia.

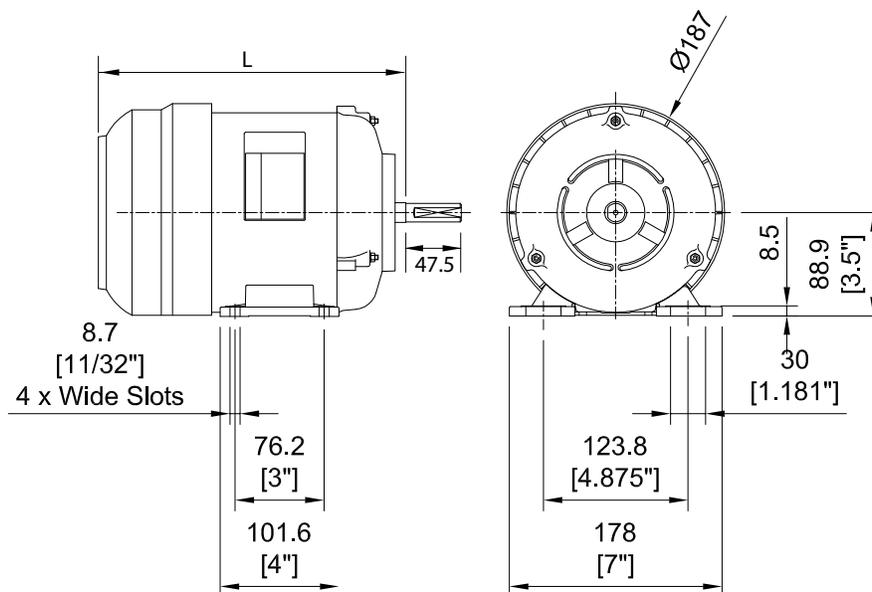
# CEMENT MIXER / SPLIT PHASE MOTORS

The Marathon® general purpose Split Phase motor series is ideal for domestic, commercial and light industrial applications. Common uses include cement mixers, drill presses and light duty machinery.

This single phase workhorse comes standard in 0.56kW, and is available in other rated output powers on request. With motors in the field as old as 50 years, this well-proven long-standing design performs day in day out without missing a beat.

## FEATURES:

- Double pole on/off switch
- Comes standard with flex & clear plug fitted
- TEFC cooling
- IP44 protection against dust and water ingress (IP55 available upon request)
- Rolled steel case with steel B56 base
- Manual reset thermal overload protection
- 240V Single phase Split Phase winding design



## MOTOR SPECIFICATIONS

Product Code	Output kW	Full Load AMPS	Speed RPM	Standard Rotation Direction	Reversible	Lead Length [ m ]	T/box position	Base	L [ mm ]
CWTC3572A	0.56	5.0	1430	CW	YES	3.0	Top	Steel	251
CWTC3572E	0.56	5.0	1430	CW	YES	0.3	Top	Aluminium	261.5
CWTC3705C	0.56	5.0	1430	ACW	YES	0.3	RHS	Aluminium	264

For more detailed drawings please contact your nearest Regal Rexnord Australia office.

Motor Specification and Dimensions to be reviewed for the application. Any variations/queries to be sent to Regal Rexnord Australia.

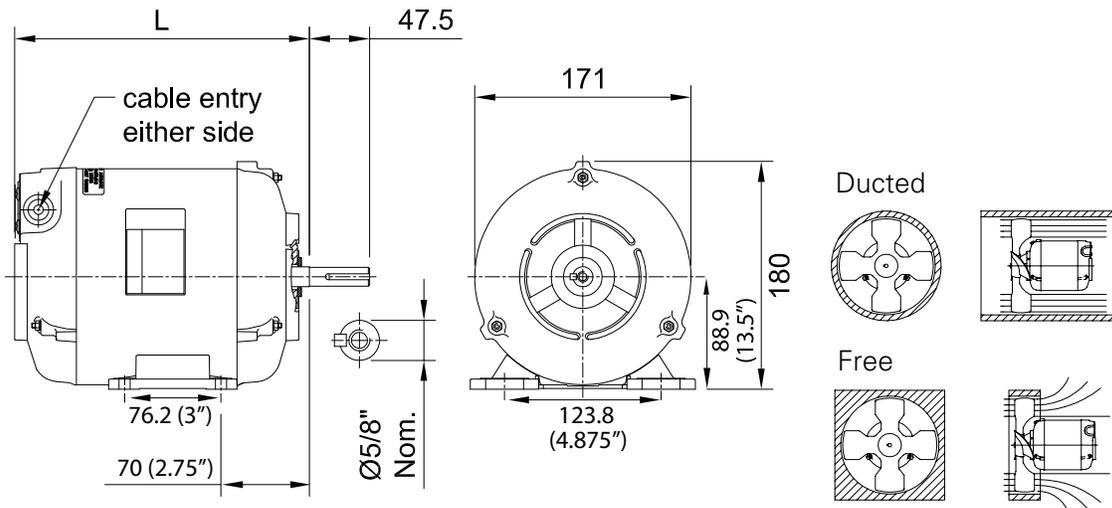
# FAN MOTORS

Specifically designed for fan applications, the Fan series is available in both single and three phase versions, with rated output powers from 0.37kW to 0.75kW. Motors are a fixed speed design to suit a variety of air movement applications.

Flexibility in our design process enables us to manufacture motors to suit your needs.

## FEATURES:

- Single and three phase models
- Efficient PSC winding design (single phase models)
- IP55 protection against dust and water ingress
- Reversible
- Low noise
- In-winding auto-reset thermal overload protection (single phase models)
- TEFC or TEAOM cooling options



## MOTOR SPECIFICATIONS

Product Code	Output kW	Connection	Full Load AMPS	Speed		Standard Rotation Direction	L [ mm ]	Design
				RPM	Variation			
CWTC3626A1	0.37	1Ø	3.0	1400	Fixed	CW	234	TEAOM
CWTC3626D1	0.37	1Ø	2.2	930	Fixed	CW	234	TEAOM
CWTC3626B1	0.56	1Ø	3.5	1420	Fixed	CW	234	TEAOM
CWTC3626C1	0.75	1Ø	5.8	1415	Fixed	CW	234	TEAOM
CWTC3626H	0.37	3Ø	1.2	1410	Fixed	ACW	234	TEAOM
CWTC3626J	0.72	3Ø	2.0	1400	Fixed	CW	234	TEAOM

When used with a speed varying device, the speed is variable from the rated speed down to a recommended 600r/min minimum. Values correspond with Ducted/Free air movement applications. (See diagram below.)

For more detailed drawings please contact your nearest Regal Rexnord Australia office. Motor Specification and Dimensions to be reviewed for the application. Any variations/queries to be sent to Regal Rexnord Australia.

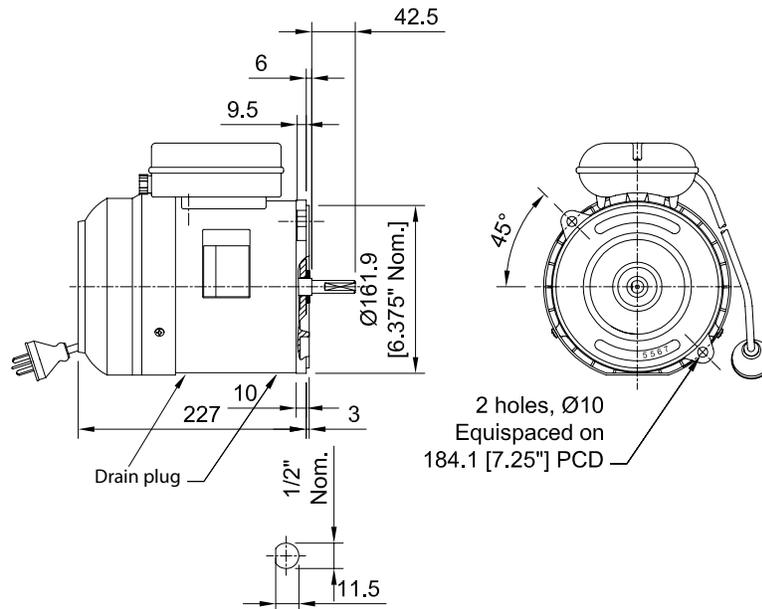
# GRAIN FEEDER MOTORS

Specifically designed for feeder applications, the Marathon Grain Feeder motor series is available in both single and three phase versions, with rated output powers from 0.37kW to 0.75kW.

The Marathon Grain Feeder motor's rolled steel body is designed to avoid the build up of harmful contaminants that occurs on finned body motors. Porous drain plugs fitted allow any moisture or condensation to escape, avoiding any possibility of water build up inside the motor.

## FEATURES:

- Proven to last
- Smooth rolled steel case
- High starting torque CSCR winding design (single phase)
- TEFC cooling
- IP55 protection against dust and water ingress
- Reversible
- NEMA "oil burner" flange
- Manual reset thermal overload protection (single phase models)



MOTOR SPECIFICATIONS						
Product Code	Output kW	Full Load AMPS	Speed RPM	Standard Rotation Direction	Voltage	3 Core Lead
CWTC3910A	0.37	2.5	1380	ACW	240	0.69m/10A
CWTC3910B	0.56	3.3	1400	ACW	240	0.69m/10A
CWTC3910C	0.75	4.5	1410	ACW	240	0.69m/10A
CWTC3910H	0.72	2.0	1400	CW	415	-

Single phase models are fitted with a 0.69m flex & plug.

For more detailed drawings please contact your nearest Regal Rexnord Australia office.

Motor Specification and Dimensions to be reviewed for the application. Any variations/queries to be sent to Regal Rexnord Australia.

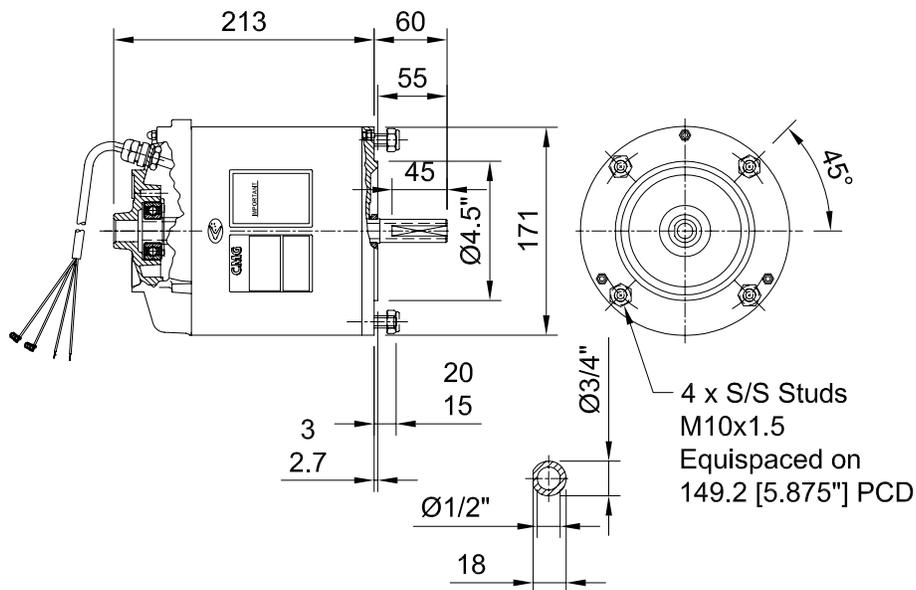
# SEWAGE AERATION MOTORS

The purpose built Sewage Aeration motor series is a Regal Rexnord Australia original and remains the dominant market leader. The motor boasts a proven track record within the industry for reliability and premium quality.

The special hollow stainless steel shaft design and protective coating gives a perfectly adapted motor for this application.

## FEATURES:

- Proudly designed in Australia
- Special marine grade epoxy coating
- IP56+ protection against water and dust ingress
- 240V single phase
- Efficient PSC winding design
- TESC cooling
- Shaft and all mounting attachments are stainless steel



## MOTOR SPECIFICATIONS

Product Code	Output kW	Full Load AMPS	Speed RPM	Standard Rotation Direction	Flex	Capacitor
CWTC3635D	0.12	1.00	2925	ACW	1850m/ 3 core	Internal, high temp
CWTC3635E	0.12	1.00	2925	ACW	3030m/ 4 core, with quick connectors	External

For more detailed drawings please contact your nearest Regal Rexnord Australia office.  
 Motor Specification and Dimensions to be reviewed for the application. Any variations/queries to be sent to Regal Rexnord Australia.

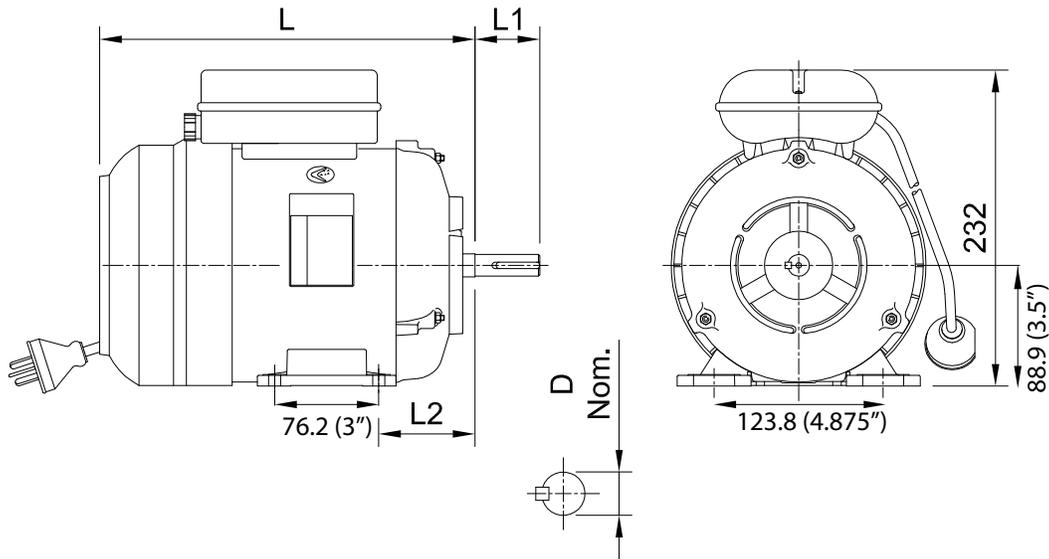
# GENERAL PURPOSE MOTORS

The Marathon® General Purpose motor series is a strong performer, ideally suited for most general applications. The series is designed to suit domestic, commercial and industrial applications. With no wiring necessary, it is simple and convenient to use.

Available in single phase with rated output powers from 0.37kW to 1.5kW continuous duty.

## FEATURES:

- High starting torque CSCR winding design
- TEFC cooling
- IP44 protection against dust and water ingress
- IP55 available upon request
- Heavy Duty rolled steel case with B56 base
- Manual reset thermal overload protection
- 240V single phase with 2 metre flex & clear 10A plug standard



## MOTOR SPECIFICATIONS

Product Code	Output kW	Full Load AMPS	Speed RPM	Standard Rotation Direction	Reversible	Shaft Size D	L [ mm ]	L1 [ mm ]	L2 [ mm ]
CWTC3703A	0.37	2.5	1400	CW	YES	5/8"	275	47.5	69.8
CWTC3703B	0.56	3.3	1390	CW	YES	5/8"	275	47.5	69.8
CWTC3703C	0.75	4.5	1410	CW	YES	5/8"	275	47.5	69.8
CWTC3708A	1.10	6.0	1425	CW	YES	3/4"	317	52.5	61.5
CWTC3708B	1.50	8.2	1425	CW	YES	3/4"	317	52.5	61.5

For more detailed drawings please contact your nearest Regal Rexnord Australia office.

Motor Specification and Dimensions to be reviewed for the application. Any variations/queries to be sent to Regal Rexnord Australia.

# PUMPING MOTORS

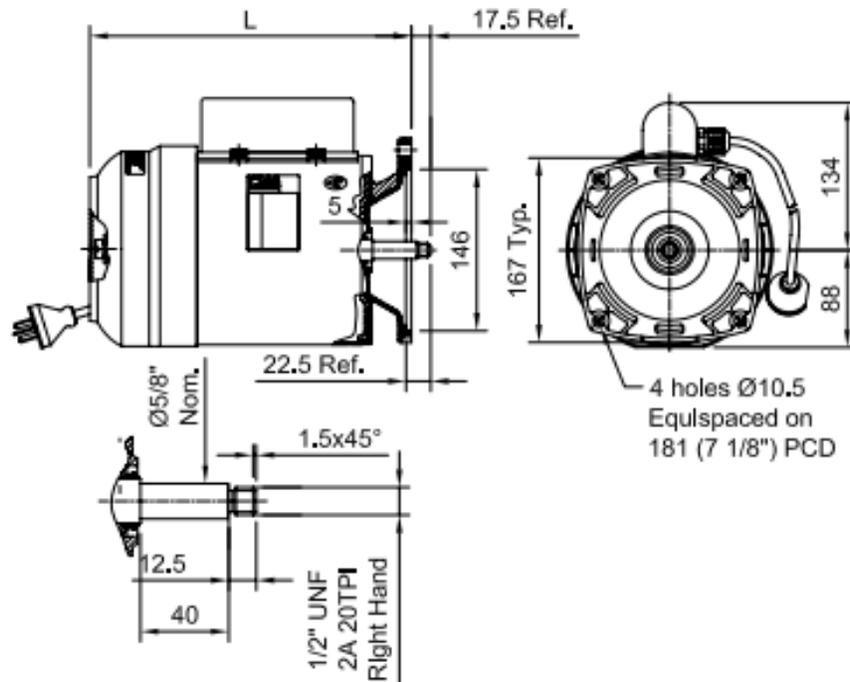
Specifically designed for a variety of pump applications, Marathon® Motor Pump motor series is available in single phase with rated output powers from 0.75kW to 2.0kW.

Our flexible design process gives us the capability of manufacturing motors with special flange and shaft arrangements to meet specific customer requirements.

Swimming pool and spa motors are certified to the latest and most stringent standards (AS/NZS 60335).

## FEATURES:

- Full length stainless steel shaft with protected screwdriver slot in rear
- Painted black as standard (other colours available on request)
- Overload protection
- Slimline single capacitor box
- IP44 protection against dust and water ingress
- Efficient 240V single phase PSC winding design
- Products are made to meet customer's needs/ applications.



Above dimensions are just an example of product we can offer.  
For more information and new designs, please contact your nearest Regal Rexnord site.

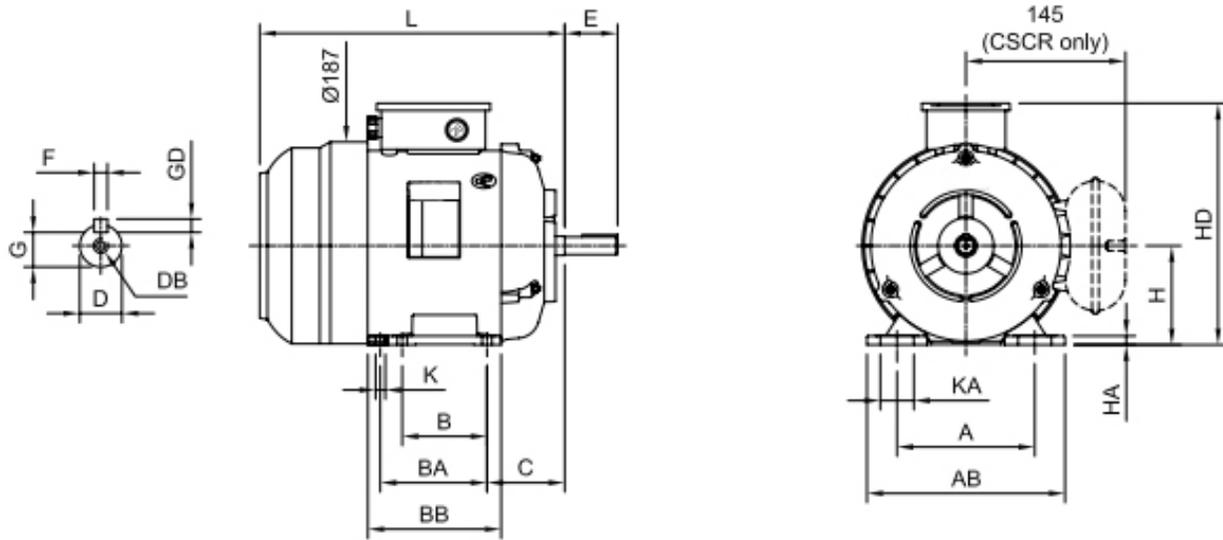
# BRAKE MOTORS

Regal Rexnord Australia offers a variety of light industrial Brake motors, available in single phase version with rated output power from 0.37kW to 1.7kW.

Brake motors are designed for use in applications requiring rapid stopping, holding and position control. Any standard motor from our CWT range can be manufactured with an electro-magnetic brake fitted.

## FEATURES:

- Quality MAYR electro-magnetic DC brake fitted
- Compact design
- Fail safe design - brake engages when power is interrupted
- Fast acting brake
- Self adjusting



## MOTOR DIMENSIONS

Motor Frame	A	AB	B	BA	BB	C	D	DB	E	F	GD	G	H	HA	HD	K	KA	L
<b>B56</b> -5/8"	123.8	182	76.2	-	101.6	70.0	15.875	-	47.5	4.76	4.76	13.2	88.9	-	219	8.7	30	332
<b>D90</b> -24	140	170	100	125	155	56	24	M8	50	8	7	19.8	90	12	218	11	-	421

## MOTOR SPECIFICATIONS

Product Code	Output kW	Connection	Frame	Mounting	Brake Torque (Nm)			Brake Torque (% of full load)		
					Min	Norm	Max	Min	Norm	Max
CWTB240751	0.75	1Ø	B56	B3	2.8	8	10	55%	160%	200%
CWTB241701	1.7	1Ø	D90	B3	5.5	16	20	50%	140%	175%

Not all brake motors are stocked, minimum order quantities may apply.

For more detailed drawings please contact your nearest Regal Rexnord Australia office.  
Motor Specification and Dimensions to be reviewed for the application. Any variations/queries to be sent to Regal Rexnord Australia.

# SPARE PARTS

Spare parts listed are used on standard CWT motors and many CWTC special application motors. For all other spare parts please contact your nearest Regal Rexnord Australia office.



## CAPACITORS & OVERLOADS

Product Code	Start Capacitor [ $\mu$ F/volts ]	Run Capacitor [ $\mu$ F/volts ]	Manual Reset Overload Part Number
CWT14075	-	-	732-887M04
CWT22056	40-50/320	14/450	732-887M06
CWT22075	50-63/320	20/450	732-887M02
CWT22110	80-100/320	25/450	732-887M04
CWT22150	108-130/250	25/450	732-887M22
CWT22220	160-200/250	40/400	732-887M16
CWT24037	31-40/320	12.5/450	732-887M13
CWT24056	31-40/320	16/450	732-887M06
CWT24075	63-80/320	20/450	732-887M02
CWT24110	80-100/320	25/450	732-887M04
CWT24150	100-125/250	25/450	732-887M14
CWT24170	125-160/250	25/450	732-887M14
CWT24220	125-160/250	25/450	732-887M21
CWT26037	40-50/320	14/450	732-887M13
CWT26075	80-100/250	16/450	732-887M09
CWT26110	100-125/250	25/450	732-887M04

Note: All start capacitors are fitted with discharge resistors.



## BASES

Product Code	Description
794-55730	B56 aluminium base
794-554911	D90 aluminium base
794-52190	B56 pressed steel base
794-52110	D90 pressed steel base



## FANS

Product Code	Description
788-555617A	Black plastic 17mm bore fan



## COWLS

Product Code	Description
792-5448BH	Black plastic cowl
792-5450GH	Grey plastic cowl (std on brake motors)



## CAPACITOR BOXES

Product Code	Description
800-50640B	Black capacitor box base
800-50650B	Black capacitor box lid



## TERMINAL BOXES

Product Code	Description
800-5090TB	Black plastic terminal box base overload
800-50910B	Black plastic terminal box lid
800-50900B	Black plastic terminal box base

# PERFORMANCE DATA

## STANDARD PRODUCTS

Product Code	kW	Motor Frame		Speed	Efficiency [%]	Power Factor	Current		Torque			Weight of Foot Mount Motor [ kg ]
		B3	B5				Full Load [ A ]	Locked Rotor	Full Load [ Nm ]	Locked Rotor	Break Down	
<b>SINGLE PHASE - SPLIT PHASE - 240V 50Hz</b>												
<b>1500 r/min = 4 poles</b>												
<b>CWT14075<sup>1)</sup></b>	<b>0.75</b>	B56	–	1425	67.0	0.72	6.5	6.5	5.0	1.5	2.0	14

<b>SINGLE PHASE - CSCR - 240V 50HZ</b>												
<b>3000 r/min = 2 poles</b>												
<b>CWT22056F</b>	<b>0.56</b>	–	D71	2770	68.7	0.99	3.5	3.7	1.9	1.9	1.5	12
<b>CWT22110</b>	<b>1.1</b>	B56	–	2850	75.9	0.97	6.2	4.7	3.7	2.1	1.8	17
<b>CWT22150<sup>1)</sup></b>	<b>1.5</b>	D90	–	2840	79.2	0.97	8.2	4.9	5.0	2.0	2.1	19
<b>CWT22220<sup>1)</sup></b>	<b>2.2</b>	D90	–	2870	80.9	0.97	11.6	6.1	7.3	1.7	2.5	21.5
<b>1500 r/min = 4 poles</b>												
<b>CWT24037F</b>	<b>0.37</b>	–	D71	1400	66.2	0.97	2.4	4.5	2.5	2.5	1.6	9
<b>CWT24056F</b>	<b>0.56</b>	–	D80	1400	73.0	0.97	3.3	3.7	3.8	1.9	1.6	12
<b>CWT24075F</b>	<b>0.75</b>	–	D80	1410	75.7	0.96	4.3	5.0	5.1	2.2	2.1	13
<b>CWT24110</b>	<b>1.1</b>	D90	–	1420	79.3	0.97	6.0	4.8	7.4	2.2	2.0	17
<b>CWT24150</b>	<b>1.5</b>	D90	–	1430	80.2	0.95	8.2	5.4	10.0	2.0	1.9	21
<b>CWT24170<sup>1)</sup></b>	<b>1.7</b>	D90	–	1415	77.4	0.97	9.5	5.0	11.5	2.3	2.2	22
<b>CWT24220<sup>1+2)</sup></b>	<b>2.2</b>	D90	–	1400	77.3	0.94	12.8	4.2	15.1	1.6	1.7	22
<b>1000 r/min = 6 poles</b>												
<b>CWT26037</b>	0.37	B56	–	930	66.4	0.96	2.4	3.8	3.8	1.8	1.7	12
<b>CWT26075</b>	0.75	D90	–	950	71.9	0.82	5.3	4.5	7.5	2.1	2.2	22
<b>CWT26110<sup>1+2)</sup></b>	1.1	D90	–	950	69.3	0.86	7.7	4.1	11.1	1.9	1.8	22

<b>THREE PHASE - 415V 50HZ</b>												
<b>3000 r/min = 2 poles</b>												
<b>CWT32075</b>	0.75	B56	–	2750	74.5	0.79	1.80	5.0	2.6	3.3	2.8	13
<b>1500 r/min = 4 poles</b>												
<b>CWT34037</b>	0.37	B56	–	1400	68.3	0.69	1.10	4.3	2.5	3.1	2.8	9
<b>CWT34075</b>	0.75	B56	–	1400	77.4	0.77	1.70	5.6	5.1	3.5	2.7	12

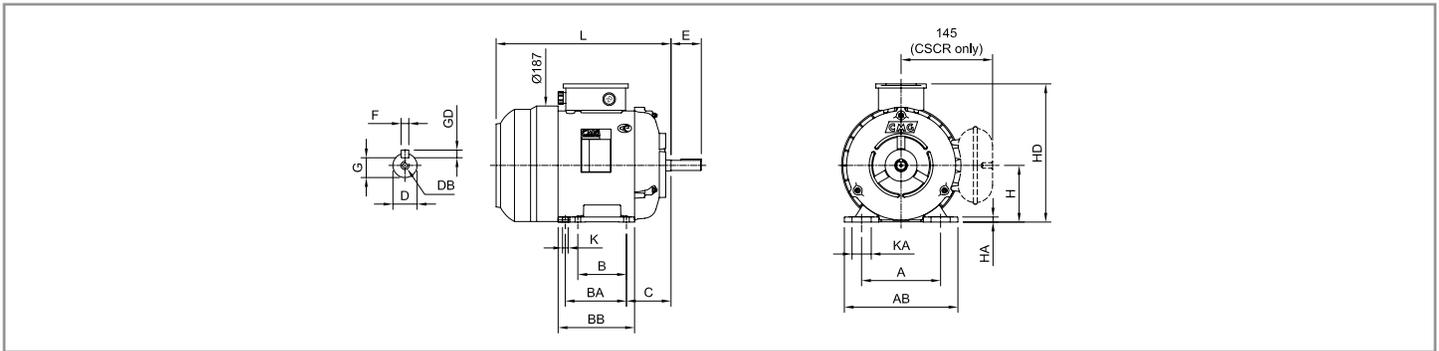
<sup>1)</sup> Class F temperature rise (100K).

<sup>2)</sup> Use DPFC cooling, all others use TEFC.

# DIMENSIONAL DRAWINGS

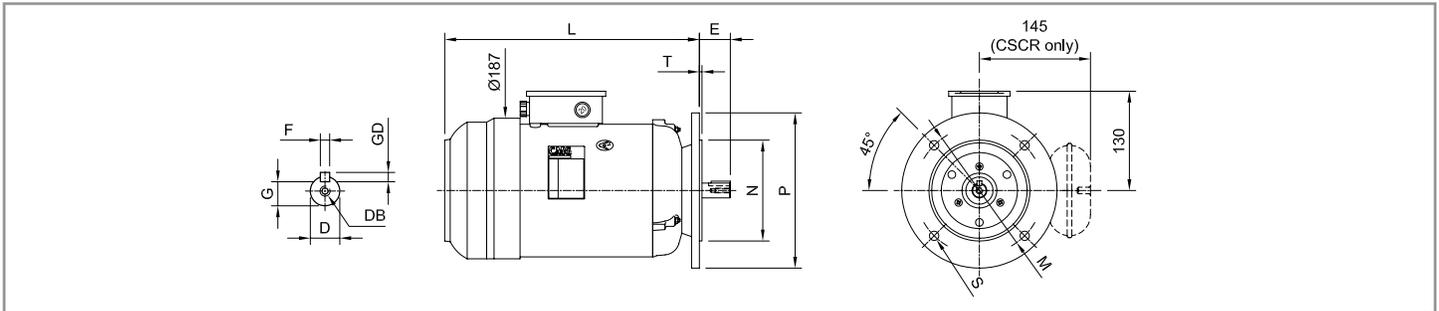
## STANDARD PRODUCTS

### FOOT MOUNT B3 (IM1001)



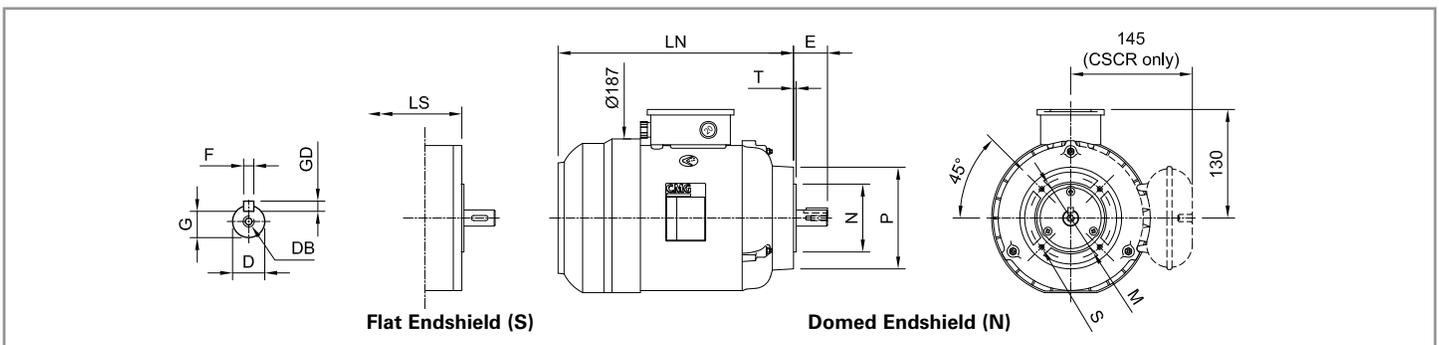
Motor Frame	A	AB	B	BA	BB	C	D	DB	E	F	GD	G	H	HA	HD	K	KA	L	
B56	-5/8"	123.8	182	76.2	-	101.6	69.8	15.875	-	47.6	4.76	4.76	13.10	88.9	8.5	219	8.7	30	274
D90	-24	140	180	100	125	155	56	24	M8	50	8	7	20	90	12	220	10	10	327

### LARGE FLANGE MOUNT B5 (IM3001)



Motor Frame	D	DB	E	F	GD	G	L	M	N	P	S	T	
D71	-14	14	M5	30	5	5	11.0	277	130	110	160	10	3.5
D80	-19	19	M6	40	6	6	15.5	277 <sup>1)</sup>	165	130	200	12	3.5
D90	-24	24	M8	50	8	7	20.0	327	165	130	200	12	3.5
B56	-5/8"	15.875	-	47.6	4.76	4.76	13.10	277	139.7	120.65	165.1	8.7	3.0
NEMA 56	-5/8"	15.875	-	47.6	4.76	4.76	13.10	277	149.2	114.30	165.1	10	3.0

### SMALL FLANGE (FACE) MOUNT B14 (IM3601)



Motor Frame	D	DB	E	F	GD	G	LN	LS	B14A					B14B					
									M	N	P	S	T	M	N	P	S	T	
D71	-14	14	M5	30	5	5	11.0	277	227	85	70	105	M6	2.5	115	95	140	M8	3.0
D80	-19	19	M6	40	6	6	15.5	277	253	100	80	120	M6	3.0					
D90	-24	24	M8	50	8	7	20.0	327	-	115	95	140	M8	3.0					

# TECHNICAL DATA

## OPERATING PARAMETERS

Special application CWTC and standard CWT series motors are designed to the following parameters:

- Continuous duty (S1)
- Three phase 415V STAR / 240V DELTA, 50Hz power supply  
Single phase 240V, 50Hz
- Ambient temperatures up to 40°C
- Installation at altitudes up to 1000 metres.

Performance data is based on these parameters and may need adjustment for different conditions.

## MATERIALS AND CONSTRUCTION

Materials used in the construction of CWTC and CWT series motors include:

- Aluminium endshield
- Rolled steel body
- Polypropylene copolymer fan and fan cowl
- 20% glass filled polypropylene terminal and capacitor cover
- Cast aluminium base (pressed steel versions are available).

## ROTOR BALANCING

Rotors have been balanced fitted with half key, to a commercial level. Special balancing can be performed on request.

## BEARINGS

Regal Rexnord Australia CWT standard series motors are provided with high quality shielded bearings (ZZ), prepacked with grease. Bearings with full contact neoprene seals (DDU or 2RS) are available for enclosure ratings such as IP55 and are fitted to CWTC special application motors.

Bearings are lubricated with lithium based rolling contact bearing grease and are suitable for operation within the ambient temperature range of -20°C to +40°C. Low or high temperature grease is available on request.

## ROTATION

Standard single phase motors are supplied to give clockwise rotation, as viewed from drive end. They can easily be reconnected to anti-clockwise rotation by interchanging two leads in the terminal box. Rotation of special application CWTC motors vary. See relevant page for details.

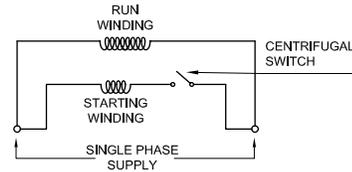
## IP RATING

IP ratings for the CWT standard range is IP44 (up to IP56 is available). For CWTC motors see relevant pages.

## WINDING CONFIGURATIONS

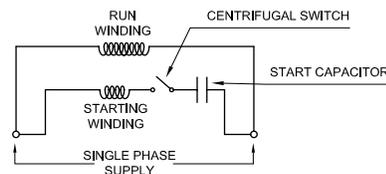
### Split phase

Split phase motors are single phase. The starting winding has less turns and smaller wire size than the running winding. This gives a relatively low locked rotor torque and high locked rotor current. The starting winding is cut out by a centrifugal switch at the appropriate speed.



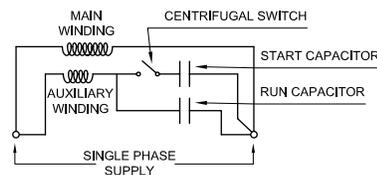
### Capacitor start induction run (CSIR)

CSIR motors are similar to split phase but have a capacitor connected in series with the starting winding. This gives a higher locked rotor torque for less current than a split phase motor.



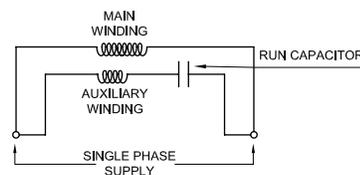
### Capacitor start capacitor run (CSCR)

CSCR motors have two capacitors connected in series with the auxiliary winding. One capacitor of low value (run capacitor) is permanently connected. The second capacitor of high value (start capacitor) is connected in parallel with the run capacitor during the start up period. This motor is more efficient than CSIR.



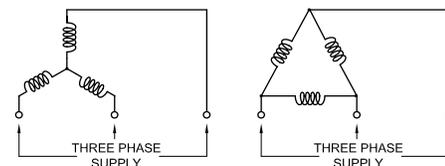
### Permanent split capacitor (PSC)

For PSC motors, capacitor is permanently connected in series with the auxiliary winding. This gives a low locked rotor torque and current and is used mainly for driving fans and some pumps.



## Three phase

Three phase motors have three balanced windings displaced by 120 electrical degrees producing a rotating field without switch or capacitor components. The windings produce relatively high locked rotor torques.



▲ Star Connection

▲ Delta Connection



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MCCP22014E • Form# SB0256E

