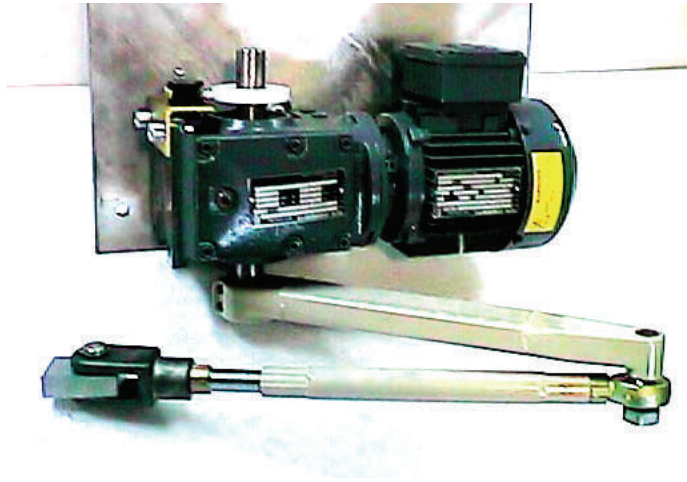




MAGDRIVE

Info



MAGDRIVE SW03-MAG SWING GATE DRIVE

Swingdr5.Pub

issue one

DESCRIPTION

The SW03-MAG gate drive is designed specifically for commercial installations where a high duty cycle, speed and reliability are important.

The drive is suitable for Wrought Iron gates up to 4 metres wide and 2 metres tall, properly supported on quality hinges. Gate weight should not exceed 300Kg. Closed in or partially clad gates may also be driven but the size must be proportionately reduced on account of wind loading.

A three phase motor and industrially rated worm helical reducer produce swing gate movement by rotating an articulated lever arm connected to the gate leaf. Geometry of the articulated arm causes a sinusoidal gate movement starting and finishing softly.

To further enhance disciplined gate movement the motor is controlled by a PLC and inverter frequency control which produce optimum travel speed for each gate configuration.

Suitable for swing gate movements between 70 to 120 degree, position reporting is managed by a customised cam fitted to the motor output shaft which operates a microswitch connected to the PLC.

The drive is self locking, that is on loss of mains power the gate leaf remains in the last controlled

position. Manual operation is possible by using a crank arm connected temporarily to the motor shaft.

Power supply to the controller is single phase 230V 50Hz. The inverter frequency control provides three phase 230V power of varying frequency to the motor.

The control may operate a single or dual motors to drive one or two gate leaves. In the case of dual leaves one is delayed to recognise overlap ie. with a Magnetic lock.

The control accepts hard wired inputs from external clean contacts (voltage free) including safety devices to inhibit gate movement whilst an obstacle is present. An on board radio receiver enables remote operation from a hand held device.

SPECIFICATION

Model	S47 R32 DT 63K4	S57 R32 DT 71D4
Power	0.12kw	0.37
RPM	2.1	2.1
Torque	300NM	917NM
Protection	IP55	IP55
Duty Cycle	100%	100%

Supply to control single phase 230v 50Hz. Supply to motor. Three phase 230v 50Hz.