Ellickson Doors
SUPPLY • INSTALL • SERVICE
Unit 16a, Six Cross Roads Business Park, Waterford, Ireland
Tel: +353-51-370962 • Mobiles: +353-87-2306843 • +353-87-2859866
www.ellicksondoors.com • (E) j.hewetson@ellicksondoors.com • j.ogorman@ellicksondoors.com

Ellickson

Industrial / Commercial Roller Shutter Doors

Custom Made Quality Solutions.

Ellickson Doors
SUPPLY • INSTALL • SERVICE

Managing Director: John O' Gorman
Company Registration Number (Ire): 346380 • **Vat Registration Number (Ire):** IE6366380J

Ellickson Doors Ltd

Roller Shutter Door

Product Development Criteria is based on the following design parameters:

- Continuous product analysis & research programme
- Specification evaluation for customer requirements
- Building enhancement capabilities & architectural compatibility
- Focus on safety requirements governing vertically opening industrial doors

Component construction

Roller shutter door curtain is constructed of 75mm galvanised steel, interlocking laths 20SWG (18SWG also available). Profiled steel end locks are fitted to the end of each lath, thus containing lateral movement of curtain.
Door curtain assembly is secured with a pair of side guides face fixed to door opening.
Bottom rail cold rolled galvanised steel, T section, 75mm x 75mm.
Door curtain assembly will be secured to barrel assembly, consisting of hollow section tube designed to resist deflection. Barrel to rotate on BMS axle assembly and retained within end plate fixtures. The top end door assembly will be enclosed with steel canopy (optional), 16 SWG (1.6mm) and secured to end plates at at door head.

Shutter door operation

- Doors can operate either in manual or electric mode
- Door operators are individually calibrated depending on door size

Door Finish

- All components other than shutter curtain finished in one coat grey primer. Curtain and canopy to be galvanised finished
- Standard range of Plastisol colours available
- *Please note: Door assemblies can be powder coated finish to standard RAL colour of choice*

All equipment is CE compliant and will conform to all EU and statutory health and safety regulations

Door Weight

- 40 Kgs per M^2

Wind resistance

- For wind exposed locations, a door curtain wind lock assembly can be provided

Power Supply

- 3 Phase, 380 volt neutral earth supply

Safety Features

- Door descent arrest mechanism (where applicable)
- Accident prevention safety edge (where applicable)

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03 – EC Declaration

DECLARATION OF CONFORMANCE.

Ellickson Doors Ltd Declares under its own responsibility that the Industrial Roller Door is in compliance with European Regulation 305/2011/EU.

Make: Ellickson Doors Ltd.
6 Cross Rds Business Pk.
Waterford.
Model: EDL. Industrial Roller Door.
Year: 2013.

Is compliant with the essential requirements of the following directives:

89 / 106 / EC Construction Products Directive.

98 / 37 / EC Machinery Directive.

89 / 336 / EC Electromagnetic Compatibility Directive.

73 / 23 / EC Low Voltage Directive.

And have been calculated and designed pursuant to the following European EN14351-1:2006 Harmonised standards:

EN 12424:2000 Resistance to wind loading Class 3.

EN 12425:2000 Resistance to water penetration Class 2.

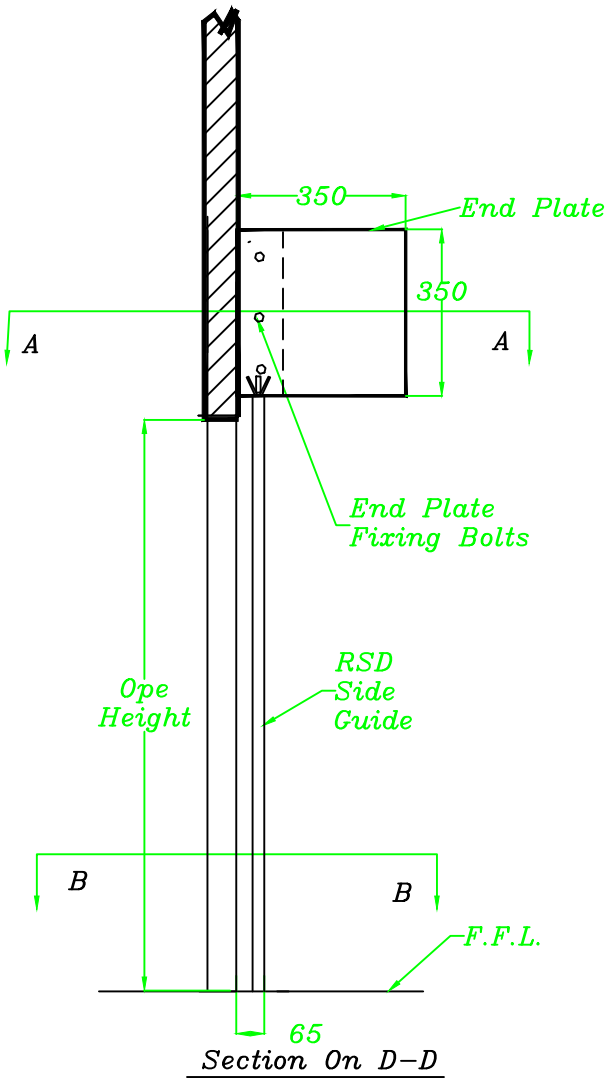
EN 12426:2000 Air permeability Class 2.

EN 12453:2000 Safety in use of power operated doors.

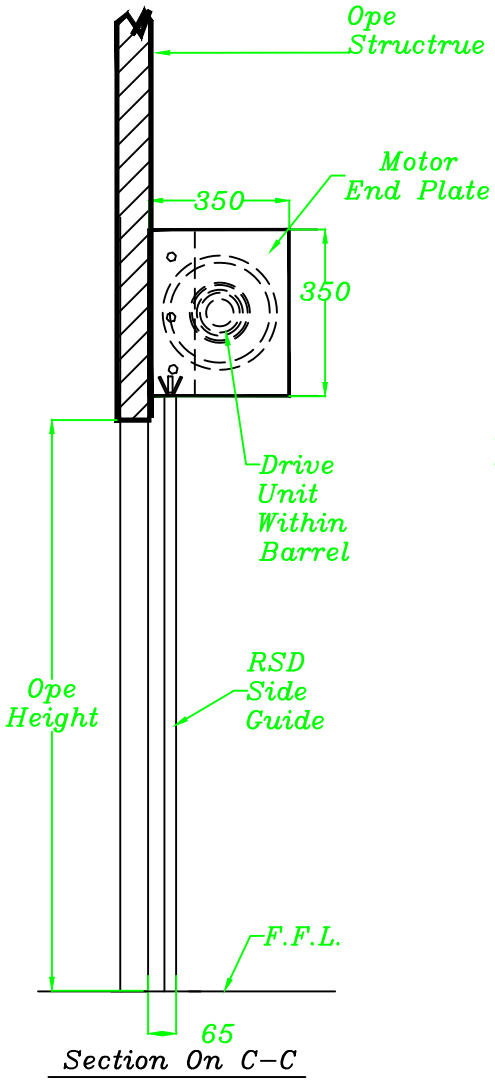
EN 12604:2000 Mechanical aspects.

EN 12605:2000 Mechanical aspects: Testing process.

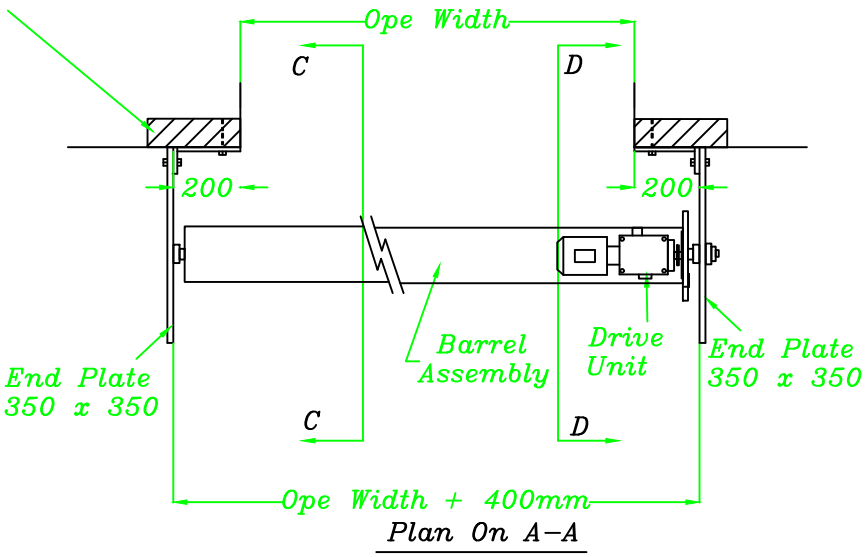
EN 1954-1:1996 Safety of machines: Safety parts and electrical controls.



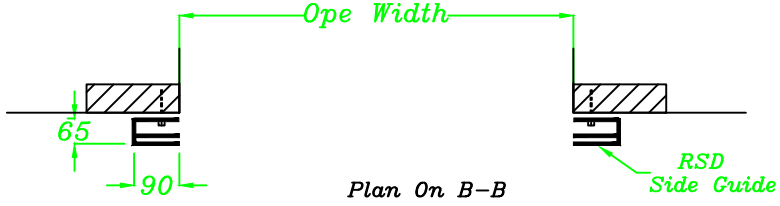
Section On D–D



Section On C–C



Plan On A–A



Plan On B–B

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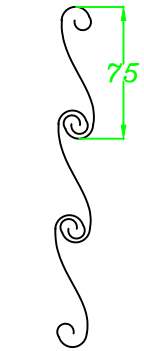
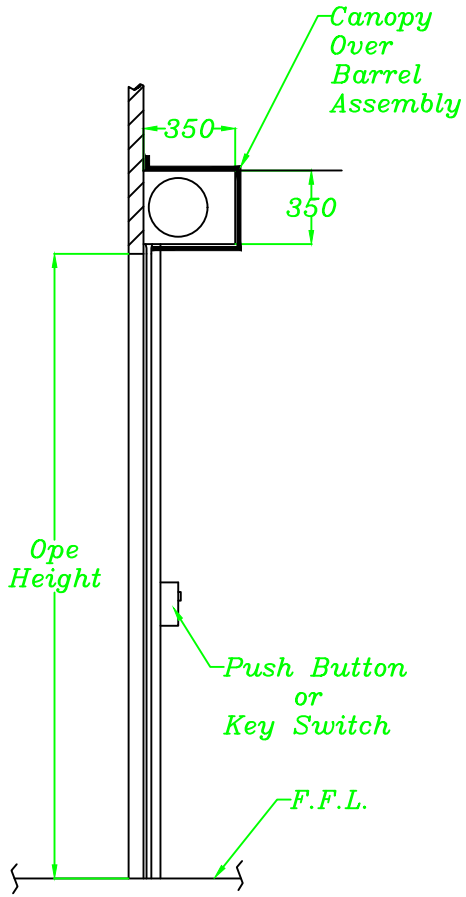
TEL: 051–370962 MOB: 087 2859866, 087 2306843

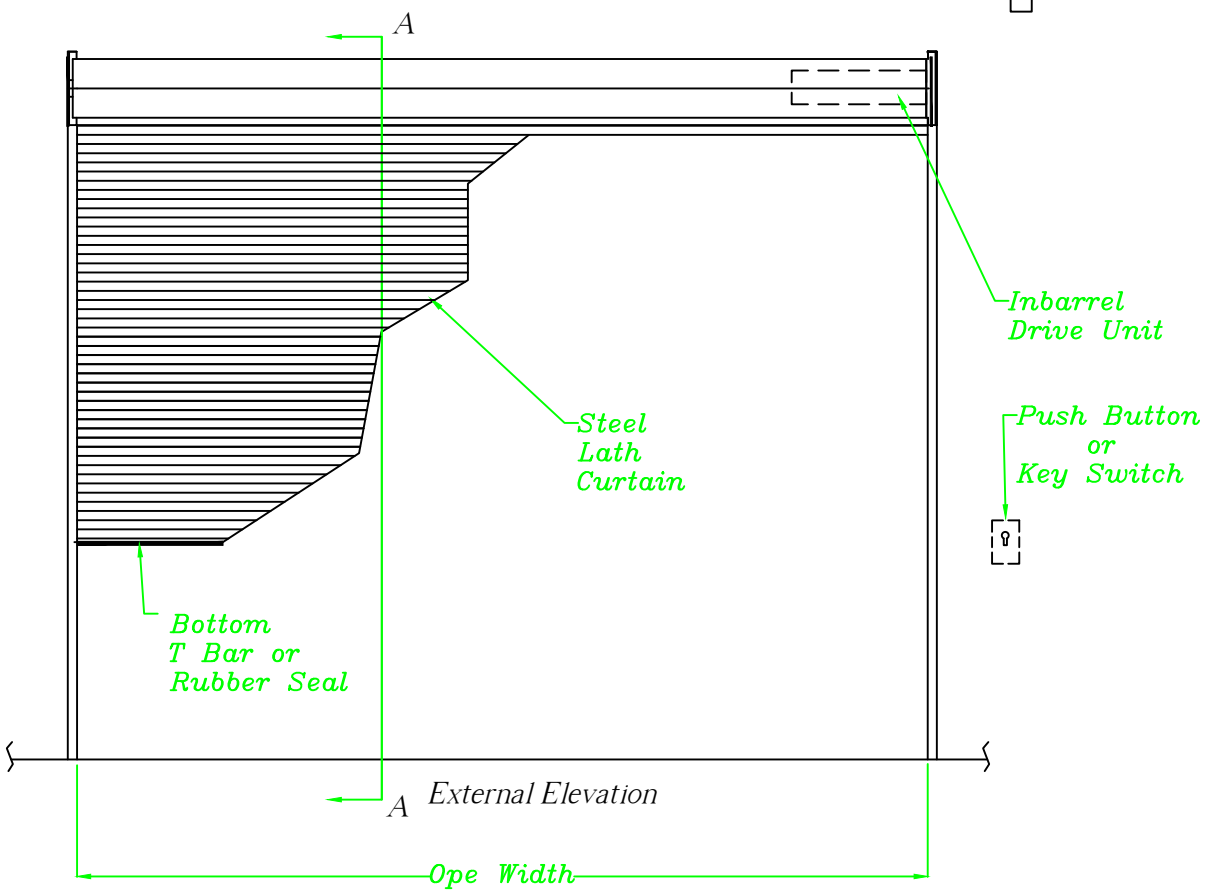
UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MILLIMETRES DO NOT SCALE DRAWING		DRAWING TITLE: Ellickson Roller Shutter Door	
DRAWN BY: A O Brien	DATE: 28–5–18	STORAGE REFERENCE	JOB REFERENCE
CHECKED BY		DRAWING NO.: RSD–BD–01	



Lath Detail



Section A/A



External Elevation

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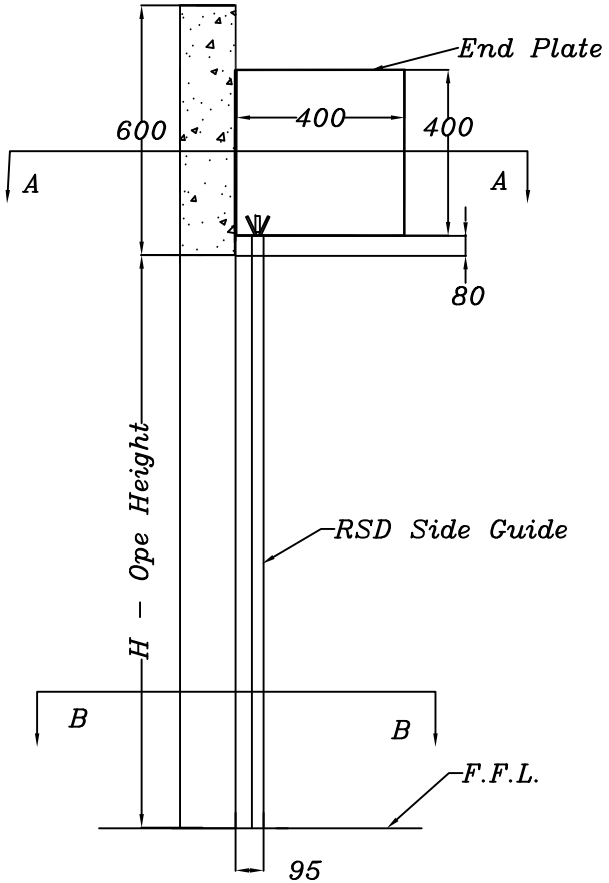
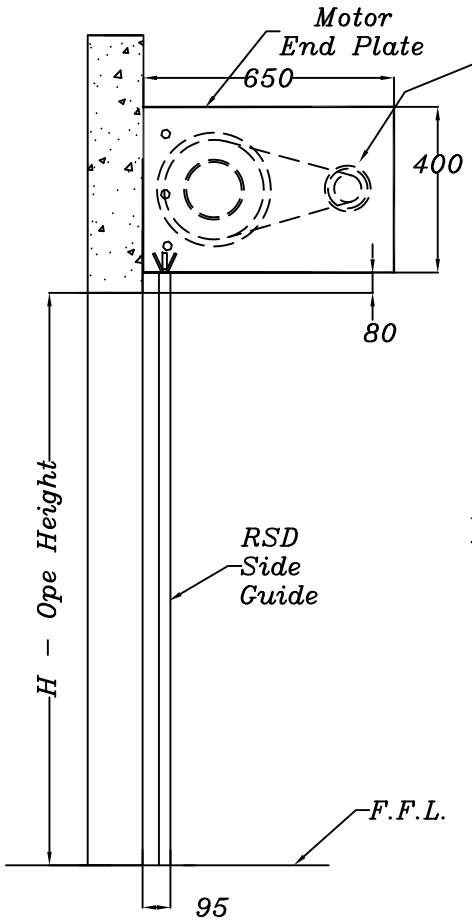
DRAWN BY: A O Brien	DATE: 28-5-18	STORAGE REFERENCE	JOB REFERENCE
CHECKED BY		DRAWING NO.: RSD-BD-02	

Canopy Removed for Clarity



Section On C–C



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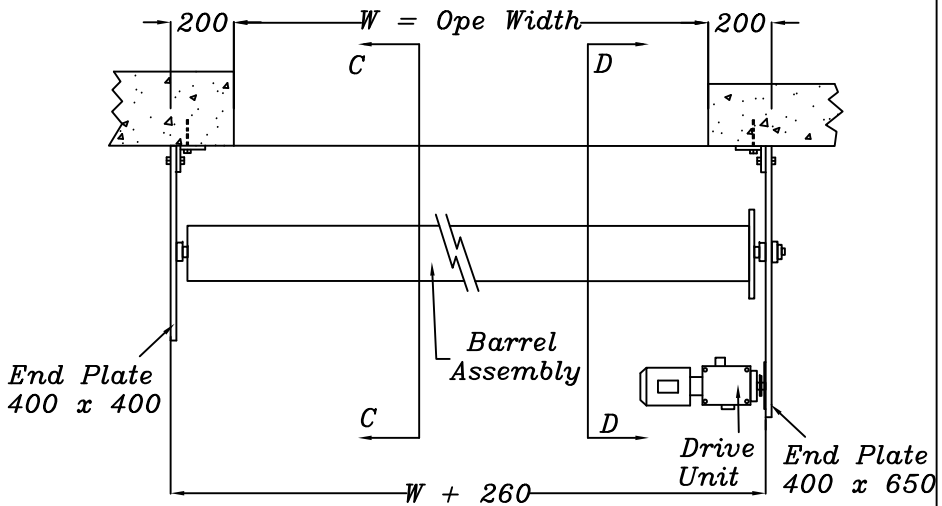
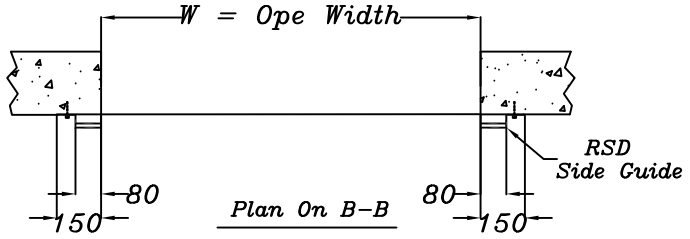
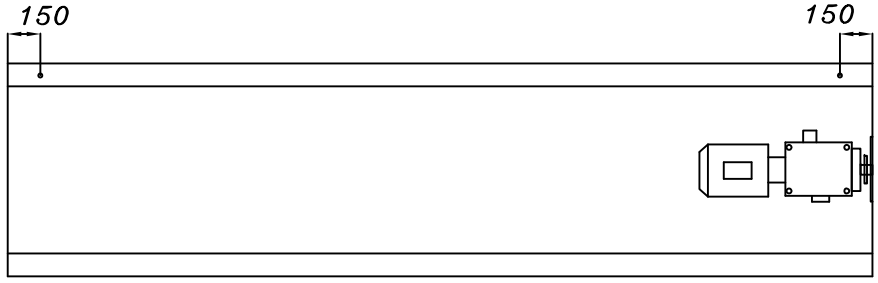


Plan On A–A



Plan On B–B



Canopy & Support Detail

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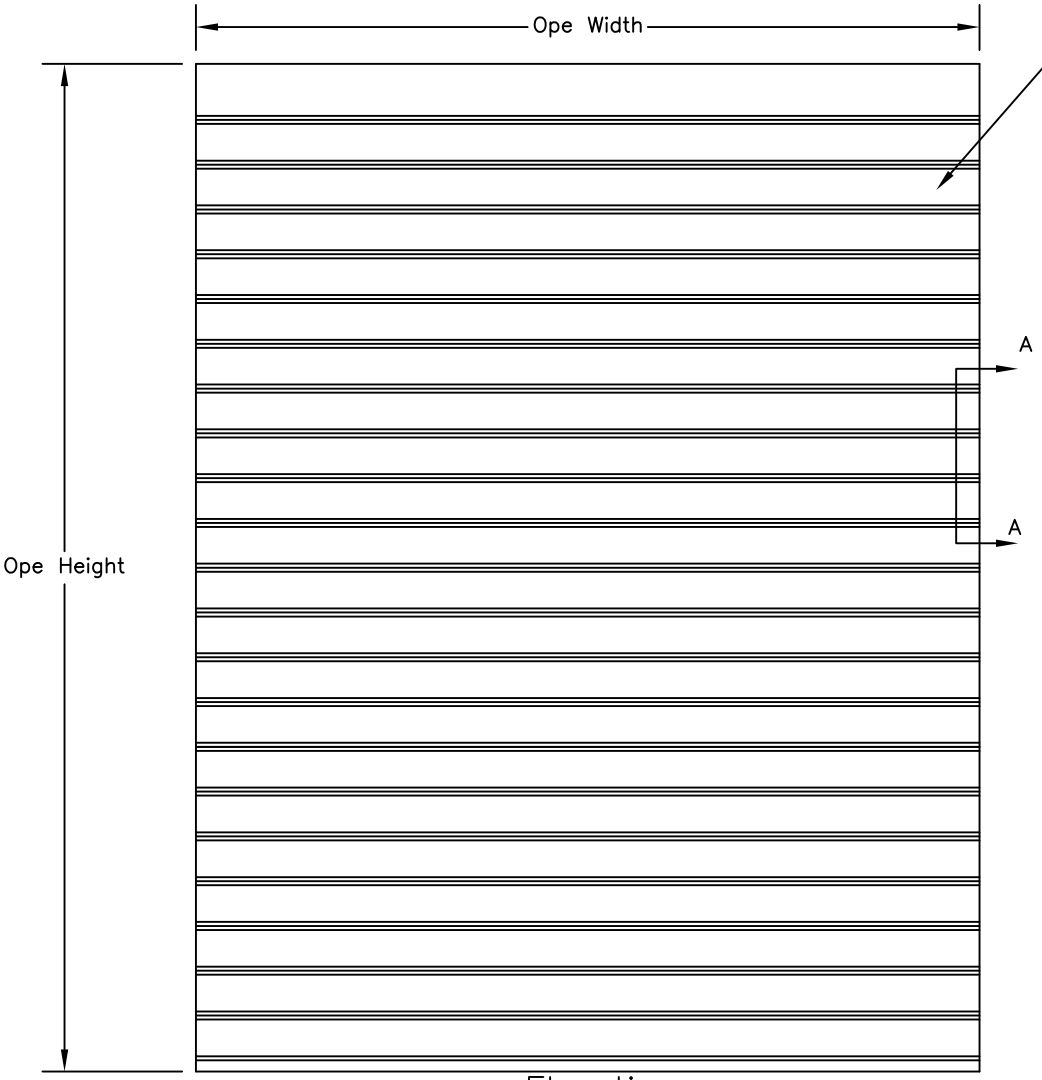
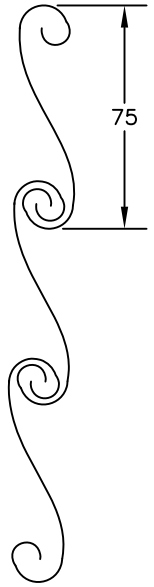
TEL: 051–338451 MOB: 087 2859866, 087 2306843

UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MILLIMETRES DO NOT SCALE DRAWING		DRAWING TITLE: Ellickson R.S.D. Door	
DRAWN BY	DATE: 18–2–02	STORAGE REFERENCE:	JOB REFERENCE
CHECKED BY		DRAWING NO.: RSD–AL–02	



Elevation



Section A/A

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TEL: 051–338451 MOB: 087 2859866, 087 2306843

UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MILLIMETRES DO NOT SCALE DRAWING		DRAWING TITLE *Ellickson R.S.D. Showing Lath Arrangement*	
DRAWN BY *A O Brien*	DATE *25–5–11*	STORAGE REFERENCE:	JOB REFERENCE
CHECKED BY		DRAWING NO. *RSD–AL–01*	

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Roller Shutter Door

Curtain:

Constructed from galvanised cold rolled interlocking lath profiles, of 75mm deep.
Each alternative lath is fitted with a steel endlock to prevent lateral movement.

Bottom Rail:

The base of the curtain is fitted with a rolled steel re-inforcing rail of adequate size forming an inverted T.

Side Guides:

Formed from cold rolled pre-galvanised channel sections secured to the opening structure by continuous mild steel fixing angles. Dimensions: 75mm pre-galvanised steel roll form U section. with 50 x 75mm galvanised roll form angle attached.

Roller Assembly:

Constructed from mild steel tube of suitable size and support to meet current regulations. As standard mounted on bright steel shaft running in ball races and operated through a motor with geared or chain transmission to meet specification.
Dimensions: 101 x 3.2mm

End Plates:

The Roller Assembly is supported by steel end plates with mounting angles for fixing to the support structure. On one end plate gears or chain transmission provide drive to the barrel.
Dimensions: Drive Side 400 x 650 x 4mm, Non Drive Side 400 x 400 x 4mm

Casings:

Constructed from 22 gauge galvanised steel to enclose coils.
Casing supports are required for larger openings - refer to typical configuration.

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Electrical Operation

Ellard type JM500 drive unit.
Consists of a totally enclosed motor to suit size of shutter.
Standard voltage is 380v. 3-phase 50hz.
Control Voltage is 24V. ac.
The motor is equipped with limit switches and electromagnetic brake.
A manual hand-chain override facility is provided.
A safety brake protecting against drive linkage failure is fitted as standard.

Finish

Standard galvanised finish or Poly-Gard powder paint finish is available in a variety of colours.
P.V.C. (plastaisol) finish is also available.

Operating Roller Shutter

Before operating roller shutter ensure that there are no obstructions within the opening the roller shutter path of travel which could possibly cause injury to persons or damage property or damage the roller shutter. Operation electrically by means of geared motor complete with rotary limits and emergency hand mechanism.

Operating Press Button / Key Switches

Ensure that the operator remain at the controls during the full cycle operations of the roller shutters All press button I key switch controls are to be of a dead man control type.

For Your Safety While Operating Roller Shutter

Do not allow persons or clothing to come in contact with the roller shutter during its travel operations. In an emergency the shutter can be stopped by releasing you finger off the button or releasing your grip on the key on the switch.

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Maintenance Instructions Manual

Maintenance

Maintenance must be carried out by a competent / qualified person. Do not try to repair or alter / modify any part of the roller shutter as this would be extremely dangerous and would affect the integrity of the product and have detrimental effect affecting the shutter warranty if applicable.

Servicing

It is recommended that all shutters be Inspected and serviced twice yearly a comprehensive maintenance program is essential to ensure that your product longevity and costly repairs are to be avoided.

Access To Electric Motor

There is an important requirement that a service hatch be provided in order to gain access to the motor in order to provide/carry out essential regular maintenance and to the motor in the event of power failure.

In The Event Of Power Failure

The motor has an emergency facility which comprises of an endless haul chain to allow the roller shutter to be closed or opened.

Single Phase Motors

Lifting Guide

4" Barrel	Up to 170 kg Up to 530 kg Up to 650 kg	JM150 JM500 JM500 (BP8)
5" Barrel	Up to 140 kg Up to 430 kg Up to 520 kg Up to 750 kg	JM150 JM 500 JM 500 (BP8) JM 750
6" Barrel	Up to 350 kg Up to 400 kg Up to 630 kg	JM 500 JM 500 (BP8) JM 750
CALCULATION	Width (m) x Height (m) x Lath (kg) = Door Weight Kg 22 Gauge @ 11.5kg/m^2 20 Gauge @ 13.5kg/m^2 18 Gauge @ 18.0kg/m^2	

Technical Specifications

Output with Standard Bracket Pack

	Volts	Watts	Amps	Gearbox Output Speed	Unit Torque Nm	Standard Sprocket on Unit	Max Lifting Height(m)	Lifting Capacity kgs	RPM	Torque Nm
JM 150	220/240	90	1.8	34	20	11T 3/8 Pitch	4	170	6.2	112
JM500	220/240	370	3.5	34	62	9T 5/8 Pitch	5.5	500	6.2	343
JM500 (BP8)	220/240	370	3.5	34	62	9T 5/8 Pitch	4.5	600	5.1	413
JM750	220/240	370	3.5	22	95	10T 5/8 Pitch	7	750	3.4	607

Three Phase Motors

Lifting Guide

4" Barrel	Up to 260 kg	JM200
	Up to 530 kg	JM500
	Up to 650 kg	JM500 (BP8)
5" Barrel	Up to 200 kg	JM200
	Up to 430 kg	JM500
	Up to 520 kg	JM500 (BP8)
	Up to 750 kg	JM750
	Up to 1000 kg	JM1000
6" Barrel	Up to 350 kg	JM500
	Up to 440 kg	JM500 (BP8)
	Up to 750 kg	JM750
	Up to 850 kg	JM1000
	Up to 1690 kg	JM1500
8" Barrel	Up to 1200 kg	JM1500

Technical Specifications

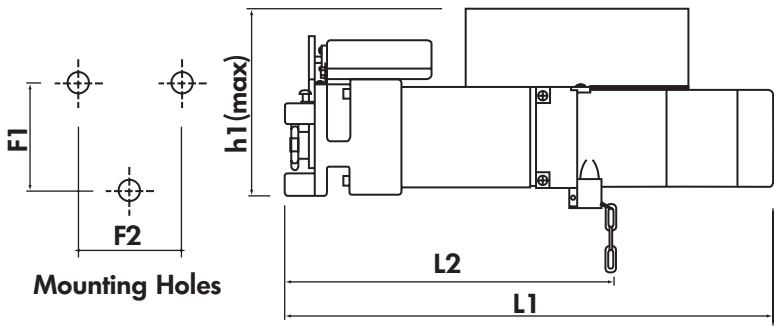
Output with Standard Bracket Pack

	Volts	Watts	Amps	Gearbox Output Speed	Unit Torque Nm	Standard Sprocket on Unit	Max Lifting Height(m)	Lifting Capacity kgs	RPM	Torque Nm
JM 200	380/415	120	0.7	34	30	11T 3/8 Pitch	4	200	6.2	165
JM500	380/415	250	0.9	34	62	9T 5/8 Pitch	5.5	500	6.2	343
JM500 (BP8)	380/415	250	0.9	34	62	9T 5/8 Pitch	4.5	600	5.1	413
JM750	380/415	300	1.2	22	95	10T 5/8 Pitch	7	750	3.4	607
JM1000	380/415	370	1.5	22	128	9T 3/4 Pitch	7	1000	3.5	810
JM1500	380/415	750	2.8	15	368	11T 1" Pitch	13	1500	3.4	1610

Dimensions

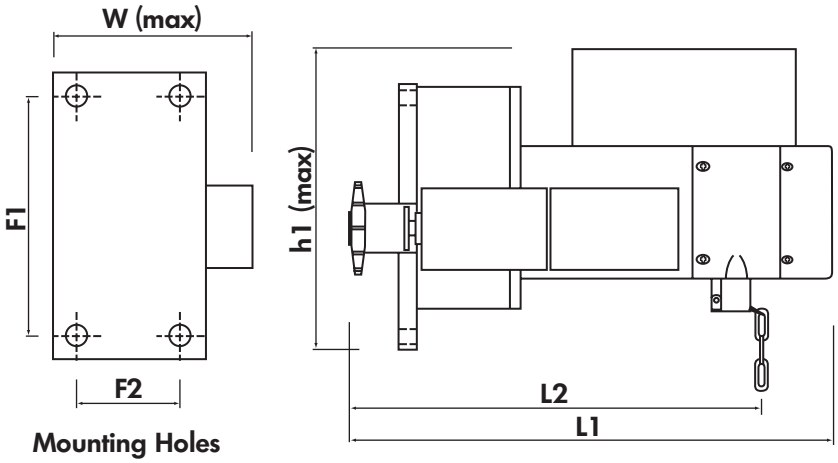
JM150/200/500/750/1000 Fire Shutter Operators

	Operator Details			Mounting Details		
General Dimensions	L1	L2	H1(Max)	F1	F2	Bolt Size
JM150 & JM 200	427	300	210	110	110	M10
JM500	547	348	185	76	88	M10
JM500 Manual	308	200	185	76	88	M10
JM750 & JM1000	580	363	260	185	126	M10

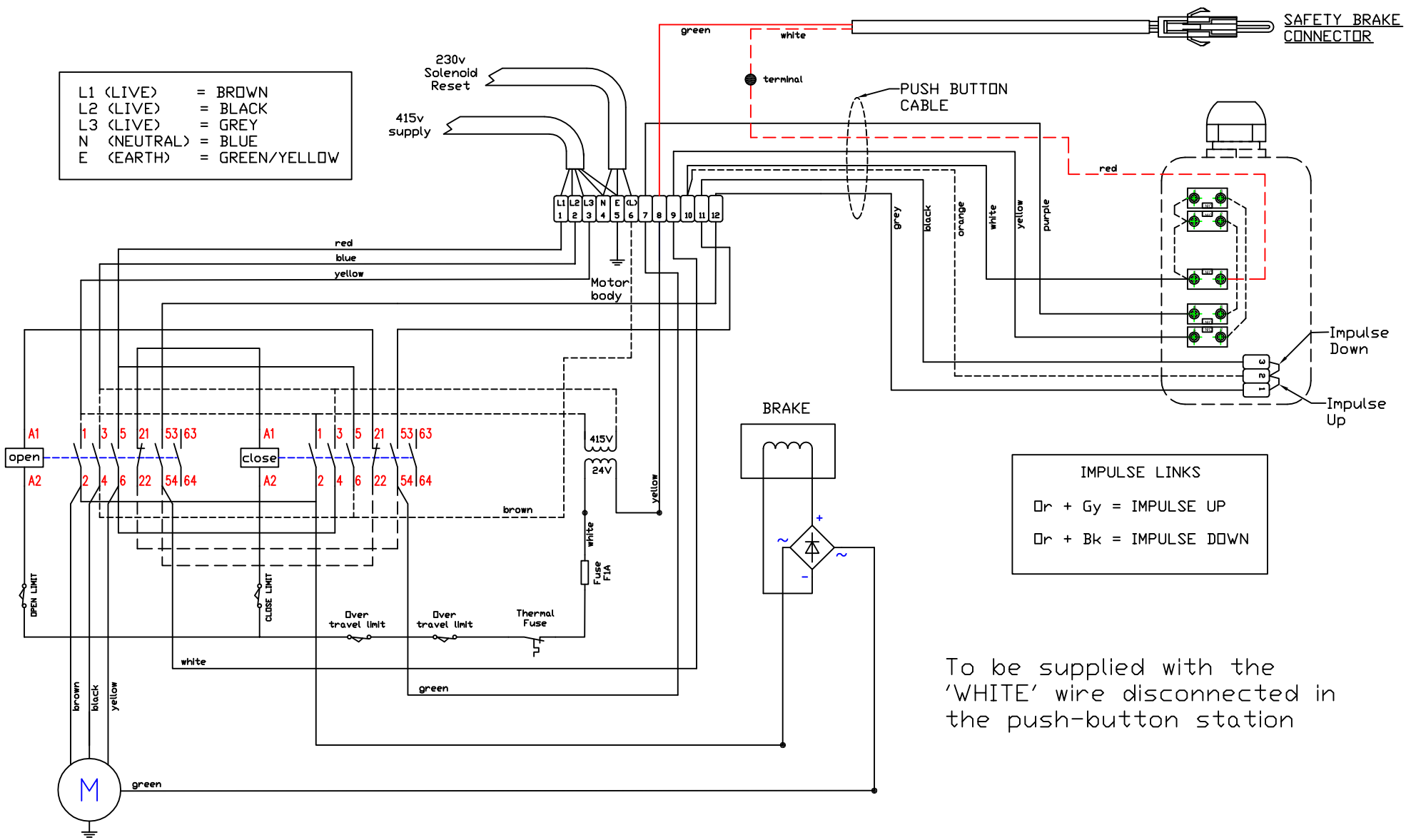


JM1500 Fire Shutter Operators

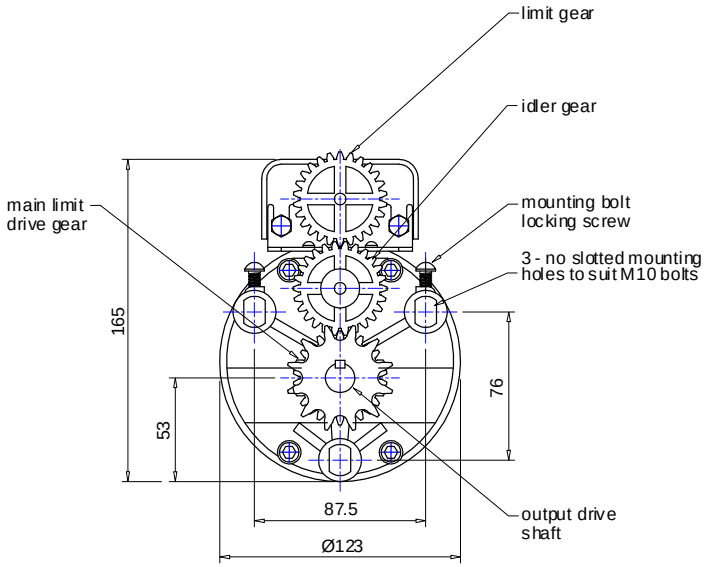
	Operator Details			Mounting Details			
General Dimensions	L1	L2	H1(Max)	F1	F2	W (max)	Bolt Size
JM1500	510	430	284	253	135	212	M14



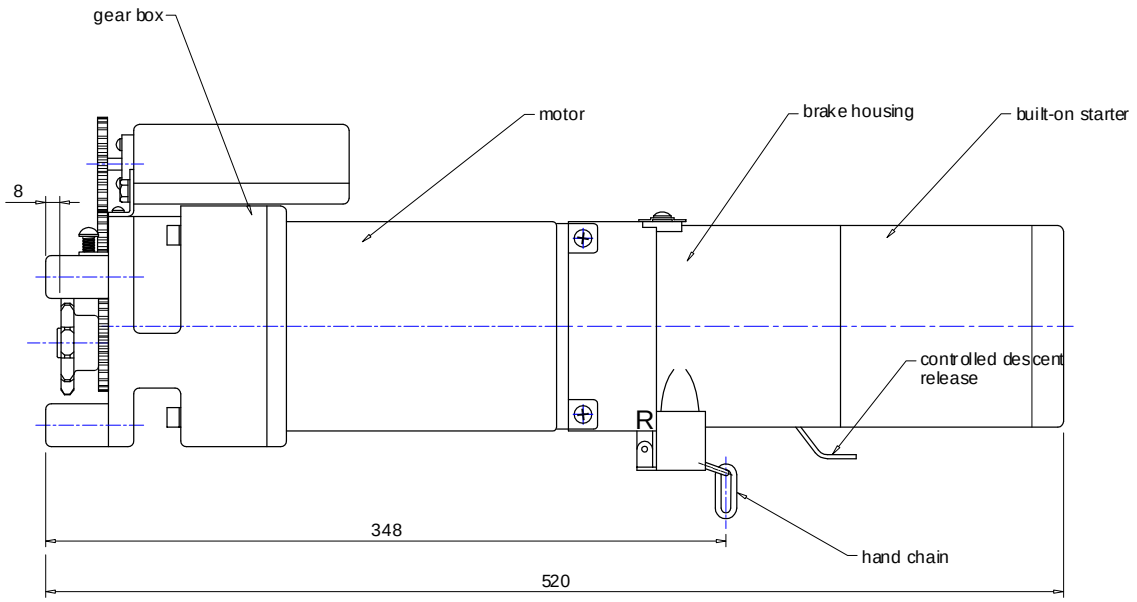
Rev		Note:

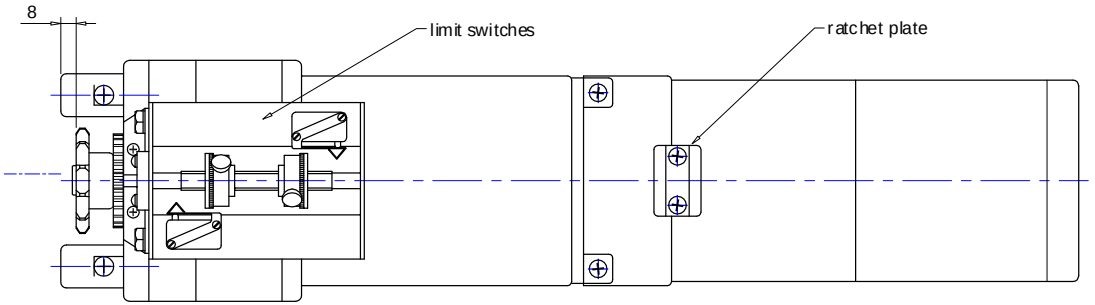


		All dimentions in millimetres				Title	Scale	NTS
ellard	ellard Ltd Roundthorn Ind Est Dallimore Rd Wythenshawe Manchester M23 9NX Tel: 0161 945 4561 Fax: 0161 945 4566	Drawn by	Date	Rev	Aprvd	CIRCUIT DIAGRAM FOR JM500 (3 PHASE) OPERATOR (revised wiring)	File Name	JM500
		DE	30/10/04				Darwing No	JM500/001



ATTENTION
Hand chain is disabled when operator is electrically operated for safety purposes





PLAN VIEW ON DRIVE UNIT

INSTRUCTIONS

Once the door operator has been mounted, the emergency hand chain and the controlled descent release mechanism can be adjusted to suit the angle of installation.
Loosen the four brake housing securing screws and rotate the housing until the emergency hand chain falls vertically. Re-tighten the screws to secure the brake housing.

EMERGENCY HAND CHAIN OPERATION

The emergency hand chain should only be used for opening the shutter. The door can be closed by pulling down the brake release lever and allowing the curtain to close under controlled descent. The rate of descent is controlled by an integral centrifugal speed governor.
The hand chain is prevented from closing the shutter by a reversible ratchet mounted on the top of the brake housing unit.
The ratchet must be set to suit site conditions i.e. left hand or right hand mounting position. The direction of the ratchet operation is changed by removing the two ratchet retaining screws and revolving ratchet mechanism through 180 degrees.

SETTING LIMIT SWITCHES

Connect starter in accordance with starter instructions.
Set shutter in mid-travel position. Slacken knurled limit thumb screws and wind them both towards the centre of the screwed limit travel rod. Re-tighten both thumb screws which will allow maximum shutters travel in both directions. Run the door just short of the fully opening position and adjust the limit switch cam until it operates the open limit switch. Test run the shutter by closing the door by approximately one metre and checking the operation of the open limit switch. Adjust the cam to obtain final closing position.
Operate the shutter in the close position and repeat the setting procedure.

Operator Reference	Number of phases	Voltage (V)	Power (watts)	Output Torque (Nm)	Full load Current (amps)	Start up Current (amps)
JM500	1	230	370	34	3.5	11.9
JM500	3	415	250	34	0.7	2.38

Rev

ellard
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Roundthorn Industrial Estate,
Wythenshawe,
Manchester,
M23 9NX.

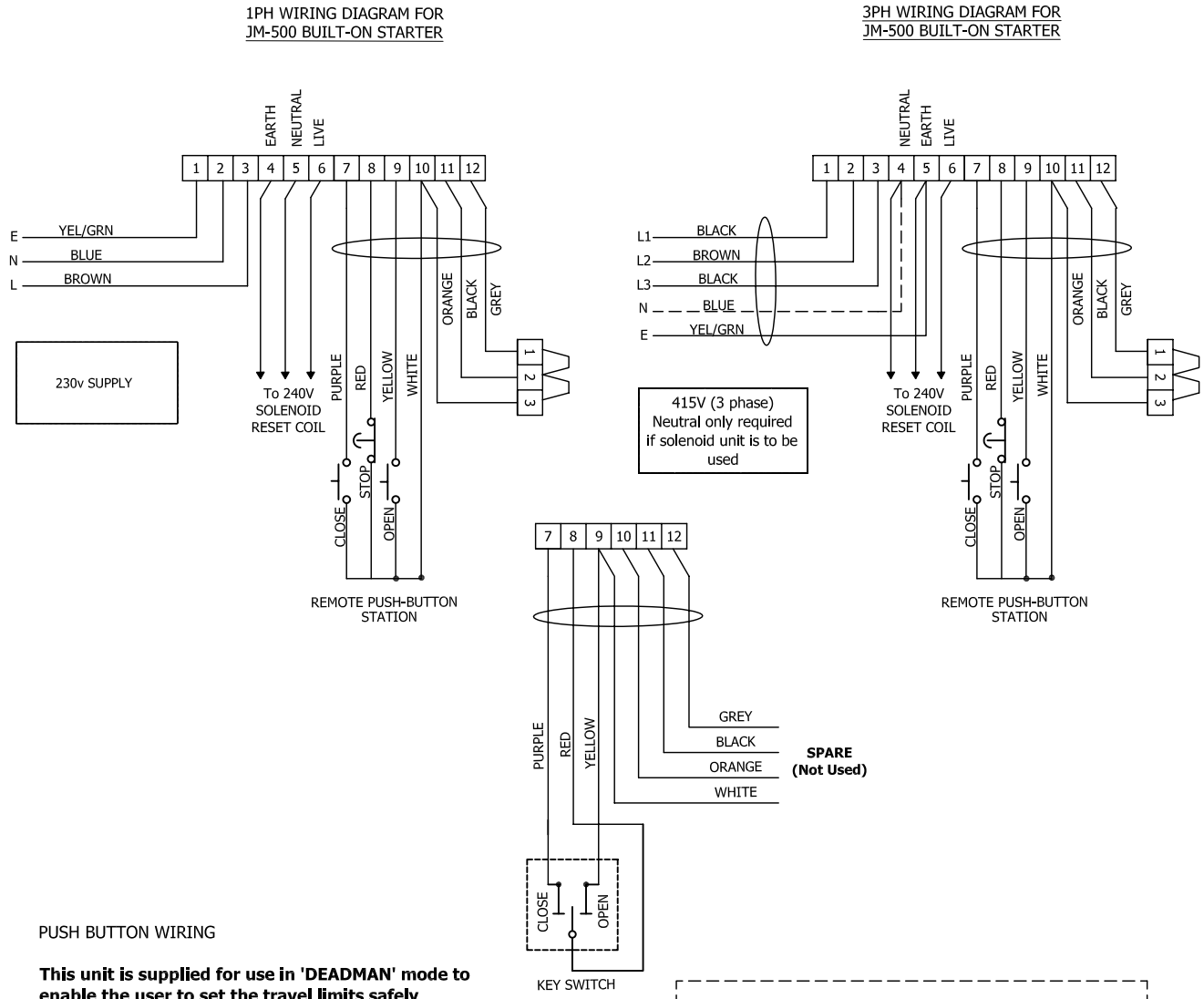
Tel 0161 945 4561
Fax 0161 945 4566
E-mail sales@ellard.co.uk

Title
General arrangement of JM500 single and three phase drives with built-on starters.

Date	16/8/2005
Dwn by	Ron Swift
Ch'k'd by	C Foster
Dwg #	FRSD/JM500/GA/10066/001

Electrical Connection and Configuration
(Right hand mount shown)

Access to the terminal wiring is given by removal of three retaining screws securing the end cap to the starter housing. This should only be necessary to connect the 240 volt RESET facility for the release solenoid. All electrical work must be carried out by a competant person in accordance with the IEE wiring regulations.



PUSH BUTTON WIRING

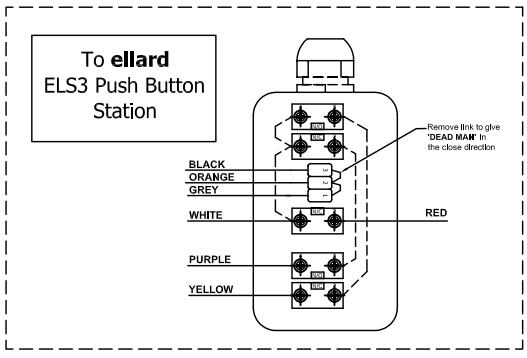
This unit is supplied for use in 'DEADMAN' mode to enable the user to set the travel limits safely

After travel limit setting, the operator can be configured for the users choice of control

1. For 'DEADMAN' in both directions
Leave as existing configuration (or remove the white wire if connected)

2. For continuous run in both directions
Connect the 'WHITE' wire in push button station as shown

3. For 'DEADMAN' on close
Connect the 'WHITE' wire in push button station as shown and remove the link from BLACK-ORANGE connection



ellard Ltd
Roundthorn Industrial Estate, Dallimore Road,
Wythenshawe, Manchester M23 9NX

Tubular Motor Catalogue
EURODRIVE Motors & Accessories

Automation for awnings and roller shutters

Ellickson Doors
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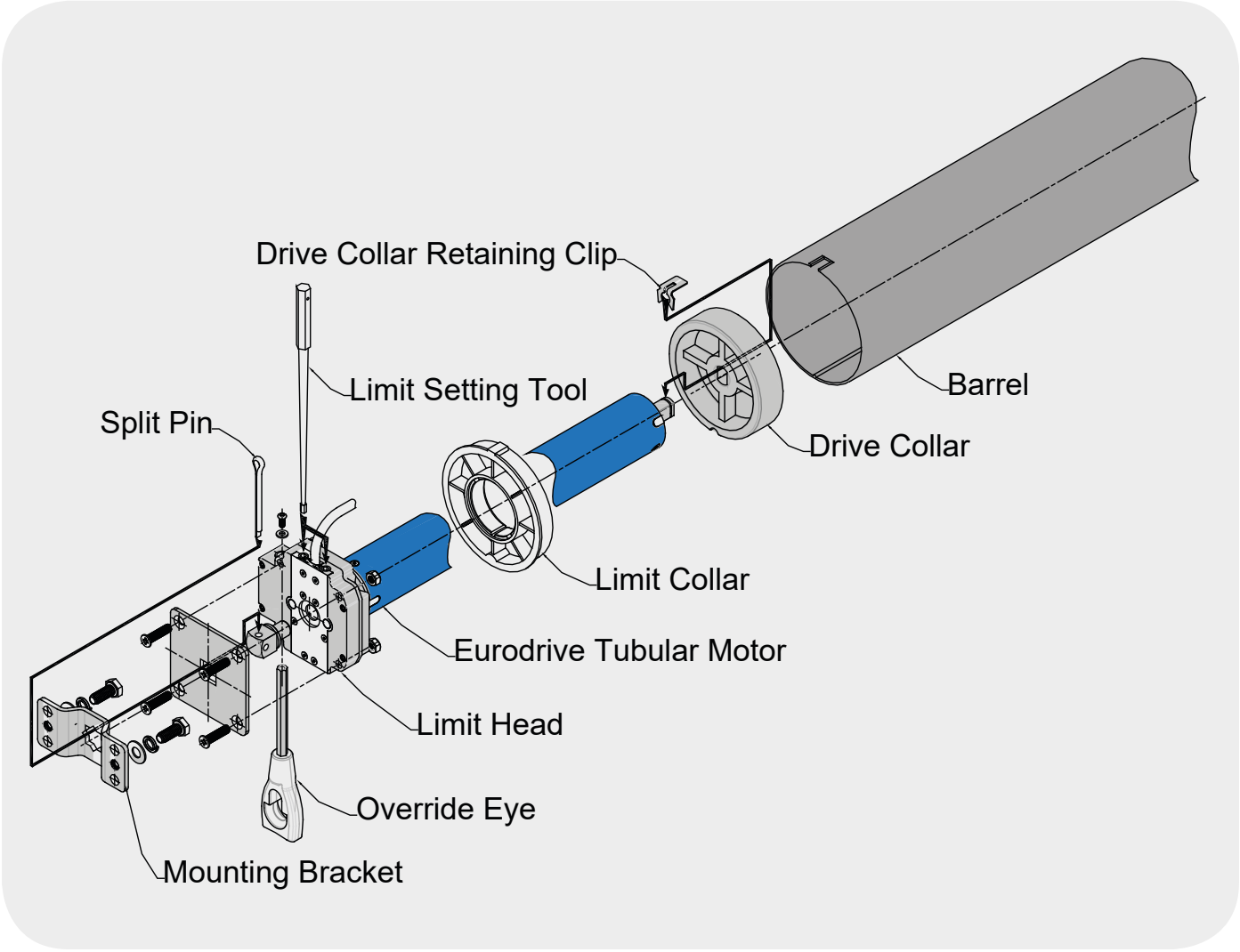
About Tube Motors

Design & Assembly

Tubular motors were originally designed to automate small blinds and shutters. The largest markets being France, Italy and Germany where shutters and blinds are incorporated into the design of domestic and commercial buildings. In Great Britain tubular motors have gained in popularity with the requirement for increased security for retail and office premises.

The tubular motor provides an unobtrusive means of automating shopfront shutters and grilles.



Tubular motors are by their design limited in their duty i.e. the number of repeated operations that can be performed. Typical number of operations would be 4-6 dependant on the application, therefore the tubular motors are ideal for situations where the shutter must be opened in the morning and closed in the evening.

In an effort to assist in the selection for your application we have produced several reference charts. Initially it is necessary to establish the weight of the curtain, and the tube which is to be used. Given this information the tubular motor can be selected.

Lifting Capacity Table

Motor Selection & Tube Deflection Charts

Lifting Capacity	40mm	60mm	70mm	90mm	100mm	127mm	133mm	139.7mm
EURODRIVE 12	40kg	-	-	-	-	-	-	-
EURODRIVE 20	-	50kg	40kg	35kg	30kg	-	-	-
EURODRIVE 50	-	120kg	105kg	95kg	85kg	-	-	-
EURODRIVE 60	-	130kg	110kg	100kg	90kg	-	-	-
EURODRIVE 120	-	-	210kg	200kg	180kg	-	-	-
EURODRIVE 150	-	-	-	-	225kg	-	-	-
EURODRIVE 230	-	-	-	-	350kg	280kg	265kg	-
EURODRIVE 330	-	-	-	-	450kg	350kg	335kg	320kg
EURODRIVE 500	-	-	-	-	-	490kg	430kg	410kg

Please note: The lifting capacities shown are correct up to an opening height of 3m, please contact the sales department for heights above 3m.

EURODRIVE 120
Non-Manual Override

Roller Shutters

120Nm

- 230V 50Hz Single phase motor.
- Supplied complete with limit adjuster tool.
- Silent running on operation.
- Without manual override.
- Tube adaptors from 70mm Oct. to 4”9swg.

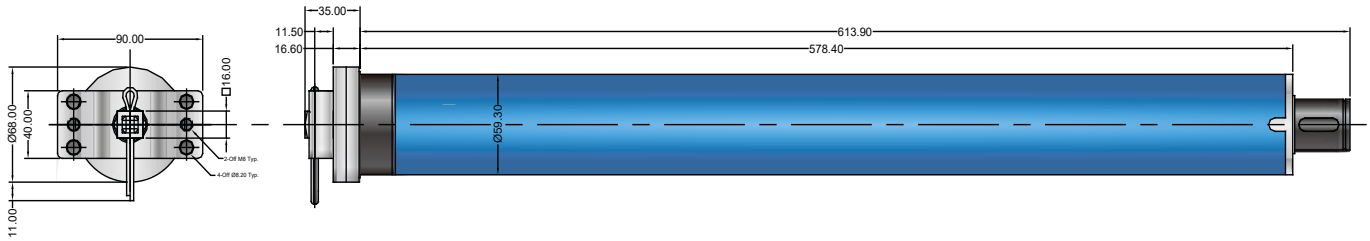
Motor comes complete with:

EUROBKT(STAR)

Technical Details

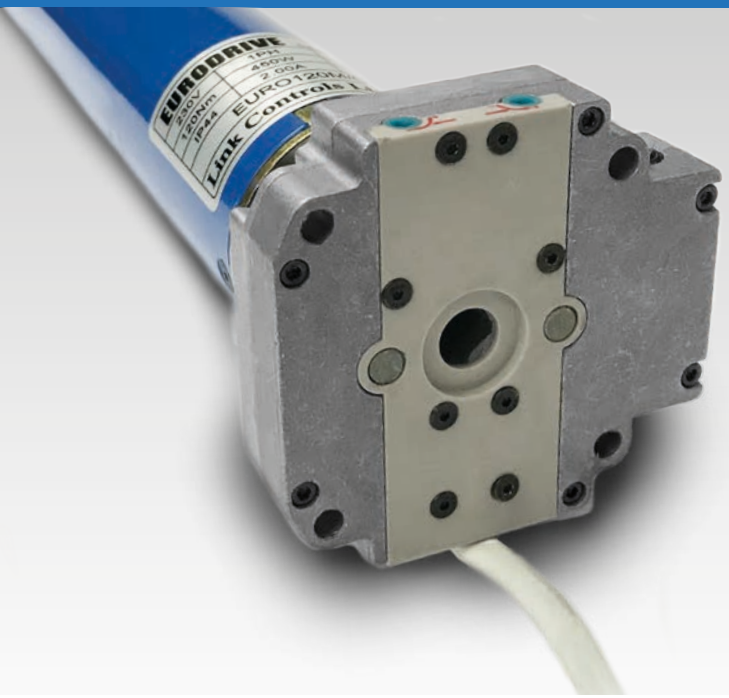
Technical Data	120 W/O
Torque	120 Nm
Power	450 W
Current	2.0 A
Voltage	230V 50Hz
R.P.M	12/min
Limit Turns	34
IP Rating	IP.44
Lifting Capacity	180Kg Ø 100mm

Dimensions (Including Mounting Bracket)



EURODRIVE 120
Through Drive Override

Roller Shutters



120Nm

- 230V 50Hz Single phase motor.
- Supplied complete with limit adjuster tool.
- Silent running on operation.
- Through drive override.
- Tube adaptors from 70mm Oct. to 4”9swg.
- Specifically designed to suit continental shutters.

Motor comes complete with:


EUROBKT(STAR)


EUROBKT-DI

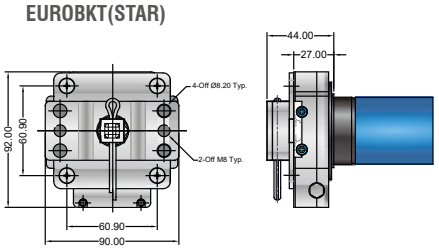

EUROEYE200

Technical Details

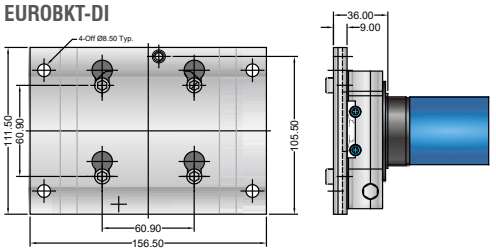
Technical Data	120 M/O
Torque	120 Nm
Power	450 W
Current	2.0 A
Voltage	230V 50Hz
R.P.M	12/min
Limit Turns	38
IP Rating	IP.44
Lifting Capacity	180Kg Ø 100mm

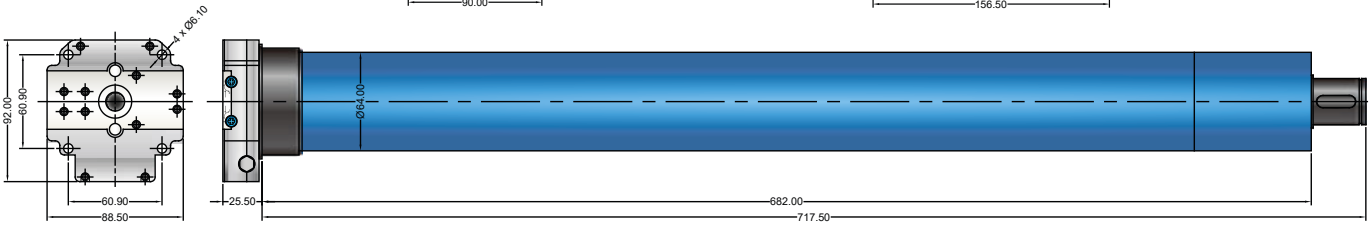
Dimensions

EUROBKT(STAR)



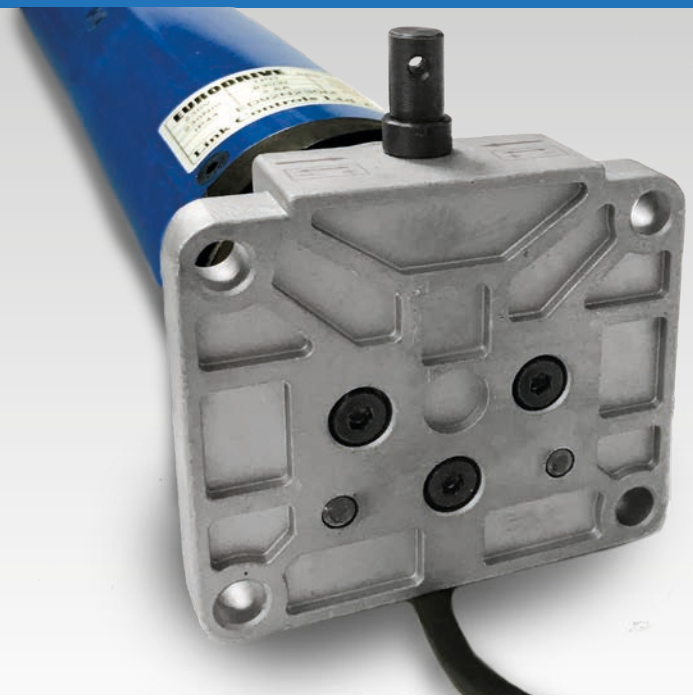
EUROBKT-DI





EURODRIVE 230
Direct Drive Manual Override

Roller Shutters



230Nm

- 230V 50Hz Single phase motor.
- Cog & Comb' adjustable limit switches.
- Integral thermal trip.
- Permanently engaged direct drive override.
- Tube adaptors from 4"16swg to 5"10swg.
- 53mm offset (does not require mounting bracket)

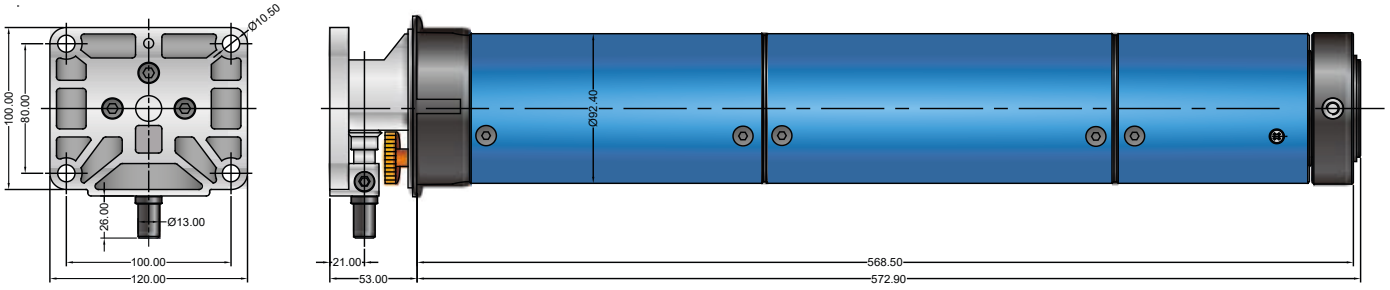
Motor comes complete with:

AM0938A

Technical Details

Technical Data	230 M/O
Torque	230 Nm
Power	830 W
Current	3.8 A
Voltage	230V 50Hz
R.P.M	12/min
Limit Turns	12
IP Rating	IP.44
Lifting Capacity	350Kg Ø 100mm

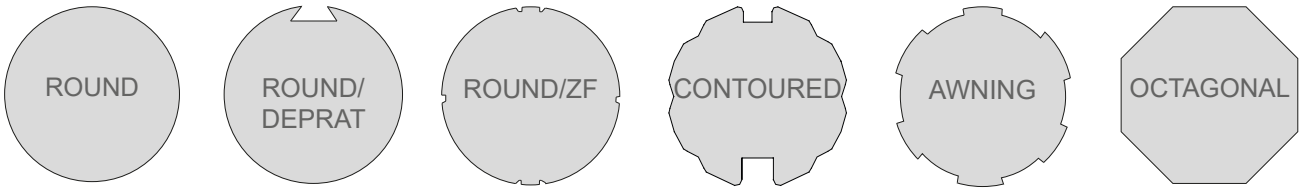
Dimensions



EURODRIVE ADAPTORS
Adaptor Types and Dimensions

Ellickson Doors
SUPPLY • INSTALL • SERVICE
Unit 16A, Six Cross Roads Business Park, Waterford, Ireland.
(T) + 353 (51) 370962 (M) + 353 (87) 2859866 www.ellicksondoors.com info@ellicksondoors.com

PRODUCT CODE	TO SUIT TUBE SHAPE(S)	TO SUIT TUBE TYPE	OD OF ADAPTOR	EURO 12W/O	EURO 20W/O	EURO 50W/O	EURO 60M/O	EURO 120W/O	EURO 120M/O	EURO 150M/O	EURO 230M/O	EURO 330M/O	EURO 500M/O
ED0711	OCTAGONAL	40mm	38mm	●									
ED0715	ROUND	40mm	38mm	●									
ED0716	ROUND	50mm	48mm	●									
ED0903	ROUND/ZF	80mm	76mm		●	●	●						
ED0904	ROUND/DEPRAT	89/90mm	85mm		●	●	●						
ED0904A	CONTOURED	85mm	82mm		●	●	●						
ED0912	OCTAGONAL	70mm	67mm		●	●	●						
ED0913	ROUND/ZF	64mm	60mm		●	●	●						
ED0914	ROUND/DEPRAT	63mm	60mm		●	●	●						
ED0916	OCTAGONAL	60mm	57mm		●	●	●						
ED0920	ROUND	4”9swg	94mm		●	●	●						
ED0930	ROUND	4”16swg	97mm		●	●	●						
ED0949	OCTAGONAL	50mm	48mm		●	●	●						
ED0956	ROUND	60mm	56mm		●	●	●						
ED0966	CONTOURED	70mm	67mm		●	●	●						
ED0967	ROUND/DEPRAT	70mm	67mm		●	●	●						
ED0968	AWNING	70mm	67mm		●	●	●						
ED0976	ROUND/DEPRAT	78mm	75mm		●	●	●						
ED0976A	CONTOURED	78mm	75mm		●	●	●						
ED1248	OCTAGONAL	70mm	67mm					●	●				
ED1256	ROUND	4”16swg	97mm					●	●				
ED1257	ROUND	4”9swg	94mm					●	●				
ED1266	ROUND/DEPRAT	89/90mm	85mm					●	●				
ED1266A	CONTOURED	86mm	82mm					●	●				
ED1275	ROUND/DEPRAT	78mm	75mm					●	●				
ED1275A	CONTOURED	78mm	75mm					●	●				
ED1556	ROUND	4”16swg	97mm							●			
ED1557	ROUND	4”9swg	94mm							●			
ED3500A	ROUND	4”9swg	94mm								●	●	
ED3501A	ROUND	4”16swg	97mm								●	●	
ED3506A	ROUND	5”10swg	119nm								●	●	
ED3510A	ROUND	5.25”8swg	123mm									●	
ED3515A	ROUND	5.5”swg	128mm									●	
ED5120	ROUND	5”10swg	119mm										●
ED5123	ROUND	5.25”8swg	123mm										●
ED5126	ROUND	5.5”5swg	126mm										●
ED5128	ROUND	5.5”8swg	128mm										●
ED5158	ROUND	6 5/8” / 168mm	160mm										●



For dimensions of individual adaptors, please download the tube motor adaptor booklet from our website

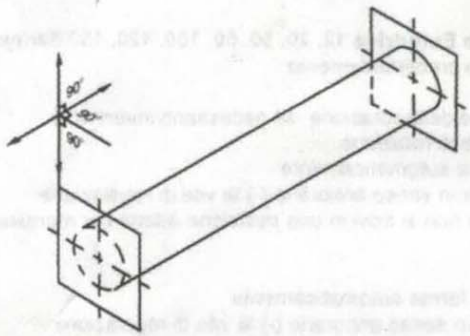
WARNING!

Read these instructions FULLY before use
Installation should only be carried out by a COMPETENT installer

Description

This range of tubular motors is designed for operation of shutters and grilles with a low duty cycle e g Shop fronts which are opened in the morning and closed at night Therefore as a precaution they have ar embedded thermal trip to prevent overheating

1. Preparation of the End Plates



CAUTION!

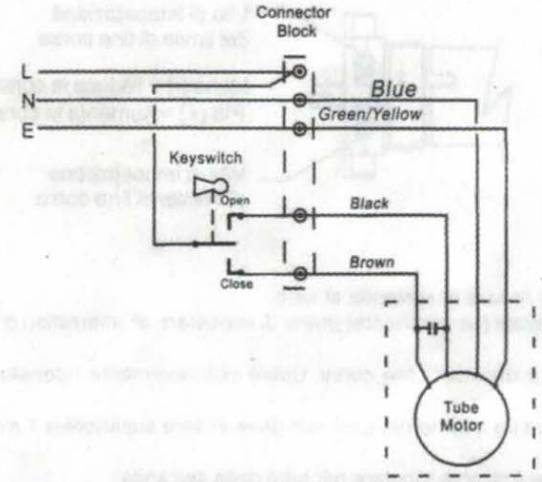
Take care to ensure the tube assembly is horizontal when fitted.

Note -

If the assembly is fitted incorrectly when the unit is put into operation, excessive forces will be put on the tube motor possibly resulting in damage to the unit.

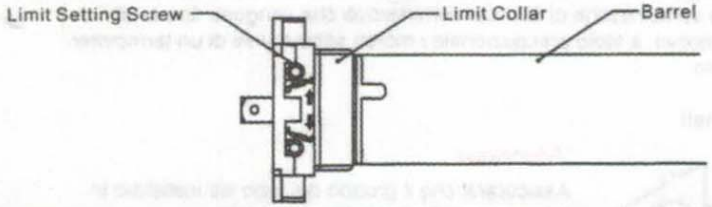
Wiring Diagram: Eurodrive 12, 20, 50, 60, 100, 120, 150 Series

All operators must be connected via fused supply and protected with a suitably rated fuse



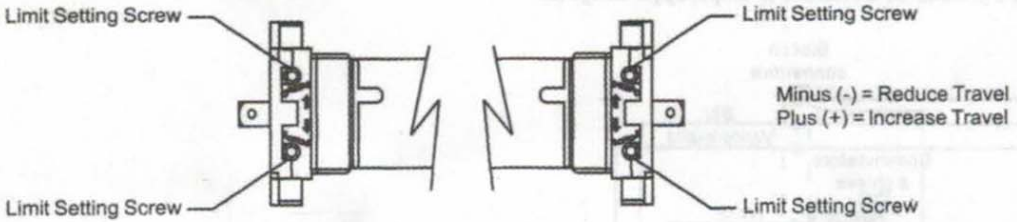
Limit Switches

The tubular geared motor has integral electromechanical limit switches that cut off the power at a position corresponding to the Fully Open & Fully Closed positions of the door
The limit switches MUST be set



Limit Setting Instructions: Eurodrive 12. 20, 50, 60, 100, 120, 150 Series

1. Electrically connect the tube motor as shown previously
2. Disconnect the roller shutter from the tube
3. Operate the rocker switch and check direction of rotation, if need be, reverse the 'grey' and 'black' wires to correct the direction of rotation
4. Lower the roller tube until the motor stops automatically.
5. While pressing the down button, turn the lower end adjustment screw anti-clockwise (-) until the roller tube is in a suitable position for attaching the roller shutter
6. Fix the roller shutter to the tube
7. Raise the roller shutter / awning until the motor stops automatically.
8. While pressing the up button, turn the upper end run adjustment screw anti-clockwise (-) until the roller shutter / awning reaches the topmost position required



WARNING!

- Do not use overly long screws to attach the roller shutter to the tube.
- Do not use the manual overrride (if applicable) prior to setting the limit switches.
- Do Not use power tools to adjust the limit position Only use the tool supplied
- The clearance between the drive adapter and the inside diameter of the tube should not exceed 1 mm
- Do not hose the motor with water.
- Do not Use excessive force to insert the tube motor into the roller tube
- If your tube motor stops working, wait for approx 20 mins. to allow the motor to cool before further operation

WARNING!

This Product **MUST** be earthed
Do not connect two or more motors in parallel

Titolo:- MOTORI TUBOLARI DELLA LINEA EURODRIVE ISTRUZIONI DI INSTALLAZIONE	Disegno N.LC-2767	Pagina N. 1 di 2
	Versione N.E	Data vers.:23/02/09
	Autore:R.A.H.	Data:06/11/06
	Controllato da:S.B.P.	Approvato da: C.H.