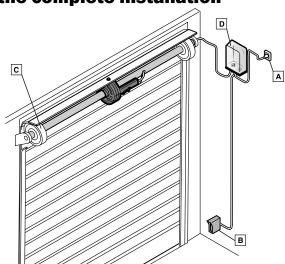


## **WARNING**

- 1.Read And Follow All Installation Warnings And Instructions.
- 2.Disconnect electric power BEFORE installing or servicing the motor. A disconnecting device MUST be provided in the permanently-wired installation to guarantee all-pole disconnection by means of a switch (at least 3 mm contact gap) or by a separate fused line of adequate capacity. Operator MUST be properly grounded and connected inaccordance with national and local electrical codes.

# **Elements of the complete installation**



A: Main power suply

B: Photocells (mirm)

C: Pulley

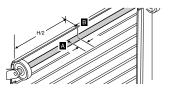
D: Operator

# **TECHNICAL SPECIFICATIONS**

Model Number	ROLLING120	ROLLING150	ROLLING180	ROLLING280	ROLLING360	ROLLING420
Power Supply Voltage/Hz	230Vac-50Hz 110Vac-60Hz	230Vac-50Hz 110Vac-60Hz	230Vac-50Hz 110Vac-60Hz	230Vac-50Hz 110Vac-60Hz	230Vac-50Hz 110Vac-60Hz	230Vac-50Hz 110Vac-60Hz
Rated Current & Power		72.3 A 520 W (230 5.0 A 590 W (110V)			/3.9 A 880 W (230V /8.5 A 1100 W (110	
Winding Flange Speed	10RPM (230V) 12RPM (110V)	10RPM (230V) 12RPM (110V)	10RPM (230V) 12RPM (110V)	10RPM (230V) 12RPM (110V)	8RPM (230V) 10RPM (110V)	8RPM (230V) 10RPM (110V)
Drive Torque	120N.m	150N.m	180N.m	280N.m	360N.m	420N.m
Lifting Capacity	150kg	160kg	200kg	200kg	300kg	360kg
MaximumHeight	3.5m	3.5m	3.5m	3.5m	3.5m	3.5m
Shutter Shaft Diameter (Inser	) 60mm(48mm)	60mm(48mm)	60mm(48mm)	60mm (48mm)	76mm(60mm)	76mm (60mm)
Flange/Drum Diameter	200mm/220mm	200mm/220mm	200mm/220mm	200mm/220mm	240mm/260mm	240mm/260mm
OperatorWeight	8.5kg	9.0kg	10.5kg	10.5kg	14.6kg	15.1kg
Limit Switches	Electro-Mechanica	l Electro-Mechanic	aElectro-Mechanic	alElectro-Mechanic	aElectro-Mechanica	Electro-Mechanica
Runing Time	4 Minutes	4 Minutes	4 Minutes	4 Minutes	4 Minutes	4 Minutes

# **Assembly**

- $1. \mathrm{Make}$  the ori $\raisebox{-1.5ex}{\ensuremath{\boxtimes}} e$  (A),  $10.5~\mathrm{mm}$  in diameter,  $5~\mathrm{cm}$  from the centre of the shutter.Remember that the cover(1) of the limit switchesmust be accessible formust be accessible for connections and subsequent adjustments.
- 2.Place the two halves (2) and (3) of the operator on the 3.Fasten the two halves of the operator using the shaft, ensuring that the screw (4) is inserted in the
  - corresponding M8 screws. Use a 6 mm Allen key.

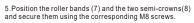






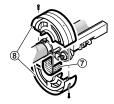


 $4\,.\mbox{Adjust}$  the operator to the shaft, locking it using the screw with nut (6).



6. Position the final shutter slat and make the fastening orifice (B), 10.5 mm in diameter.





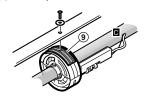


7. Move the cam by hand, bringing it up to the limit switch [2] (down). If the operator has been installed in opposite direction, the "down" limit switch is [1].

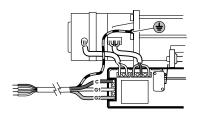
Resten the slat on the crown using the screw and corresponding washer. Use the diameter adapter (9) if necessary.

9 Make an ori⊠e (C) in the shutter shaft in order to introduce the electrical cable, ensuring it does not come into contact with the moving parts.

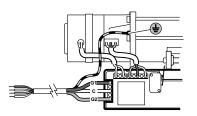




#### **Electrical connections**



1. FOR:ROLL120(230Vac)



2. FOR:ROLL120(110Vac) ROLL180(230/110Vac) ROLL420(230/110Vac) ROLL150(230/110Vac) ROLL360(230/110Vac)

### Limit switch adjustment

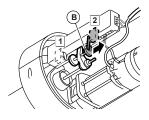
 $The {\it limit switches} are adjuste} {\it defter assembling and completing the electrical connections}.$ 

The limits witch adjustment process is described below, taking into account that the operator has been installed in the same directions described above. If it has been installed in the opposite direction the procedure is the same but taking into account that the limits witch [2] is for opening and [1] for closing.

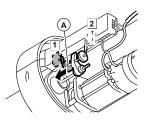
1. With the door in closed position, slide the adjustment knob (B) until the closing it switch [2] ins.

2. Using the electrica bontrols installed previously, open the door to it sopening position. In this position, slide the adjustment knob (A) until the opening limit switch [1] runs.





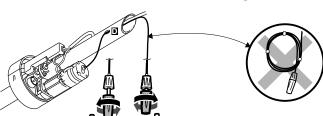




# Unlocking

1. If your operators ⊠tted with an unlockingchanism, make an ori⊠c(D) in the shuttershaft in orderto pass through the unlocking cable.

2. Install the unlocking knob in an accessible place, ensuring the cable istaut.



Unlocking for manual operation:

Release the knob until the shutter can be movedmanually.

Motorised operation locking:

Turn theknob until the oprator becomes locked.