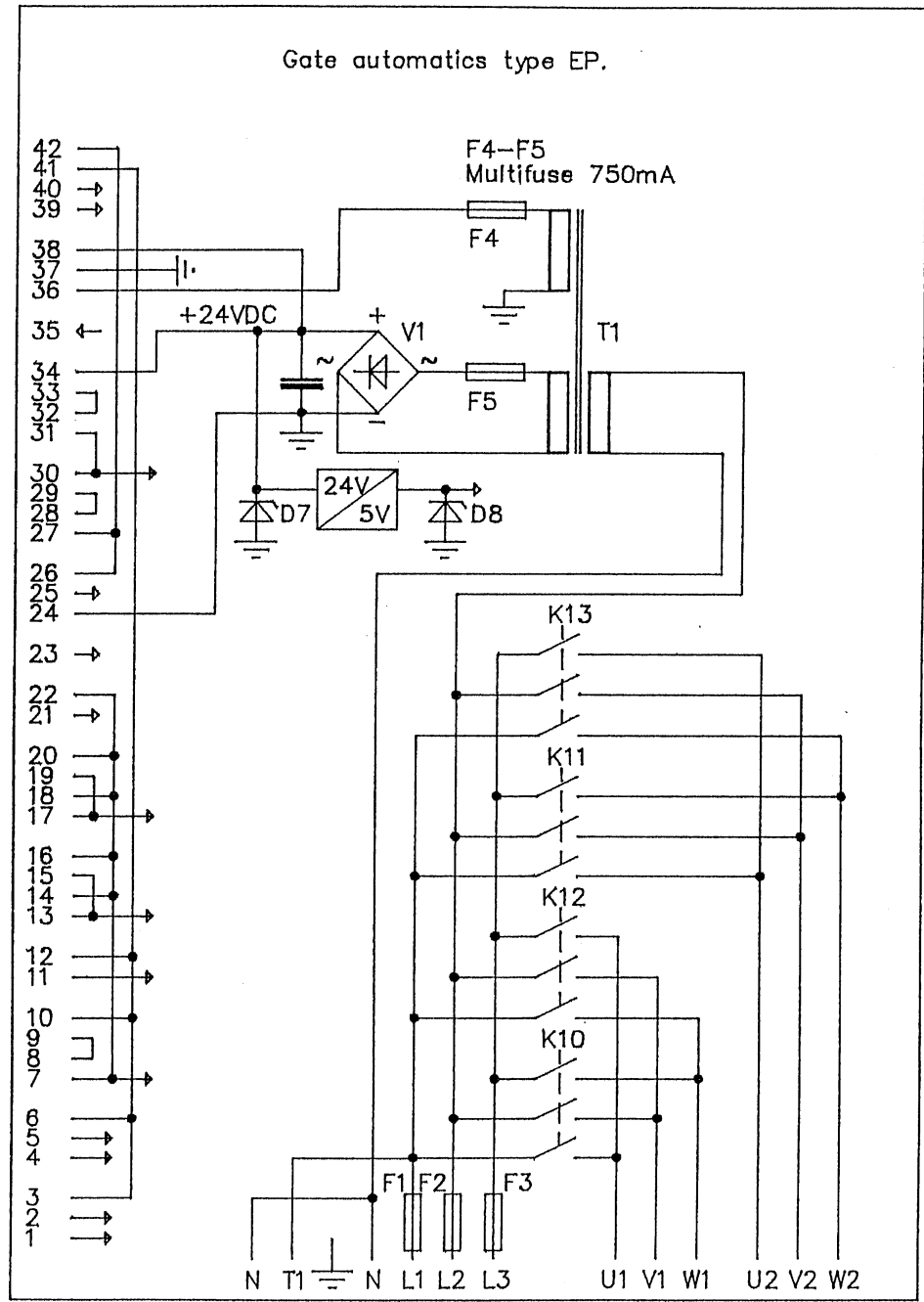
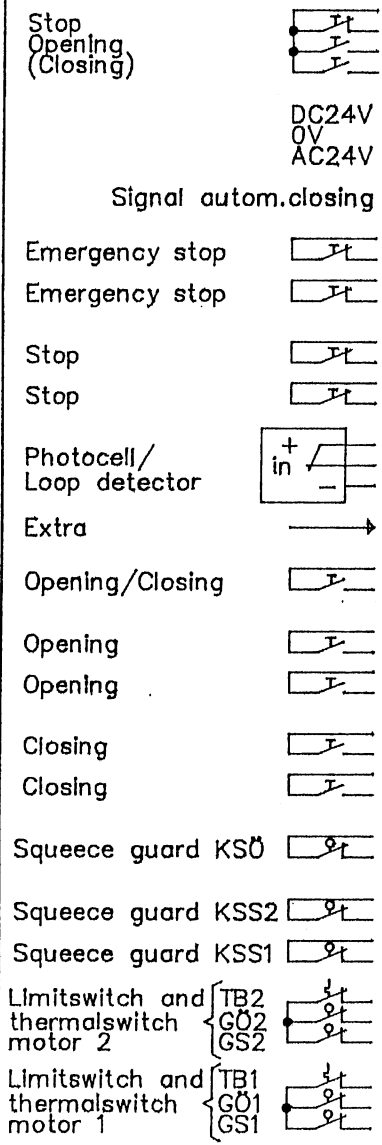


A1

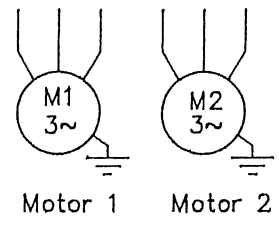
Gate automatics type EP.



Fuse F1, F2, F3  
3xT3,15A

Extra output  
220V. 1A.

3x380V+N+PE  
fuse max 10A



KS0= Squeeze guard opening.  
KSS1,2= Squeeze guard opening.  
TB1,2= Thermalswitch.  
G01,2= Limitswitch open.  
GS1,2= Limitswitch closed.



Functiondiagram - gate automatics typ EP.  
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ES4-10006

**FUNCTION DESCRIPTION FOR THE TYPE EP 100 R CONTROLLER**

This controller can be used to control one or two motors. When controlling a single-motor drive, it is referred to as the Type EP 11, and as the Type EP 21 when controlling a dual motor drive.

Functions Terminal nos.	Description
<b>ÖPPNA (Open)</b> 17-18, 19-20.	Opens the door directly. If the door is closing, and the OPEN command is received, the door will open. As long as the OPEN command is present, the door cannot be closed in any way. In the open position, OPEN resets the AUTOMATIC CLOSING time.
<b>STÄNG (Close)</b> 13-14, 15-16.	Closes the door directly. If the door is opening and the CLOSE signal is received, the door does not start to close: instead, the door must first be stopped, after which a CLOSE order can be given.
<b>ÖPPNA/STÄNG (Open/Close)</b> 21-22	Opens the door if it is closed or partly open. In the fully open position, the door will close on receipt of this command. If the door is closing when the OPEN/CLOSE command is received, it will open. If it is opening when the command is received, it will not close.
<b>NÖDSTOPP (Emergency stop)</b> 31-32, 33-34	Stops the door unconditionally. The control power supply to the contactors is interrupted. After operation of the emergency stop switch, a new start command must be given. Automatic closing does not restart. The pedestrian door contact switch is also connected to this circuit. Emergency stop circuits not in use must be shorted out by means of links.
<b>STOPP (Stop)</b> 27-28, 29-30.	The same function as EMERGENCY STOP, except that if the AUTOMATIC CLOSE command has been given, the door will continue to close when the switch is released. Stop circuits not in use must be disabled by means of links.
<b>FC/SL (Photocell/loop)</b> 24-26	The photocell or vehicle loop reverses the direction of travel if the door is closing, making it open fully. If the door is already opening, FC/SL does nothing. The door cannot be closed if FC/SL is activated. When the door is fully open, the AUTOMATIC CLOSING time is reset. Terminal 26 is the positive power supply, 24 is the negative and 24 is the input signal.
<b>LIMITSWITCHES</b>	
GS1, 1.	Stops motor 1 in the closed position.
GÖ1, 2.	Stops motor 1 in the open position.
GS2, 4.	Stops motor 2 in the closed position.
GÖ2, 5.	Stops motor 2 in the open position.

**THERMAL OVERLOAD SWITCHES**

Term.1 3  
Term.2 6

These switches operate in the same way as the EMERGENCY STOP switch. AUTOMATIC CLOSING does not restart the door. The switches are fitted in the motor winding. If only one motor is to be used, it must be connected as motor 1, and terminals 4-5-6 must be left open.

**KSS (Safety guard closing)**  
7-8, 9-10

If this switch is operated while the door is closing, both motor reverse and open the door to the fully open position. The safety protection circuit is common to both motors. The circuit is inactive when the door is opening. If the safety protection strip is damaged (i.e. indicating constant contact) (LED KSS OK is extinguished), the door can be closed by the CLOSE button (S4) on the circuit board. To do this, the button must be held depressed until the door has closed fully, as otherwise the door will open again. Safety protection circuits not used must be disabled by being short-circuited by links.

**KSÖ (Safety guard opening)**

11-12

If KSÖ is operated while the door is opening, the motor reverse and the door will open for two seconds. The switch is inoperative when the door is closing. If this feature is not required, it must be disabled by short-circuiting the terminals.

**AUT. STÄNGN (Automatic closing)**

0 - No automatic closure	6 - 7,7 s	C - 51,2 s
1 - 1,3 s	7 - 10,2 s	D - 1 min 22,0 s
2 - 2,6 s	8 - 15,4 s	E - 2 min 2,9 s
3 - 3,8 s	9 - 20,5 s	F - 2 min 43,8 s
4 - 5,1 s	A - 25,6 s	
5 - 6,4 s	B - 41,0 s	Other times are available on request

**EXTRA**  
23.

As standard, this terminal is not connected to any internal part of the controller, and is intended for connection of external equipment

**DC 24V, AC 24V**  
36, 37, 38.

Connection for power supply to external units. Maximum permissible loading is 0,3 A on each circuit.

**OTHER.**

Run time limitation is provided by the automatic control gear, stopping the motor if the door has not reached its end position within 50 seconds. This avoids damage that can occur as a result of the door becoming stuck, broken drive belts etc. Several additional functions are available as extras, such as load guard, traffic light control, vehicle loops, magnetic locking, etc.