

Sassi Lift Systems Limited

Operating Instructions

Comfort Lift Door Drive

AT 18

Date of Issue: Rev.07-02/06

SIEMENS

Comfort lift Door Drive

AT 18 Ratio 15:1

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14 Technical Data

14.1 DC-current motor

	Motor 2	Motor 3
Connection Voltage	24 V DC	30 V DC
Maximum Speed	0,5 m/s	0,65 m/s
Protection Class	IP20	IP54 (gears IP40)
Transmission	1:15	1:15
Pulse generator	100 impulse/revolution	100 impulse/revolution
Nominal Current	1,8 A	4 A
Maximum Door Weight	120 kg	180 kg

14.2 Mains current transformer

Connection Voltage	230V, 50-60 Hz
Tolerance	+ - 15 %
Onsite Circuit Breaker	10 A
Maximum Current Demand	2,2 A
Protection Class	IP54
Nominal Outlet Voltage (unsmoothed)	17,3 V DC rms (full load), 23 V DC rms (bei 20mA)
Maximum Power Secondary	15,9 A
Mains Filter	Installed

14.3 Control unit

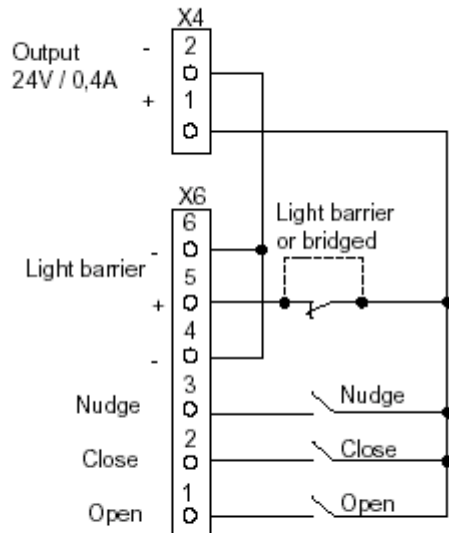
Connection Voltage	Maximum 36 V DC
Protection Class	IP20
Control Inputs	+10 V up to +28 V DC, 9 up to 27 mA per input (potential free, p-switching)
Door Width	0,3 m up to 4,00 m
Maximum Counterweight	6 kg
Output Relay Breaking Capacity (Option)	230 V AC o. 50 V DC (resistive load); 1,0 A (min. 10mA)
Maximum Acceptable Storage Temperature	-40... +85° C
Maximum Acceptable Operating Temperature	-20... +50° C
Humidity Demands	no condensation
Emergency Power Inlet (Option)	24 V DC \pm 15 %; 1,6 A (e.g. lead acid rechargeable battery)
Recommended rechargeable Battery Capacity	2 Ah, onsite(!) with 6A delayed action circuit breaker. For an opening and closing cycle energy of up to 2.4Wh is needed (0.1Ah at 4V)
24V DC – Output	Maximum output power 400mA, short-circuit-+overload-proof. CAREFUL: Do not supply with external voltage.

14.4 Regulations and standards

EMV-Inspection	EN 12015 and EN 12016
TÜV	Model tested
CE	Certified
HALT-Test	Prototype tested to 5grms at temperatures of -45° C to +130° C.
Elevator standard EN81	Conform

14.8 Appendix 8: Control input connection diagram

Connection with internal 24V Supply



Connection with internal 24 V supply

Figure 9

Nudge = *CLOSE* and *Nudge* command at the same time (only effective in the closing direction).



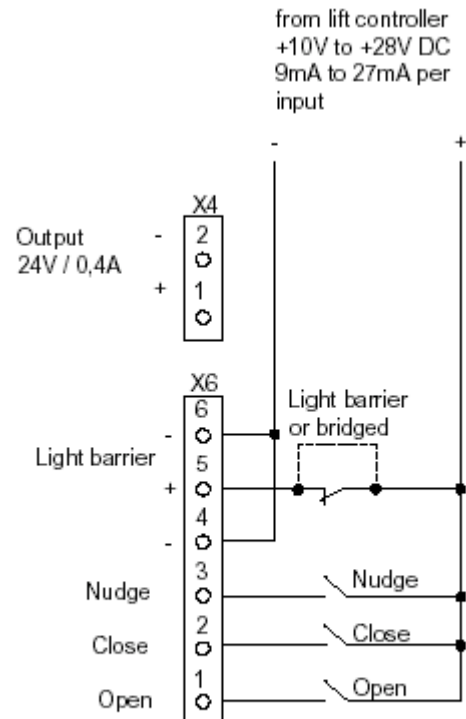
Note

The 24V voltage output X4 may not be connected to an external voltage potential (e.g. main lift control).
A connection of X4 input 2 (minus 24V) to ground is possible.

A door close command should be present when the lift is running or parked at rest with doors closed (i.e. through auxiliary contacts on a main contactor in parallel to door close contacts) This will hold the doors closed or open at a reduced torque.

Please Note: With doors open, there must be a door open command present.

14.8 Appendix 8: Control input connection diagram Connection with external Supply



Connection with external supply

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