# Door controls for ELEKTROMATEN® ST

WS 905 TS 400

# WS 905 - Reversing contactor control

### Technical data

- Suitable for ELEKTROMATEN ST with NES mechanical limit switch
- Supply voltage: 1N~230V, PE 3~230V, PE 3N~400V, PE
- Control voltage: 24V AC
- 2 reversing contactors
- Permissible temperature range: -10°...+50°C

# Housing

- Dimensions WxHxD [mm]: 145 x 101 x 209
- Protection class: IP54

# Design

- Mechanically locked reversing contactors
- Positioning button CLOSE/OPEN
- Plug-in connection cable to ELEKTROMATEN for configuration with integrated mechanical limit switch NES
- Available with optional readywired CEE plug, regarded as mains circuit breaker under the terms of EN 12453.

# WS 905



### **Functions**

Operating mode: Hold to run CLOSE/OPEN via an external control device

# TS 400 - Automatic door control

# Technical data

- Suitable for ELEKTROMATEN ST with DES digital limit switch or NES mechanical limit switch
- Supply voltage: 1N~230V, PE / 3~230V, PE / 3N~400V, PE
- Control voltage: 24V DC
- Mains supply ratings for external devices: 24V DC (0.5A) / 230V AC (1A)
- 2 integrated reversing contactors (up to 3kW motor power)
- Display for programming (2 lines with 20 signs)
- Permissible temperature range: -10°...+50°C

# Housing

- Synthetic housing with transparent cover, Dimensions WxHxD [mm]: 230x300x85
- Protection class: IP55

# Design

- Plugged terminals with screw connections
- Pluggable cable sets to the ELEKTROMATEN with DES or NES
- Integrated push buttons for the adjustment of the door positions in use with DES
- Connectors for 3 control devices (2 for the door area, 1 for gatekeeper operation)

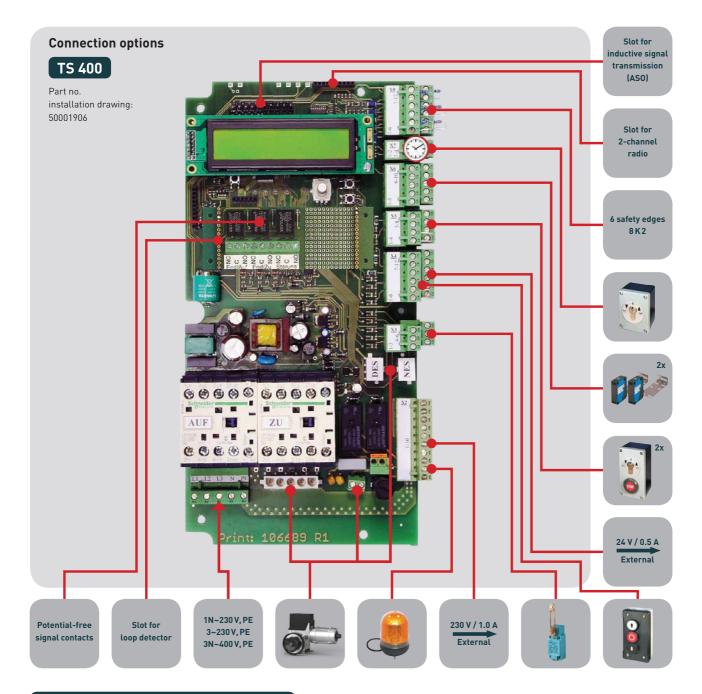
# Functions

- Automatic detection of DES or NES limit switches
- Intermediate open position for passengers (for use with NES is an additional limit switch required)

- Settings via selector switch with digital display
- Adjustment of the door final positions and intermediate positions from the operator level (DES)
- Self-hold in both directions, in case of failure automatic switching to Hold to run mode
- Safety edge system 8k2, evaluation for 6 safety edges
- Connection plugs for control devices with next function (pull switch or external radio receiver)
- Integrated timer with week program, OFF via external switch
- Automatical run time monitoring (real runtime + 8%)
- Automatic closing feature adjustable (2-999 sekc.), adjustable in steps of 2 seconds
- Possibility of adjustable clearance time (1-99 Sek.)
- Separated adjustment of the automatic closing function for complete- or partially opening
- Adjustable function of the traffic lights in the final door positions or the clearance time
- Adjustable reaction of the photo cell in the final limit position OPEN
- Fault memory
- Cycle counter (non-resettable) and maintenance cycle counter
- Modul with 3 Relays for the final door positions and faults (potential free)



Subject to alterations. [18\_Gc] 4.021



# Door controls and accessories





Designation			Description	Part no.
Designation			Description	raitilo.
WS 905	2- Reversing contactors 24 V	0	For drives without limit switch; with 0.8m cable and connection plugs for ELEKTROMATEN, without CEE-plug	20090500.00001
WS 905	2- Reversing contactors 24 V	0	For drives with limit switch; with 0.8m cable and connection plugs for ELEKTROMATEN, without CEE-plug	20090500.10001
TS 400		0	ST-door control for DES/NES	20040000.00001
DES connection cable for TS 400		3	Connection to ELEKTROMATEN drives with digital limit switch, pluggable on both sides; length of cable: 3.0m	20003024.00300
NES connection cable for TS 400		4	Connection to ELEKTROMATEN drives with mechanical limit switch, pluggable on both sides; length of cable: 3.0m	20003387.00300
Inductive signal transmission (ASO)		6	Modul for TS 400 for monitoring of inductive signals from safety edges (brand ASO)	40014240
Radio receiver 2-channel		6	Modul for TS 400 (for Opening and Intermediate opening)	40014833
Loop detector 2-channel		0	Modul for TS 400 (for OPEN- and CLOSE signal)	40016544
Separate limit switch 8		8	Inductive limit switch (2 pc.) with 1,5m cable; M30x1,5	30004270

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