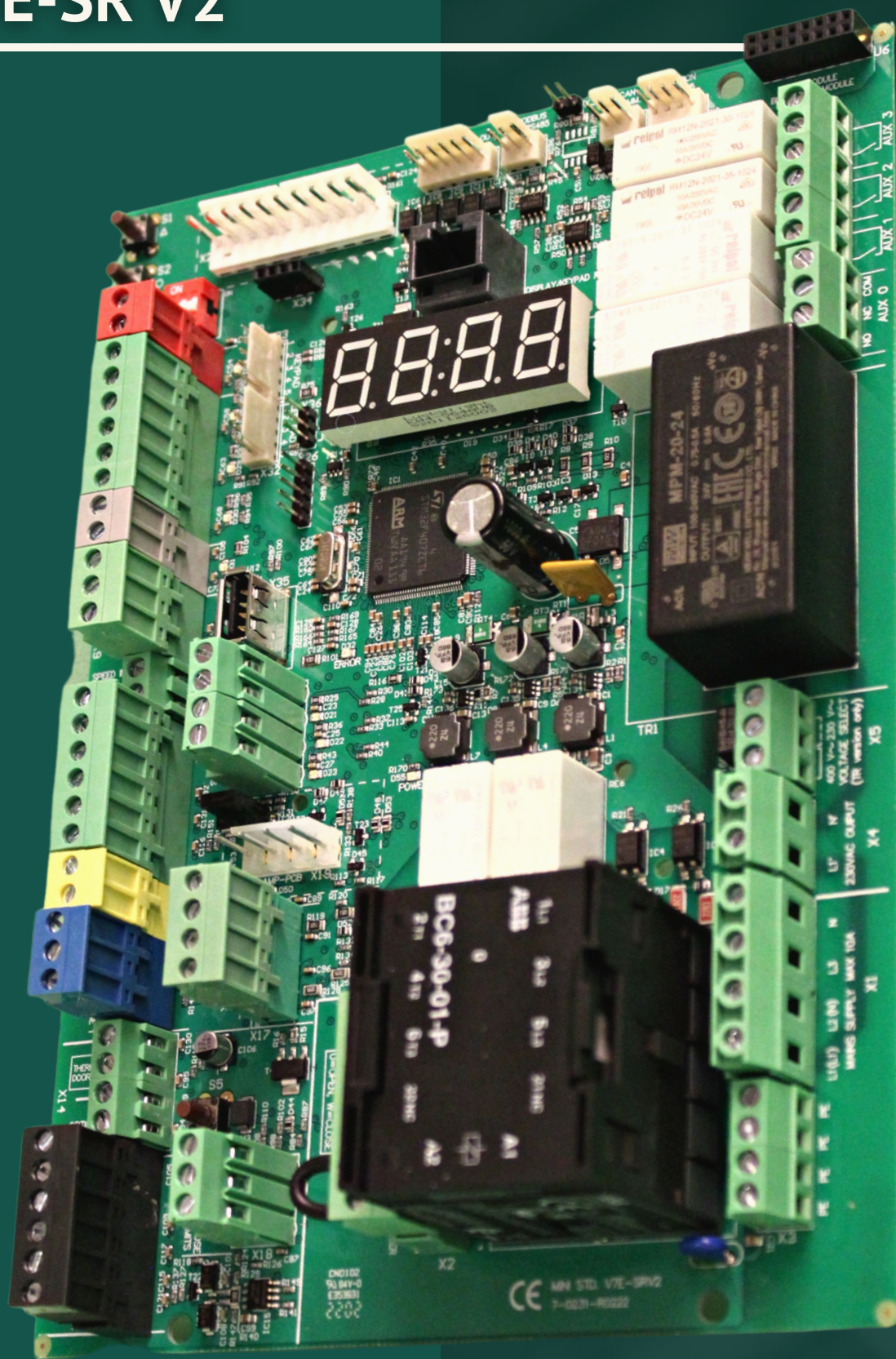


CONTROLLER PCB V7E-SR V2

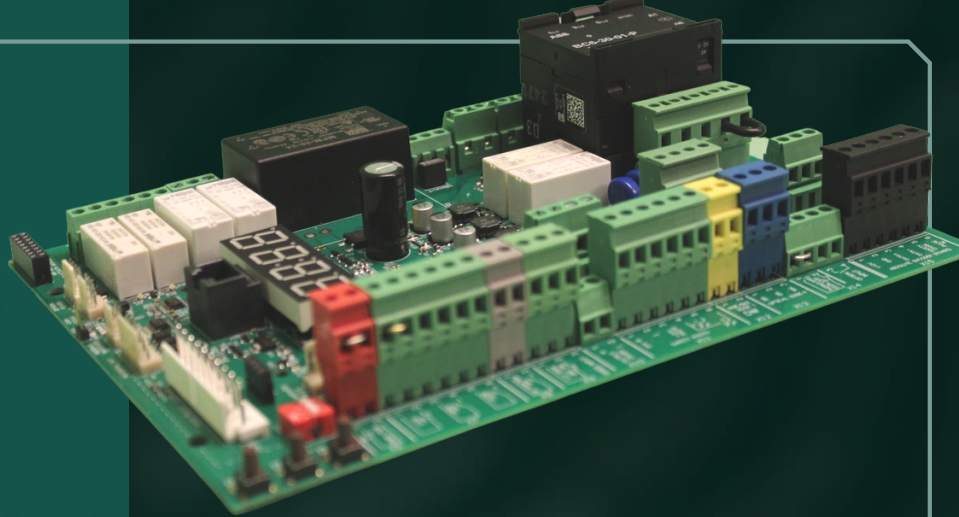
DALMATIC
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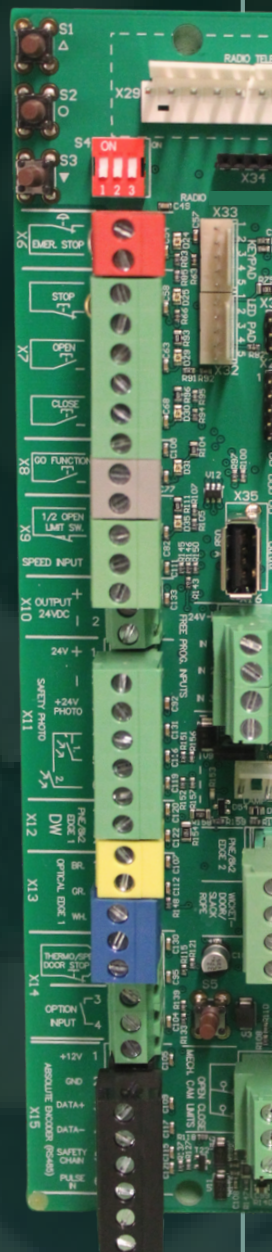
TECHNICAL DETAILS

Supply voltage:	400VAC \pm 10% L1,L2,L3,N,PE og 230VAC \pm 10% L1,L2,L3,PE. 50/60Hz, Main fuse max: 3 x 10A Isolation U_i = 400V 400VAC \pm 10% L1,L2,L3,PE and 230VAC \pm 10% L1,L2,L3,PE. (only TR option)
Temperature range (operate)	-10... +50°C
Humidity	Op til 93% RH non-condensing.
Vibration	Low-vibration installation, wall mounted.
Printdimensioner	162 x 225 x 80 mm
Enclosure data	IP65 (with normal cable glands – IP54) 293 x 190 x 100 mm, ABS
Low voltage supply:	Switch-mode type 230VAC/24VDC 900 mA. Double insulated and overload protected. Transformer 400VAC/18VAC 18VA (only as TR option) with build-in thermo fuse and protected with multifuse on secondary windings.
Motor output (Contactor).	Max motor load by 3 x 400VAC: 4 kW Max motor load by 3 x 230VAC: 2.3 kW Max motor current: 8.5A Special 1-phase motor running also possible.
Emergency stop, Stop, Termo spec. door stop and safety chain.	Function as normal stop. Emergency stop also disconnect power to contactor coil as double safety.
24VDC output.	24 VDC regulated. Max load 600 mA. 24 VDC \pm 20% (non-regulated), (only as TR option) Max load 250 mA.
Safety edge inputs:	Two PNE/air switch (working at 24VDC -NC)) Two Electric type - 8k2 termination \pm 10% One Optical type (Fraba OSE or Dalmatic TSS/RSS) (All with test function (Performance level C, Category 2)
Photo input.	Two 24VDC With test function (Performance level C, Category 2)
Input for wicket door and slack rope	One special input for "wicket door/slack cable circuit", selectable type
Electronic limits	Encoder: MTM Dalmatic multiturn, Feig multiturn og Kostal singleturn. (RS485, Data+ Data-, terminated with 120 Ohm) (MTM Dalmatic has build-in tachometer for torque control)
Torque control:	Tacho based input for torque control. (4 pulses/motor-turn).
Other inputs:	Termo, safety chain, option input.
Programable inputs:	3 pcs. Free programable 24VDC
Relay outputs	4 pcs. Two 250V/8A, One 250V/12A, One 250V/16A.
230V AUX output	230V terminals output for other purposes. (not TR version)
Radio connector	Plug-in Teleco
Display	Graphic display with backlight. Mounted on lid or on PCB inside the enclosure. Alternative low cost 4 x LED digit mounted on PCB inside enclosure.
Traffic light	Plug-in for traffic light. (LAMP-PCB)

CONTROLLER V7E-SR V2 PCB FOR SECTIONAL DOORS FEATURES:



- AC motor size up to 4.0 kW, 3 x 400VAC. (1 x 230VAC 0.75 kW)
- User friendly graphic display keypad with backlight for easy programming and Door status observations.
- Connection for electronic limits encoders. (Dalmatic, Feig, Kostal) or mechanical limits.
- Connection for 3 safety edge types with test function. (24VDC Pneumatic, 8k2 electric or optical).
- Connection for extra safety edges with test function. (24VDC Pneumatic or 8k2 electric).
- Connection for wicket door and slack rope circuit. (with test function)
- 2 Photo inputs with automatic test function. (6 month check not necessary)
- Terminals for external push-buttons – Emergency STOP - OPEN – STOP - CLOSE.
- Plug-in connector for Teleco radio or option radio.
- 4 AUX relay outputs for free programming.
- 24VDC 600 mA power output for other equipment.
- Low standby power consumption with switch-mode power supply (Not TR version).
- LED on inputs and relay outputs for easy fault finding.
- Plug-in screw terminals for easy installation/replacement.
- Different colours on screw terminals reducing mounting faults.
- Plug-in connector for Lamp-PCB for traffic light or Relay module-1.
- Automatic learning encoder type and rotation direction.
- Option for 24 Hour clock for log register.
- Option for Bluetooth, Wi-Fi and CAN bus communication.
- 4 x digital optocoupler output for inverter drive.
- Modbus communication. (for e.g. inverter)
- USB – easy reprogramming/update of the control by USB stick.
- Prepared for inverter usage.
- Contactor monitoring with second switch off safety – (in case of welded main contactor).
- Torque/force control.
- Automatic adjustment of force control related to door wear and annual variations. 4 setpoint windows.
- Designed for standard EN 12453:2017.with reference to EN13849-1.
- Certified Class B functional safety software.



V7E-SR V2 PCB CIRCUIT BOARD

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