

*** SPARE PART*** SIMATIC DP, ELECTRONIC MODULE
DIGITAL, FOR ET 200B, W=160MM, 16DO 24V DC, (12X0.5A;
4X2A), DEGR. OF PROTECT. IP20,STANDARD

| Supply voltage | |
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| Rated value (DC) | 24 V; L1+, L2+, L3+; value at t < 0.5 s: 35 V |
| permissible range, lower limit (DC) | 18.5 V |
| permissible range, upper limit (DC) | 30.2 V |
| Input current | |
| Current consumption, typ. | 80 mA; from L3+; logic |
| I ² t | 0.05 A ² ·s; with starting current inrush |
| Power loss | |
| Power loss, max. | 5 W |
| Hardware configuration | |
| Rack | |
| <ul style="list-style-type: none"> required terminal block | TB1/DC, TB1-4/DC, TB3/DC, TB3-4/DC |
| Digital outputs | |
| Number of digital outputs | 16 |
| Short-circuit protection | Yes; Electronic |
| Limitation of inductive shutdown voltage to | typ. (L1+, L2+) -55 V |
| Controlling a digital input | Yes |
| Switching capacity of the outputs | |
| <ul style="list-style-type: none"> on lamp load, max. | 5 W; at I = 0.5 A; max. 10 W at I = 2 A |
| Output voltage | |
| <ul style="list-style-type: none"> Rated value (DC) for signal "0", max. for signal "1", min. | 24 V 2 V; idling UE -3 V |
| Output current | |
| <ul style="list-style-type: none"> for signal "1" permissible range, max. for signal "0" residual current, max. | 2 A; 2x 2 A and 6x 0.5 A 1 mA |
| Switching frequency | |
| <ul style="list-style-type: none"> with resistive load, max. with inductive load, max. on lamp load, max. | 100 Hz 0.5 Hz 8 Hz |
| Total current of the outputs (per group) | |
| all mounting positions | |
| — up to 60 °C, max. | 4 A |

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| Cable length | |
| • unshielded, max. | 100 m |
| Interfaces | |
| PROFIBUS DP | |
| • Transmission rate, max. | 12 Mbit/s |
| • SYNC capability | Yes |
| Protocols | |
| Bus protocol/transmission protocol | PROFIBUS DP |
| Interrupts/diagnostics/status information | |
| Diagnostics indication LED | |
| • RUN LED | Yes |
| • Bus fault BF (red) | Yes |
| • Status indicator digital output (green) | Yes |
| Potential separation | |
| between electronic block and PROFIBUS DP | Yes |
| Potential separation digital outputs | |
| • Potential separation digital outputs | No |
| • between the channels, in groups of | 8 |
| Degree and class of protection | |
| Degree of protection acc. to EN 60529 | IP20 |
| Ambient conditions | |
| Ambient temperature during operation | |
| • horizontal installation, min. | 0 °C |
| • horizontal installation, max. | 60 °C; 40°C for other mountings |
| Air pressure acc. to IEC 60068-2-13 | |
| • permissible range, lower limit | 795 hPa |
| • permissible range, upper limit | 1 080 hPa |
| Relative humidity | |
| • Operation, min. | 15 % |
| • Operation, max. | 95 %; RH class 2 in accordance with IEC 1131-2 |
| Vibrations | |
| • Operation, tested according to IEC 60068-2-6 | Yes; IEC 68, Part 2-6; 10 to 57 Hz; (constant amplitude 0.075 mm); 57 to 150 Hz; (constant acceleration 1 g) |
| Shock test | |
| • tested according to IEC 60068-2-27 | Yes; IEC 68, Part 2-27; half-sine, 15 g, 11 ms |
| Connection method | |
| Design of electrical connection for the inputs and outputs | Screw-type and spring-loaded terminals, permanent wiring; 3 and 4-wire connection |
| Dimensions | |

| | |
|-----------------------|-------------------|
| Width | 160 mm; EB and TB |
| Height | 130 mm; EB and TB |
| Depth | 60 mm; EB and TB |
| Weights | |
| Weight, approx. | 600 g; EB and TB |
| last modified: | 08/12/2017 |