



SIMATIC DP, 5 electronic modules for ET 200S, 2 DO High Feature 24 V DC/2 A, 15 mm width, Diagnostics short circuit and wire break, Substitute value output with LED SF (group fault) 5 units per packing unit

| Supply voltage | |
|--|--|
| Reverse voltage protection | Yes; when using the same load voltage as on the power module |
| Load voltage L+ | |
| <ul style="list-style-type: none"> Rated value (DC) | 24 V; From power module |
| <ul style="list-style-type: none"> Reverse polarity protection | Yes; polarity reversal can lead to the digital outputs being connected through |
| Input current | |
| from load voltage L+ (without load), max. | 5 mA; Per channel |
| from backplane bus 3.3 V DC, max. | 10 mA |
| Power loss | |
| Power loss, typ. | 1.4 W |
| Address area | |
| Address space per module | |
| <ul style="list-style-type: none"> Address space per module, max. | 1 byte |
| <ul style="list-style-type: none"> with packing | 2 bit |
| Digital outputs | |
| Type of digital output | Source output (PNP, current-sourcing) |
| Number of digital outputs | 2 |
| Short-circuit protection | Yes |
| <ul style="list-style-type: none"> Response threshold, typ. | 4 A |
| Limitation of inductive shutdown voltage to | -55 to -60 V, typ. L+() |
| Controlling a digital input | Yes |
| Switching capacity of the outputs | |
| <ul style="list-style-type: none"> on lamp load, max. | 5 W |
| Load resistance range | |
| <ul style="list-style-type: none"> lower limit | 12 Ω |
| <ul style="list-style-type: none"> upper limit | 3 400 Ω |
| Output voltage | |
| <ul style="list-style-type: none"> for signal "1", min. | L+ (-1 V) |
| Output current | |
| <ul style="list-style-type: none"> for signal "1" rated value | 2 A |
| <ul style="list-style-type: none"> for signal "1" permissible range, min. | 7 mA |
| <ul style="list-style-type: none"> for signal "1" permissible range, max. | 2.4 A |
| <ul style="list-style-type: none"> for signal "0" residual current, max. | 0.5 mA |
| Output delay with resistive load | |
| <ul style="list-style-type: none"> "0" to "1", max. | 100 μs |
| <ul style="list-style-type: none"> "1" to "0", max. | 400 μs |
| Parallel switching of two outputs | |
| <ul style="list-style-type: none"> for uprating | No |
| <ul style="list-style-type: none"> for redundant control of a load | Yes; per module |
| Switching frequency | |

| | |
|---|------------------------------------|
| <ul style="list-style-type: none"> • with resistive load, max. | 100 Hz |
| <ul style="list-style-type: none"> • with inductive load, max. | 2 Hz; 0,5 H |
| <ul style="list-style-type: none"> • on lamp load, max. | 10 Hz |
| Total current of the outputs | |
| <ul style="list-style-type: none"> • Current per module, max. | 4 A |
| Cable length | |
| <ul style="list-style-type: none"> • shielded, max. | 1 000 m |
| <ul style="list-style-type: none"> • unshielded, max. | 600 m |
| Interrupts/diagnostics/status information | |
| Diagnostics function | Yes |
| Substitute values connectable | Yes; 0/1 |
| Diagnoses | |
| <ul style="list-style-type: none"> • Diagnostic information readable | Yes |
| <ul style="list-style-type: none"> • Wire-break | Yes; channel by channel |
| <ul style="list-style-type: none"> • Short-circuit | Yes; channel by channel |
| Diagnostics indication LED | |
| <ul style="list-style-type: none"> • Group error SF (red) | Yes |
| <ul style="list-style-type: none"> • Status indicator digital output (green) | Yes |
| Parameter | |
| Remark | 3 byte |
| Diagnostics wire break | Disable / enable |
| Diagnostics short-circuit | Disable / enable |
| Response to CPU/master STOP | Substitute a value/keep last value |
| Potential separation | |
| Potential separation digital outputs | |
| <ul style="list-style-type: none"> • between the channels | No |
| <ul style="list-style-type: none"> • between the channels and backplane bus | Yes |
| Isolation | |
| Isolation tested with | 500 V DC |
| Dimensions | |
| Width | 15 mm |
| Height | 81 mm |
| Depth | 52 mm |
| Weights | |
| Weight, approx. | 40 g |

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