

# SIEMENS

## Product data sheet

## 6ES7222-1BF22-0XA0



SIMATIC S7-200, DIGITAL OUTPUT EM 222,  
FOR S7-22X CPU ONLY, 8DQ, 24 V DC,

|   |  |
|---|--|
| <b>Supply voltage</b>                       |  |
| Load voltage L+                             |  |
| Rated value (DC)                            | 24 V   |
| permissible range, lower limit (DC)         | 20.4 V   |
| permissible range, upper limit (DC)         | 28.8 V   |
| <b>Input current</b>                        |  |
| from backplane bus 5 V DC, max.             | 50 mA  |
| <b>Power losses</b>                         |  |
| Power loss, typ.                            | 2 W  |
| <b>Digital outputs</b>                      |  |
| Number/binary outputs                       | 8  |
| Functionality/short-circuit strength        | No ; to be provided externally (see manual package "Setting up an S7-200") |
| Limitation of inductive shutdown voltage to | L+ (-48 V)   |
| <b>Output voltage</b>                       |  |
| for signal "1", min.                        | 20 V   |

|   |                   |
|---|-------------------|
| <b>Output current</b>                                 |                   |
| for signal "1" permissible range for 0 to 40 °C, max. | 750 mA            |
| for signal "1" permissible range for 0 to 55 °C, max. | 750 mA            |
| for signal "0" residual current, max.                 | 10 µA             |
| <b>Parallel switching of 2 outputs</b>                |                   |
| for increased power                                   | Yes               |
| <b>Aggregate current of outputs (per group)</b>       |                   |
| all mounting positions                                |                   |
| up to 40 °C, max.                                     | 3 A               |
| maximum current per conductor/group                   | 3 A               |
| <b>horizontal installation</b>                        |                   |
| up to 55 °C, max.                                     | 3 A               |
| <b>Relay outputs</b>                                  |                   |
| <b>Switching capacity of contacts</b>                 |                   |
| with inductive load, max.                             | 0.75 A            |
| on lamp load, max.                                    | 5 W               |
| Switching frequency/contacts/at ohmic load/maximum    | 0.75 A            |
| <b>Cable length</b>                                   |                   |
| Cable length, shielded, max.                          | 500 m             |
| Cable length unshielded, max.                         | 150 m             |
| <b>Galvanic isolation</b>                             |                   |
| <b>Galvanic isolation digital outputs</b>             |                   |
| Galvanic isolation digital outputs                    | Yes ; Optocoupler |
| between the channels, in groups of                    | 4                 |
| <b>Connection method</b>                              |                   |
| Plug-in I/O terminals                                 | Yes               |
| <b>Dimensions</b>                                     |                   |
| Width   | 45 mm             |
| Height  | 80 mm             |
| Depth   | 62 mm             |
| <b>Weight</b>   |                   |

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|                 |              |
|-----------------|--------------|
| Weight, approx. | 150 g        |
| Status          | Jul 17, 2012 |