



Product data sheet
6ES7222-1HF30-0XB0

SIMATIC S7-1200, DIGITAL OUTPUT SM 1222, 8 DO, RELAY 2A
Supply voltages
Rated value

| | |
|-------------------------------------|------------------------|
| permissible range, lower limit (DC) | 5 V |
| permissible range, upper limit (DC) | 30 V |
| Short-circuit protection | 0.0000000000000000E+00 |

Current consumption

| | |
|---------------------------------|--------|
| from backplane bus DC 5 V, max. | 120 mA |
|---------------------------------|--------|

Digital inputs

| | |
|---|-------------------------|
| from load voltage L+ (without load), max. | 11 mA / relay coil used |
|---|-------------------------|

Current consumption/power loss

| | |
|------------------|-------|
| Power loss, typ. | 4.5 W |
|------------------|-------|

Connection point

| | |
|---------------------------|-----|
| required front connectors | Yes |
|---------------------------|-----|

Digital inputs

| | |
|--------------------------|---|
| Number of digital inputs | 0 |
|--------------------------|---|

Digital outputs

| | |
|---------------------------|---|
| Number of digital outputs | 8 |
| | 2 |

| | |
|--|--------------------------------|
| Short-circuit protection of the output | No ; to be provided externally |
|--|--------------------------------|

Switching capacity of the outputs

| | |
|---------------------------|-------------------|
| with resistive load, max. | 2 A |
| on lamp load, max. | 30 W DC; 200 W AC |

Output voltage

| | |
|------------------|--------------|
| Rated value (AC) | 5 to 250 VAC |
|------------------|--------------|

| | |
|------------------|-------------|
| Rated value (DC) | 5 to 30 VDC |
|------------------|-------------|

Output current

| | |
|--|-----|
| for signal "1" permissible range, max. | 2 A |
|--|-----|

Output delay with resistive load

| | |
|------------------|-------|
| "0" to "1", max. | 10 ms |
|------------------|-------|

| | |
|--|--|
| "1" to "0", max. | 10 ms |
| Aggregate current of the outputs (per group) | |
| horizontal installation | |
| up to 50 °C, max. | 10 A ; Current per common |
| Cable length | |
| cable length, shielded, max. | 500 m |
| Cable length unshielded, max. | 150 m |
| Relay outputs | |
| Number of relay outputs | 8 |
| Rated input voltage of relay L+ (DC) | 24 V |
| Number of operating cycles | mechanically 10 million, at rated load voltage 100,000 |
| Switching capacity of the contacts | |
| with inductive load, max. | 2 A |
| on lamp load, max. | 30 W DC; 200 W AC |
| with resistive load, max. | 2 A |
| Interrupts/diagnostics/status information | |
| Alarms | |
| Alarms | Yes |
| Diagnostic alarm | Yes |
| Diagnoses | |
| Diagnostic functions | Yes |
| Monitoring the voltage supply to the electronics | Yes |
| Diagnostics indication LED | |
| Status indicator digital output (green) | Yes |
| Isolation | |
| Isolation, digital outputs | |
| between the channels | Relay, dry contact |
| between the channels, in groups of | 2 |
| between the channels and the backplane bus | 1500 VAC for 1 minute (|
| Permissible potential difference | |
| between different circuits | 750 VAC for 1 minute |
| Degree of protection | |
| IP 20 | Yes |
| Standards, approvals, certificates | |
| CE symbol | Yes |

| | |
|-----------------------|--------------|
| C-TICK | Yes |
| FM approval | Yes |
| Mechanics | |
| Plastic | Yes |
| Dimensions and weight | |
| Dimensions and weight | |
| Width | 45 mm |
| Height | 100 mm |
| Depth | 75 mm |
| Weight | |
| Weight, approx. | 190 g |
| Status | Aug 31, 2009 |