

# SIEMENS

## Product data sheet

**6ES7153-4BA00-0XB0**


SIMATIC DP,  
ET 200M INTERFACE IM 153-4 PN IO HIGH  
FEATURE FOR MAX. 12 S7-300 MODULES,  
SUPPORTS FAIL SAFE MODULES,  
HART MODULES SHARED DEVICE,  
MEDIUM REDUNDANCY PROTOCOL

### General information

|                                  |       |
|----------------------------------|-------|
| Vendor identification (VendorID) | 002AH |
| Device identifier (DeviceID)     | 0302H |

### Supply voltage

|                                                           |                                                                                                                                     |
|-----------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| 24 V DC                                                   | Yes                                                                                                                                 |
| permissible range, lower limit (DC)                       | 20.4 V                                                                                                                              |
| permissible range, upper limit (DC)                       | 28.8 V                                                                                                                              |
| permissible range (ripple included), lower limit (DC)     | 18.5 V                                                                                                                              |
| permissible range (ripple included), upper limit (DC)     | 30.2 V                                                                                                                              |
| External protection for supply cables<br>(recommendation) | In a construction with grounded reference potential, a fuse is necessary for redundant interface modules<br>(Recommendation: 2.5 A) |

### Mains buffering

|                                          |      |
|------------------------------------------|------|
| Mains/voltage failure stored energy time | 5 ms |
|------------------------------------------|------|

### Input current

|                           |        |
|---------------------------|--------|
| Current consumption, max. | 600 mA |
|---------------------------|--------|

|                                                |                                                                                                       |
|------------------------------------------------|-------------------------------------------------------------------------------------------------------|
| Inrush current, typ.                           | 4 A                                                                                                   |
| $I^2t$                                         | 0.09 A <sup>2</sup> ·s                                                                                |
| Output voltage                                 |                                                                                                       |
| Rated value, 5 V DC                            | Yes                                                                                                   |
| Output current                                 |                                                                                                       |
| for backplane bus (5 V DC), max.               | 1.5 A                                                                                                 |
| Power losses                                   |                                                                                                       |
| Power loss, typ.                               | 6 W ; Typical                                                                                         |
| Address area                                   |                                                                                                       |
| Addressing volume                              |                                                                                                       |
| Outputs                                        | 192 byte                                                                                              |
| Inputs                                         | 672 byte ; Extended HART user data                                                                    |
| Hardware configuration                         |                                                                                                       |
| Number of modules per DP slave interface, max. | 12                                                                                                    |
| Communication functions                        |                                                                                                       |
| Bus protocol/transmission protocol             | PN IO                                                                                                 |
| Interrupts/diagnostics/status information      |                                                                                                       |
| Diagnostics indication LED                     |                                                                                                       |
| Connection to network LINK (green)             | Yes                                                                                                   |
| Transmit/receive RX/TX (yellow)                | Yes                                                                                                   |
| Isolation                                      |                                                                                                       |
| Isolation checked with                         | Between Profinet and 24 V supply: 1500 V AC<br>Between functional grounding and 24 V supply: 500 V DC |
| Degree and class of protection                 |                                                                                                       |
| IP20                                           | Yes                                                                                                   |
| Ambient conditions                             |                                                                                                       |
| Operating temperature                          |                                                                                                       |
| Min.                                           | 0 °C                                                                                                  |
| max.                                           | 60 °C                                                                                                 |
| Air pressure                                   |                                                                                                       |
| Operating altitude above sea level, max.       | 2000 m                                                                                                |
| Dimensions                                     |                                                                                                       |
| Width                                          | 40 mm                                                                                                 |

|                 |              |
|-----------------|--------------|
| Height          | 125 mm       |
| Depth           | 118 mm       |
| Weight          |              |
| Weight, approx. | 215 g        |
| Status          | Jul 17, 2012 |