

SIMATIC ET 200PA SMART

Product Data Sheet

6ES7650-8EK80-1AA0

Coated Thirty Two Channel Output Module

DIGITAL OUTPUT CONFIGURATION	NOMINAL LOAD VOLTAGE	RATED OUTPUT CURRENT	HORIZONTAL GROUP-CURRENT LIMIT
32 channels, isolated in groups of 8	24 V DC	0.5 A/channel; permitted 5 mA to 0.6 A	4 A up to 40 deg C; 3 A up to 60 deg C

Siemens 6ES7650-8EK80-1AA0 is the conformally coated DO 32 x DC 24 V/0.5 A digital output module for SIMATIC ET 200PA SMART. It provides distributed discrete control in compatible IM 650-based process I/O stations.

01

VERIFIED TECHNICAL DATA

Digital output configuration	32 channels, isolated in groups of 8
Nominal load voltage	24 V DC
Rated output current	0.5 A/channel; permitted 5 mA to 0.6 A
Horizontal group-current limit	4 A up to 40 deg C; 3 A up to 60 deg C
Vertical group-current limit	2 A up to 40 deg C
Isolation test voltage	500 V AC or 707 V DC
Maximum supply current	60 mA backplane; 100 mA load supply unloaded
Typical module loss	9.3 W
Off-state residual current	0.5 mA maximum
Resistive switching delay	200 µs ON; 300 µs OFF maximum

ADDITIONAL PRODUCT DATA

Load resistance range	48 ohm to 4 kohm
Maximum lamp load	5 W
Maximum switching frequencies	100 Hz resistive; 0.5 Hz inductive; 10 Hz lamp
Electronic short-circuit threshold	1 A typical
Front connector allocation	40 pins

DOCUMENTED USE SETTINGS

Chemical Production and Process Control: Chemical Manufacturing Process Control.

Water Processing and Treatment Control: Water Treatment Process Control.

Power Generation and Energy Production: Electric Power Generation Control.

SYSTEM COMPATIBILITY

Configure the coated DO 32 module within the compatible IM 650-based ET 200PA SMART station. Match the complete article and supported station configuration.

PRODUCT EVIDENCE

Siemens exact-article technical data, 6ES7650-8EK80-1AA0