SIMATIC ET 200ECO PN

Product Data Sheet

6ES7142-6BF00-0AB0

Eight-Channel PROFINET Output Block

DIGITAL OUTPUT COUNT	OUTPUT GROUPS	RATED OUTPUT SUPPLY	PERMITTED SUPPLY RANGE
8	**2 groups of 4**	**24 V DC**	**20.4 to 28.8 V DC**

Siemens 6ES7142-6BF00-0AB0 is an ET 200eco PN field output block with eight 24 V DC outputs. Four double-assigned M12 sockets carry the output channels, arranged in two groups of four. Each output is rated up to 1.3 A, and the integrated network connection supports 100 Mbit/s PROFINET communication.

01 TECHNICAL DATA

Digital output count	8
Output groups	2 groups of 4
Rated output supply	24 V DC
Permitted supply range	20.4 to 28.8 V DC
Maximum output-channel current	1.3 A
Typical electronics current	100 mA
Typical power loss	5.5 W
Output connection	4 M12 sockets; double assignment
Short-circuit response threshold	1.8 A typical
Off-state residual current maximum	1.5 mA

02 ADDITIONAL PRODUCT DATA

Resistive-load switching maximum	100 Hz
Inductive-load switching maximum	0.5 Hz
Group current at 55 degrees C	3.9 A maximum
Unshielded signal cable maximum	30 m
Ethernet transmission	100BASE-TX; 100 Mbit/s

03 PRODUCT FUNCTION

The block operates from 20.4 to 28.8 V DC and has IP67 field protection with correctly fitted connectors. Its typical electronics demand is 100 mA and typical power loss is 5.5 W. Group loading is temperature-dependent: the data sheet gives 3.9 A at up to 55 degrees C and 2.6 A at up to 60 degrees C.

04 SYSTEM COMPATIBILITY

Supply 24 V DC within the 20.4 to 28.8 V range and calculate the load groups separately. The 1.3 A per-channel capability does not permit eight channels to be loaded independently of the group limits. Observe the 3.9 A group total at 55 degrees C and the lower total at 60 degrees C.

05 REFERENCE

Siemens 6ES7142-6BF00-0AB0 official product data; applicable specification pages.

AMIKON PRODUCT SUPPORT
+86-18020776786 INFO@AMIKON.CN AMIKONG.COM