

# NE871

## ABB Ability™ System 800xA® hardware selector



NE871 is an industrial router that also acts as a firewall. The router/firewall can be utilized to segment a system into network areas and also security zones. NE871 is primarily intended to connect a client-server network to a plant network or to a DMZ (demilitarized zone).

The concept of security zoning is described in IEC 62443. In short, security zoning is a method to segment a system into zones with different security levels. A security level is complied with by implementing a combination of security countermeasures. The reason why it potentially could make sense to divide a system into security zones, which comply with different security levels, could be that the risk for different parts of the system varies. Another could be that the impact of a potential incident varies.

NE871 supports RNRP (Redundant Network Routing Protocol), which enables 800xA to have two physically separate networks, and thereby avoid a single point of failure.

### Features and benefits

- NE871 has a redundant power supply and alarm function
- Wide operating voltage range (16 VDC to 60 VDC)
- The Back end holds a casted DIN clip for stable mounting on a DIN rail
- Digital IO for monitoring
- Console port for management using CLI
- USB port for easy save and load system configuration
- 3 x RJ-45 Ethernet TX 10/100/1000 connectors
- Status LED's

General info	
Article number	3BSE080240R1
Ethernet TX 10/100	-
Ethernet TX 10/100/1000	3 ports
Ethernet SFP	-
Network redundancy	Redundant Network Routing Protocol (RNRP)
Managed	Router
Mounting	DIN
Layer	Layer 3 routing – RNRP
Firewall	Yes

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**Detailed data**

Operating Voltage	16 to 60 VDC
Rated Current	0.31 (0.48*) A @ 20 VDC 0.15 (0.21*) A @ 48 VDC
Digital I/O	1 x 4-ports detachable screw terminal
Console	1 x USB Micro-B connector

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**Environment and certification**

Degree of protection	IP40
Operating Temperature	-40 to +70 °C
Temperature Storage	-50 to +85 °C
Marine certificate	DNV
G3 compliant	Compliant
RoHS compliance	EN 50581:2012
WEEE compliance	DIRECTIVE/2012/19/EU

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**Dimensions**

Dimension (WxHxD)	134 x 100 x 122 mm
Weight	1.5 kg (3.31 lbs.)

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