

NE870

ABB Ability™ System 800xA® hardware selector



NE870 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. NE870 is primarily intended to be used to separate client/server networks and control networks, to separate different control and safety networks, and also to create RNRP tunnel areas between RNRP networks.

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.

NE870 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

- NE870 has a redundant power supply and alarm function
- Wide operating voltage range (16 VDC to 60 VDC)
- 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 10/100/1000 Ethernet TX connectors
- 8 x RJ-45 10/100 Ethernet TX connectors
- Status LED's

General info	
Article number	3BSE080239R1
Ethernet TX 10/100	8 ports
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

Detailed data

Operating Voltage	16 to 60 VDC
Rated Current	0.43 (0.60*) A @ 20 VDC 0.19 (0.25*) A @ 48 VDC
Digital I/O	1 x 4-ports detachable screw terminal
Console	1 x USB Micro-B connector

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

Dimensions

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

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