

DATA SHEET

## **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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