High performance inverter
RX2 Series

OMRON

The Driving Evolution

EtherCAT®

sysmac
always in control

Evolved Heritage

This high performance inverter offers the same usability as the previous model, which allows easy replacement.
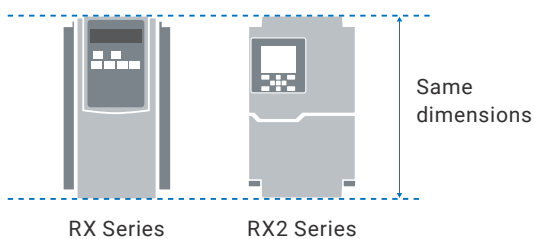
Press working

Filling control

Easy replacement

The RX2 Series with the same mounting dimension as the previous model will fit in the existing control panel or mounting location. In addition, the same setting software CX-Drive can be used for the RX2 Series. Parameter settings and programs used for the previous model can be easily converted and transferred to the RX2 Series.

Note: The depth of some models may vary.

Inside of control panel
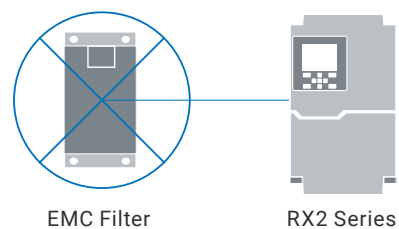
RX Series   RX2 Series

Same dimensions

Built-in EMC Filter

Built-in noise filters corresponding to the European EMC Directive IEC61800-3 2nd Environment Category C3 and UL Power Conversion Equipment/UL61800-5-1 will save external hardware and extra cost.

Built into inverter

EMC Filter   RX2 Series

Usability Evolving

The RX2 Series delivers improved usability:
more efficient, easier, and faster.

RX2 Series

Tension control

Easy setup and operation

The new full-color LCD operator, which replaced the previous 7-segment display, makes setup and operation more intuitive and easier. The parameter copy function of the operator allows you to quickly copy parameter settings to other RX2 Inverters.
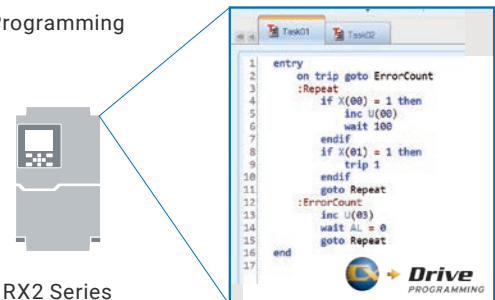
Application customized

The RX2 Inverter can perform simple sequence control programmed using support software CX-Drive.
Crane control, tension control, and other large-scale processes that require fast control speeds can be configured without a PLC, optimizing costs.

LCD operator

RUN
FW   M1   H04
FA-01
Set Speed-M(Keypad)

60.00 Hz

Menu   oFW   10:23   Option

RX2 Series

Drive Programming

```
entry
    on trip goto ErrorCount
:Repeat
    if X(00) = 1 then
        inc U(00)
        wait 100
    endif
    if X(01) = 1 then
        trip 1
    endif
    goto Repeat
:ErrorCount
    inc U(03)
    wait AL = 0
    goto Repeat
end
```

Drive PROGRAMMING

RX2 Series

In Constant Evolution

The RX2 Series continues to evolve, meeting ever-changing demands and helping improve productivity.

PM motor control

The RX2 Series can control permanent magnet motors (PM motors) as well as induction motors. Auto-tuning maximizes PM motor performance, helping save energy.
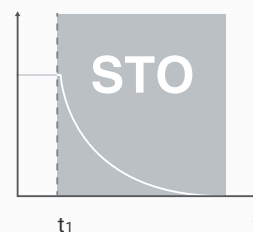
RX2 Series   AC Motor   PM Motor

Safety embedded

The RX2 Series features Safe Torque Off (STO) as standard to meet your machine safety needs.

・STO according to IEC 61800-5-2
・PLe and CAT 4 according to EN ISO 13849-1
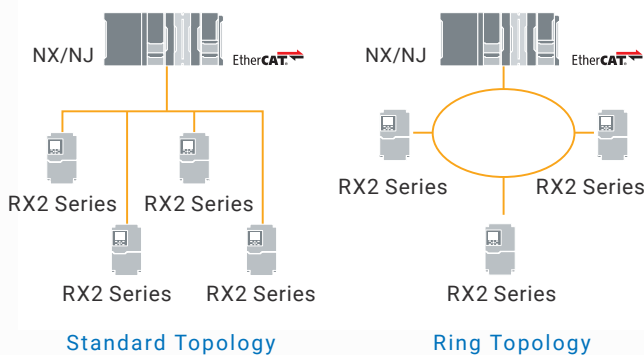・SIL3 according to IEC 61508 and EN/IEC 62061

STO

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EtherCAT®

EtherCAT®

The EtherCAT option is available. Connect the RX2 Inverters with the NX/NJ Machine Automation Controller to improve development and production productivity.
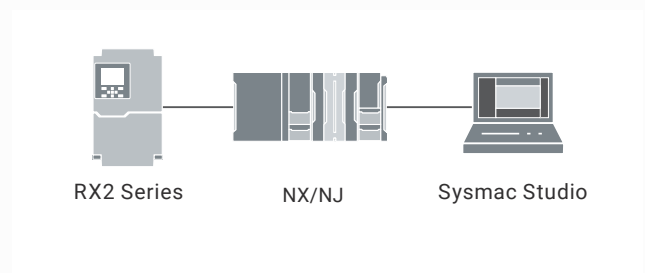
Both configurations are possible, standard and Ring topology.

NX/NJ   EtherCAT®

RX2 Series   RX2 Series

RX2 Series   RX2 Series

Standard Topology

NX/NJ   EtherCAT®

RX2 Series   RX2 Series

RX2 Series

Ring Topology

Minimize time to market

One Integrated Development Environment Software.

- ・One software to integrate
- ・Work as a team
- ・Integrated commissioning tools
- ・Sysmac troubleshooter
- ・Multiple configurations
- ・Open Standards

RX2 Series   NX/NJ   Sysmac Studio

MEMO

MEMO

Note: Do not use this document to operate the Unit.

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