

System 1[®] Version 6.X RulePaks

Patents: 5,905,989; 6,421,571



Description

RulePak™ software is a system extender to System 1[®] software. A RulePak is a pre-configured set of rules designed specifically to perform real-time data validation, real-time calculations and analysis, and real-time detection of specific events and malfunctions. RulePaks are developed using domain knowledge of experts from within GE including Bently Nevada and other GE businesses.

A RulePak is imported into the System 1 Optimization and Diagnostics Platform, via the Decision Support Manager. Once imported, you can apply the imported RulePak on a single problem machine, multiple machines or machine trains across your business. Generic asset RulePaks are available as well as specific asset RulePaks for a particular asset type. RulePaks typically provide mechanical, operation, and instrumentation analysis, as well as provide condition-based maintenance capabilities. The outputs from these RulePaks can drive highly configurable user notifications with Actionable Information[®].

RulePaks are imported and applied in combination with various System 1 Application Packages to provide a complete diagnostic package. Although RulePaks are intended to give you pre-configured, model-based logic and equations with usable outputs, you may want to combine some of your knowledge with outputs from RulePaks to make custom rules using Decision Support Studio. Also, the outputs from RulePaks as well as custom rules can drive notifications with default advisories that are user-configurable.

RulePaks provide the following benefits:

- Maximize plant availability
- Optimize plant maintainability
- Mitigate Operational Risks
- Rapid application of expertise from outside your business
- Asset life extension

RulePaks have the following capabilities:

- Configurable advisories
- Robust IT security
- Easy plug-in to System 1 platform
- RulePaks can be deployed across your business
- Can drive user notifications with Actionable Information[®]



Specifications

Operating System

MS Windows® 2000 Professional (Snapshot Only)

MS Windows® 2000 Server Service Pack 4

MS Windows® XP (Snapshot Only)

MS Windows® Server 2003

Ordering Information

Step 1

3061/00 RulePaks System

3061/00–AXX–BXX

A Order Type

0 1 New Order (CD, Key, Binder)

9 8 Replacement Licenses (Key)

9 9 Update (CD)

B Option Type

Note: Enter the RulePak options. See Step 3 for the available RulePaks.

0 0 None

0 1 Option 1

0 2 Option 2

0 3 Option 3

0 4 Option 4

0 5 Option 5

0 6 Option 6

0 7 Option 7

0 8 Option 8

0 9 Option 9

1 0 Option 10

Step 2 Software (3002/01)

Note: Option A is for information only and is the value chosen under Step 1.

RulePak™ CD & License Media

3061/01-AXX-BXX-CXX

A Order Type

0 1 New Order (CD, Key, Binder)

9 8 Replacement Licenses (Key)

9 9 Update (CD)

B License Protection Type

0 0 None

0 1 USB

0 2 Floppy

Step 3 See the following list of catalog numbers and their corresponding RulePaks. These options must be ordered via the 3061/00 catalog number. They **cannot** be ordered via their own internal catalog numbers.

Steam Turbine RulePaks

3061/02–AXX–BXX

A Steam Turbine Power Generation

0 0 None

0 1 Steam Turbine Power Gen (2 Brg, 1 rotor)

B Mechanical Drive

0 0 None

0 1 Steam Turbine Mechanical Drive (2 Brg, 1 rotor)

Industrial Gas Turbine RulePaks

3061/03–AXX–BXX

A Power Generation

0 0 None

0 1 Industrial Gas Turbine Power Gen (2 Brg, 1 rotor)

0 2 Industrial Gas Turbine Power Gen (4 Brg, 2 rotor)

B Mechanical Drive

0 0 None

0 1 Industrial Gas Turbine Mechanical Drive (2 Brg, 1 rotor)

0 2 Industrial Gas Turbine Mechanical Drive (4 Brg, 2 rotor)

Aeroderivative Gas Turbine RulePaks

3061/04–AXX

A Power Generation

0 1 Aeroderivative Gas Turbine

Electric Motor Mechanical RulePaks

3061/14–AXX

A Motors

0 1 Small (<100hp) Electric Motor FFB (2 Brg, 1 rotor)

0 2 Medium (<1000hp) Electric Motor FFB (2 Brg, 1 rotor)

0 3 Large (>1000hp) Electric Motor FFB (2 Brg, 1 rotor)

Electrical Equipment RulePaks

3061/15–AXX

- A** Induction Electric Motors
 - 0 1 Induction Electric Motor REB - PQM
 - 0 2 Induction Electric Motor REB – 269UR
 - 0 3 Induction Electric Motor REB – 369UR
 - 0 4 Induction Electric Motor REB – 469UR
 - 0 5 Induction Electric Motor REB – M60UR

- 5 1 Induction Electric Motor FFB - PQM
- 5 2 Induction Electric Motor FFB – 269UR
- 5 3 Induction Electric Motor FFB – 369UR
- 5 4 Induction Electric Motor FFB – 469UR
- 5 5 Induction Electric Motor FFB – M60UR

Power Turbine RulePaks

3061/17–AXX

- A** Type
 - 0 2 Power Turbine FFB (2 Brg, 1 rotor)

Generator RulePaks

3061/18–AXX

- A** Type
 - 0 1 Generator (2 Brg, 1 rotor)

Rotating Exciter Mechanical RulePaks

3061/19–AXX

- A** Type
 - 0 2 Simply Supported Exciter

Rotating Compressor RulePaks

3061/20–AXX-BXX-CXX

- A** Centrifugal Type
 - 0 0 None
 - 0 1 Centrifugal Compressor (2 Brg, 1 rotor)
- B** Axial
 - 0 0 None
 - 0 1 Axial Compressor (2 Brg, 1 rotor)

- C** Screw

0 0 None

0 1 Screw Compressor

Integral-Gear Compressor RulePaks

3061/21–AXX

- A** Type
 - 0 1 Integral-Gear Compressor

Fan / Blower RulePaks

3061/23–AXX-BXX-CXX

- A** Centrifugal Type
 - 0 0 None
 - 0 1 Centrifugal Fan / Blower (2 Brg, 1 rotor)
- B** Axial
 - 0 0 None
 - 0 1 Axial Fan / Blower (2 Brg, 1 rotor)*
- C** Radial
 - 0 0 None
 - 0 1 Radial Fan / Blower (2 Brg, 1 rotor)

*applies to fixed, variable, and adjustable pitch machines

Reciprocating Compressor Cylinder RulePaks

3061/26-AA

- A** Type
 - 0 1 Cylinder Trim/Hydrogen
 - 0 2 Cylinder Trim/LDPE
 - 0 3 Cylinder Trim/Flare Gas
 - 0 4 Cylinder Trim/Natural Gas

Centrifugal Pump RulePaks

3061/30–AXX

- A** Type
 - 0 1 Centrifugal Pump - REB
 - 0 2 Centrifugal Pump - FFB (2 Brg, 1 rotor)

Canned Motor Pump RulePaks

3061/33–AXX

- A** Type

0 1 Canned Motor Pump

Reactor Coolant Pump RulePaks

3061/35--AXX

A Type

0 1 Reactor Coolant Pump

Gearbox RulePaks

3061/50--AXX

A Gearbox

0 1 Gearbox (speed increasing, 4 Brg, 2 rotor)

0 2 Gearbox (speed decreasing, 4 Brg, 2 rotor)

Wind Turbine RulePaks

3061/56--AXX

A Type

0 1 1.5 MW Wind Turbine/Gen Gearbox

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