

System 1[®] Version 6.X (or Higher) RulePaks

System 1[®]

Optimization and
Diagnostic Platform

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, and Partners of GE.

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[®]



imagination at work

RulePak Specifications and Ordering Information
Part Number 175487-01
Rev. A (06/09)

Specifications

System 1® Version

These RulePaks are compatible for use with System 1® version 6.0, or a higher version. The product CD contains RulePaks developed for specific versions of System 1. Services/Customers should ensure that the highest RulePak version of compatibility be installed, or upgraded, according to the customer's version of System 1.

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 (3061/01)

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

RulePak™ CD & License Media

3061/01-AXX-BXX

- 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

Hydro Turbine RulePaks**3061/16-AXX-BXX-CXX-DXX**

- A Partial Discharge
 - 0 0 None
 - 0 1 Partial Discharged
- B Air Gap
 - 0 0 None
 - 0 1 Air Gap
- C Process
 - 0 0 None
 - 0 1 Process
- D Vibration
 - 0 0 None
 - 0 1 Vibration

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

Dry Gas Seal RulePaks**3061/22-AXX**

- A Type
 - 0 1 Tandem
 - 0 2 Tandem w/Intermediate Labyrinth
 - 0 3 Double (not available)
 - 0 4 Single (not available)

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-AXX**

- A Type
 - 0 1 Hydrogen
 - 0 2 LDPE
 - 0 3 Flare Gas
 - 0 4 Natural Gas

Reciprocating Compressor Impact/Impulse RulePaks**3061/27-AXX**

- A Type
- 0 1 Hydrogen
 - 0 2 LDPE
 - 0 3 Flare Gas
 - 0 4 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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1631 Bently Parkway South, Minden, Nevada USA 89423
Phone: 1-775.782.3611 Fax: 1-775.215.2873
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