APTER
POWER

149844-01

RK4 Rotor Kit Motor Speed Control Device

PRODUCT TECHNICAL REFERENCE

Bently Nevada 149844-01 is the motor speed control device used with the RK4 Model Rotor Kit. It powers the rotor-kit motor and Proximitor assembly while controlling speed for machinery-behavior demonstrations and diagnostic training.

OFFICIAL SOURCE

RK 4 Model Rotor Kit Datasheet | 141592 Rev. P

Verified technical profile

RK4 Rotor Kit Motor Speed Control Device

System	RK4 Model Rotor Kit
Motor type	Direct current
Input power	95-125 Vac or 190-250 Vac, single phase
Frequency	50-60 Hz
Maximum current	3.0 A
Fuse	250 V, 3 A slow-blow
Remote speed input	+/-5 V
Maximum speed	10000 rpm typical
Maximum ramp rate	+/-15000 rpm/min typical
Direction	Clockwise / counter-clockwise
Environment	Indoor, 25 +/-10 deg C
Humidity	95% RH non-condensing

Dimensions and weight are intentionally excluded from the product fields for this batch.

System role and engineering boundaries

Bently Nevada 149844-01 is the motor speed control device used with the RK4 Model Rotor Kit. It powers the rotor-kit motor and Proximitor assembly while controlling speed for machinery-behavior demonstrations and diagnostic training.

1. Regulates the RK4 direct-current motor under changing mechanical load
2. Provides clockwise, counter-clockwise and adjustable slow-roll operation
3. Accepts a remote speed command for controlled rotor demonstrations
4. Supplies the associated Proximitor assembly used to observe rotor behavior

ENGINEERING NOTE

Connect 149844-01 only to the documented RK4 motor and Proximitor assembly after confirming the selected mains voltage and fuse. Keep all safety covers installed, establish slow-roll operation first, then verify direction, tachometer indication and any remote +/-5 V command under controlled conditions.

Industrial application matrix

Four source-supported operating contexts for this exact product.

Rotor-dynamics training

Controls repeatable speed changes while vibration and orbit behavior are observed.

Unbalance and misalignment demonstrations

Provides a stable speed platform for introducing and measuring common rotor conditions.

Keyphasor and proximity-signal exercises

Supports the RK4 probes and Proximitor assembly used for phase and displacement observation.

Oil-whirl and whip studies

Drives the optional fluid-bearing configuration used to demonstrate fluid-induced instability.

Related-series navigation

Eight verified Apter Power product pages, kept separate from the manufacturer source record.

RELATED APTER POWER SERIES PAGES	
01	330909-00-60-10-01-00 armored NSv probe
02	330180-12-05 Proximitor sensor
03	190501-10-00-00 Velomitor CT
04	9200-06-01-11-04 Seismoprobe transducer
05	330780-90-05 11 mm Proximitor sensor
06	3500/50 tachometer module
07	3500/42M 176449-02 seismic monitor
08	3500/40M 176449-01 proximity monitor

Navigation links only - not manufacturer evidence for technical parameters.

SOURCE RECORD

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