

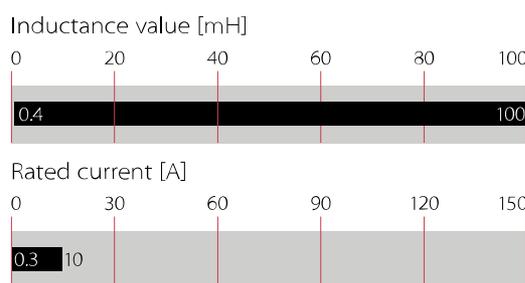
Current-compensated Chokes



- Rated currents from 0.3 to 10 A
- DC to 400 Hz frequency
- 100 kHz to 3 MHz common-mode resonance frequency
- Dual-choke configurations
- Multiple PCB-mounting options



Performance indicators



Approvals & Compliances



RN chokes are attenuating common-mode or asymmetric (P/N > E) interference signals, by being connected in series with the phase and neutral lines of an AC powerline input. Symmetrical components of the noise are also attenuated by the leakage inductance (stray inductance) of the windings. These chokes are typically used in conjunction with suppression capacitors.

Features and Benefits

- High saturation resistance and excellent thermal behavior
- Through hole pin connections
- Dual-choke configuration
- Small compact design
- Multiple housing options
- Custom-specific versions are available on request
- Higher temperature versions
- Fully potted design usable for ruggedized applications

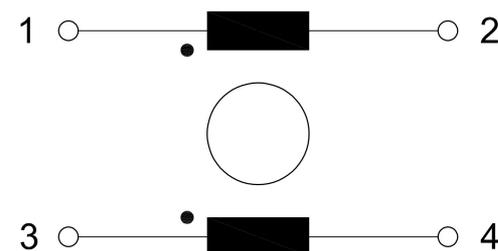
Family Technical Specifications

Nominal operating voltage	300 VAC
Rated currents	0.3 to 10 A @ 40°C
Operating frequency	DC to 400 Hz
Rated inductance	0.4 to 100 mH
Stray inductance	Typically 1% of L _n
Inductance reduction (DC bias with IN)	Less than 10% (25°C)
Surge current @ 10 msec	20 x nominal current @ 25°C
Temperature range (operation and storage)	-40°C to 100°C (40/100/56) acc. IEC 60068-1
Flammability corresponding to	Housing UL 94V-0 Potting compound UL 94V-0 Ringcore coating UL 94V-0
Design corresponding to	UL 1283, IEC/EN 60938-1
MTBF (Mil-HB-217F)	>5,000,000 h @ 40°C/230 V
High potential test voltage winding-to-winding @ 25°C	1500 VAC, 60 sec, guaranteed 1500 VAC, 2 sec, factory test
Winding-to-housing @ 25°C	Winding-to-housing @ 25°C

Typical Applications

- Switch-mode power applications
- Suppressing common-mode interference levels
- EMI input filters
- For suppression-equipment with no earth connection
- Phase-angle control circuits in combination with saturating chokes

Typical electrical schematic



Articles

Article	Rated Current @ambient (A)	Inductance		Input/Output connections (Nm)		Dist. stock	Read More
		L1		Input terminal			
RN116-0.5-02-47M	0.5	47		02 - PCB Pin			
RN116-0.5-02-39M	0.5	39		02 - PCB Pin			
RN116-0.5-02-27M	0.5	27		02 - PCB Pin			
RN216-0.5-02-47M	0.5	47		02 - PCB Pin			
RN216-0.5-02-39M	0.5	39		02 - PCB Pin			
RN216-0.5-02-27M	0.5	27		02 - PCB Pin			
RN112-0.5-02-18M	0.5	18		02 - PCB Pin			
RN212-0.5-02-18M	0.5	18		02 - PCB Pin			
RN112-0.5-02-15M	0.5	15		02 - PCB Pin			
RN212-0.5-02-15M	0.5	15		02 - PCB Pin			
RN112-0.5-02-27M	0.5	27		02 - PCB Pin			
RN114-0.5-02-39M	0.5	39		02 - PCB Pin			
RN122-0.5-02-56M	0.5	56		02 - PCB Pin			
RN142-0.5-02-82M	0.5	82		02 - PCB Pin			
RN143-0.5-02-100M	0.5	100		02 - PCB Pin			
RN212-0.5-02-27M	0.5	27		02 - PCB Pin			
RN214-0.5-02-39M	0.5	39		02 - PCB Pin			
RN214-0.5-02-56M	0.5	56		02 - PCB Pin			
RN222-0.5-02-56M	0.5	56		02 - PCB Pin			
RN242-0.5-02-82M	0.5	82		02 - PCB Pin			
RN112-0.4-02-39M	0.4	39		02 - PCB Pin			
RN112-0.4-02-27M	0.4	27		02 - PCB Pin			
RN212-0.4-02-39M	0.4	39		02 - PCB Pin			
RN212-0.4-02-27M	0.4	27		02 - PCB Pin			
RN218-0.4-02-100M	0.4	100		02 - PCB Pin			

Articles

	Article	Rated Current @ambient (A)	Inductance		Input/Output connections (Nm)		Dist. stock	Read More
			L1		Input terminal			
	RN204-0.3-02-12M	0.3	12		02 - PCB Pin			
	RN204-0.3-02-22M	0.3	22		02 - PCB Pin			
	RN102-0.3-02-22M	0.3	22		02 - PCB Pin			
	RN202-0.3-02-22M	0.3	22		02 - PCB Pin			
	RN102-0.3-02-12M	0.3	12		02 - PCB Pin			
	RN114-0.3-02-47M	0.3	47		02 - PCB Pin			
	RN202-0.3-02-12M	0.3	12		02 - PCB Pin			
	RN214-0.3-02-47M	0.3	47		02 - PCB Pin			
	RN152-10-02-1M8	10	1.8		02 - PCB Pin			
	RN152-8-02-2M7	8	2.7		02 - PCB Pin			
	RN142-6-02-1M8	6	1.8		02 - PCB Pin			
	RN143-6-02-1M8	6	1.8		02 - PCB Pin			
	RN152-6-02-3M9	6	3.9		02 - PCB Pin			
	RN242-6-02-1M8	6	1.8		02 - PCB Pin			
	RN212-4-02-0M7	4	0.7		02 - PCB Pin			
	RN112-4-02-0M7	4	0.7		02 - PCB Pin			
	RN114-4-02-1M5	4	1.5		02 - PCB Pin			
	RN122-4-02-3M3	4	3.3		02 - PCB Pin			
	RN122-4-02-1M8	4	1.8		02 - PCB Pin			
	RN142-4-02-3M3	4	3.3		02 - PCB Pin			
	RN143-4-02-3M9	4	3.9		02 - PCB Pin			
	RN152-4-02-6M8	4	6.8		02 - PCB Pin			
	RN214-4-02-1M5	4	1.5		02 - PCB Pin			
	RN222-4-02-3M3	4	3.3		02 - PCB Pin			
	RN232-4-02-3M3	4	3.3		02 - PCB Pin			

Articles

Article	Rated Current @ambient (A)	Inductance		Input/Output connections (Nm)		Dist. stock	Read More
		L1		Input terminal			
RN242-4-02-3M3	4	3.3		02 - PCB Pin			
RN112-3.6-02-0M4	3.6	0.4		02 - PCB Pin			
RN212-3.6-02-0M4	3.6	0.4		02 - PCB Pin			
RN114-3-02-2M0	3	2		02 - PCB Pin			
RN122-3-02-4M5	3	4.5		02 - PCB Pin			
RN214-3-02-2M0	3	2		02 - PCB Pin			
RN222-3-02-4M5	3	4.5		02 - PCB Pin			
RN112-2.6-02-0M4	2.6	0.4		02 - PCB Pin			
RN212-2.6-02-0M4	2.6	0.4		02 - PCB Pin			
RN114-2.5-02-3M3	2.5	3.3		02 - PCB Pin			
RN122-2.5-02-5M6	2.5	5.6		02 - PCB Pin			
RN214-2.5-02-3M3	2.5	3.3		02 - PCB Pin			
RN222-2.5-02-5M6	2.5	5.6		02 - PCB Pin			
RN232-2.5-02-5M6	2.5	5.6		02 - PCB Pin			
RN218-2.2-02-3M3	2.2	3.3		02 - PCB Pin			
RN116-2-02-3M3	2	3.3		02 - PCB Pin			
RN116-2-02-2M2	2	2.2		02 - PCB Pin			
RN216-2-02-3M3	2	3.3		02 - PCB Pin			
RN216-2-02-2M2	2	2.2		02 - PCB Pin			
RN204-2-02-1M1	2	1.1		02 - PCB Pin			
RN112-2-02-1M0	2	1		02 - PCB Pin			
RN212-2-02-1M0	2	1		02 - PCB Pin			
RN102-2-02-1M1	2	1.1		02 - PCB Pin			
RN112-2-02-1M8	2	1.8		02 - PCB Pin			
RN114-2-02-4M2	2	4.2		02 - PCB Pin			

Articles

Article	Rated Current @ambient (A)	Inductance L1	Input/Output connections (Nm)		Dist. stock	Read More
			Input terminal			
RN122-2-02-6M8	2	6.8	02 - PCB Pin			
RN122-2-02-5M0	2	5	02 - PCB Pin			
RN142-2-02-6M8	2	6.8	02 - PCB Pin			
RN143-2-02-10M	2	10	02 - PCB Pin			
RN152-2-02-18M	2	18	02 - PCB Pin			
RN202-2-02-1M1	2	1.1	02 - PCB Pin			
RN212-2-02-1M8	2	1.8	02 - PCB Pin			
RN214-2-02-4M2	2	4.2	02 - PCB Pin			
RN214-2-02-2M2	2	2.2	02 - PCB Pin			
RN222-2-02-6M8	2	6.8	02 - PCB Pin			
RN242-2-02-6M8	2	6.8	02 - PCB Pin			
RN116-1.7-02-4M0	1.7	4	02 - PCB Pin			
RN216-1.7-02-4M0	1.7	4	02 - PCB Pin			
RN218-1.7-02-6M8	1.7	6.8	02 - PCB Pin			
RN232-1.6-02-10M	1.6	10	02 - PCB Pin			
RN116-1.5-02-10M	1.5	10	02 - PCB Pin			
RN216-1.5-02-10M	1.5	10	02 - PCB Pin			
RN204-1.5-02-1M6	1.5	1.6	02 - PCB Pin			
RN102-1.5-02-1M6	1.5	1.6	02 - PCB Pin			
RN112-1.5-02-3M3	1.5	3.3	02 - PCB Pin			
RN114-1.5-02-6M8	1.5	6.8	02 - PCB Pin			
RN122-1.5-02-10M	1.5	10	02 - PCB Pin			
RN202-1.5-02-1M6	1.5	1.6	02 - PCB Pin			
RN212-1.5-02-3M3	1.5	3.3	02 - PCB Pin			
RN214-1.5-02-6M8	1.5	6.8	02 - PCB Pin			

Articles

Article	Rated Current @ambient (A)	Inductance		Input/Output connections (Nm)		Dist. stock	Read More
		L1		Input terminal			
RN222-1.5-02-10M	1.5		10	02 - PCB Pin			
RN142-1.4-02-27M	1.4		27	02 - PCB Pin			
RN242-1.4-02-27M	1.4		27	02 - PCB Pin			
RN218-1.4-02-10M	1.4		10	02 - PCB Pin			
RN116-1.3-02-6M8	1.3		6.8	02 - PCB Pin			
RN216-1.3-02-6M8	1.3		6.8	02 - PCB Pin			
RN112-1.2-02-6M8	1.2		6.8	02 - PCB Pin			
RN114-1.2-02-10M	1.2		10	02 - PCB Pin			
RN212-1.2-02-6M8	1.2		6.8	02 - PCB Pin			
RN214-1.2-02-10M	1.2		10	02 - PCB Pin			
RN218-1.1-02-15M	1.1		15	02 - PCB Pin			
RN116-1-02-15M	1		15	02 - PCB Pin			
RN116-1-02-10M	1		10	02 - PCB Pin			
RN216-1-02-15M	1		15	02 - PCB Pin			
RN216-1-02-10M	1		10	02 - PCB Pin			
RN204-1-02-3M0	1		3	02 - PCB Pin			
RN102-1-02-3M0	1		3	02 - PCB Pin			
RN114-1-02-15M	1		15	02 - PCB Pin			
RN122-1-02-18M	1		18	02 - PCB Pin			
RN122-1-02-10M	1		10	02 - PCB Pin			
RN142-1-02-33M	1		33	02 - PCB Pin			
RN143-1-02-47M	1		47	02 - PCB Pin			
RN152-1-02-68M	1		68	02 - PCB Pin			
RN202-1-02-3M0	1		3	02 - PCB Pin			
RN214-1-02-15M	1		15	02 - PCB Pin			

Articles

Article	Rated Current @ambient (A)	Inductance L1	Input/Output connections (Nm)		Dist. stock	Read More
			Input terminal			
RN222-1-02-18M	1	18	02 - PCB Pin			
RN222-1-02-33M	1	33	02 - PCB Pin			
RN232-1-02-18M	1	18	02 - PCB Pin			
RN242-1-02-33M	1	33	02 - PCB Pin			
RN218-1-02-22M	1	22	02 - PCB Pin			
RN218-0.9-02-27M	0.9	27	02 - PCB Pin			
RN116-0.8-02-27M	0.8	27	02 - PCB Pin			
RN216-0.8-02-27M	0.8	27	02 - PCB Pin			
RN112-0.8-02-10M	0.8	10	02 - PCB Pin			
RN114-0.8-02-27M	0.8	27	02 - PCB Pin			
RN122-0.8-02-39M	0.8	39	02 - PCB Pin			
RN212-0.8-02-10M	0.8	10	02 - PCB Pin			
RN214-0.8-02-27M	0.8	27	02 - PCB Pin			
RN222-0.8-02-39M	0.8	39	02 - PCB Pin			
RN218-0.7-02-39M	0.7	39	02 - PCB Pin			
RN204-0.6-02-4M4	0.6	4.4	02 - PCB Pin			
RN102-0.6-02-4M4	0.6	4.4	02 - PCB Pin			
RN112-0.6-02-15M	0.6	15	02 - PCB Pin			
RN122-0.6-02-47M	0.6	47	02 - PCB Pin			
RN202-0.6-02-4M4	0.6	4.4	02 - PCB Pin			
RN212-0.6-02-15M	0.6	15	02 - PCB Pin			
RN222-0.6-02-47M	0.6	47	02 - PCB Pin			
RN232-0.6-02-47M	0.6	47	02 - PCB Pin			
RN218-0.6-02-47M	0.6	47	02 - PCB Pin			

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