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Written-Pole[®] Roesel Motor-Generator (RMG[®])

***Line Isolation, Power Quality
and
Uninterruptible Power System –
Without Batteries***



APPLICATIONS: The RMG is designed to supply **continuous clean power** to sensitive electrical loads in commercial and industrial installations. Loads such as computers, security systems, machinery, medical devices, communications, controls, instruments, and lights are provided **the ultimate isolation and continuous protection** from spikes, dips, and other variations in the utility power. The RMG also prevents load harmonics from feeding back into the building wires and utility system through complete electrical isolation.

Precise Uninterruptible Power is generated by the patented Written-Pole generator even when utility power blinks out for several seconds during bad weather or utility switching. These "blinkouts", voltage surges and dips cause more than 99% of power problems. The rugged reliable rotary energy in the RMG is designed to ride through the longest utility "blinkouts" or dips and absorb even the worst power surges. Some cases need continuous power for the few times when the "blinkout" becomes a blackout. The RMG can supply 12 seconds of ride-through at full load, which is enough time to start a stand-by engine-generator with No-Break in power to the sensitive load. No batteries are required for uninterruptible power. The RMG is completely packaged with electrical contactors, automatic bypass system, electronic controls, internal computer and safety devices.

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Roesel Motor-Generator (RMG®)

Specifications				
	35 kVA	40 kVA	50 kVA	60 kVA
PHYSICAL				
Dimensions in Inches (WxHxD)	60 W x 63 H x 50 D	60 W x 63 H x 50 D	69 W x 64 H x 50 D	69 W x 47 H x 48 D
Weight	7895 lbs.	10,664 lbs.	11,665 lbs.	13,520 lbs.
Shipping Weight (approx.)	8195 lbs.	10,964 lbs.	12,000 lbs.	13,820 lbs.
Minimum Cooling Air Flow	2000 CFM	3500 CFM	4500 CFM	5,250 CFM
Maximum Heat Rejection	18,200 Btu/Hr	19,270 Btu/Hr	24,000 Btu/Hr	29,000 Btu/Hr
Noise Level, Measured @ 3 feet	75 dBA	75 dBA	75 dBA	75 dBA
Ambient Temperature Range	4°C to 40°C	4°C to 40°C	4°C to 40°C	4°C to 40°C
Maximum Relative Humidity, Non-Condensing	<100%	<100%	<100%	<100%
Storage	-40° to 60°C	-40° to 60°C	-40° to 60°C	-40° to 60°C

INPUT				
Voltage AC (+10% - 15%) 3-Phase, 4 wire	208	208 / 480	208 / 480	480
Frequency	60 Hz (Nom) 58.5 Hz (Min)	60 Hz (Nom) 58.5 Hz (Min)	60 Hz (Nom) 58.5 Hz (Min)	60 Hz (Nom) 58.5 Hz (Min)
Current: @ Rated Voltage	-	-	-	-
Full Load	100A	105A / 45A	130A / 56A	67A
Starting Inrush	250A	263A / 113A	320A / 140A	168A
Power Factor, Full Load	0.95 (Min)	0.95 (Min)	0.95 (Min)	0.95 (Min)

OUTPUT				
kW	28	32	40	48
Load Power Factor	0.9 Leading to 0.8 Lagging	0.9 Leading to 0.8 Lagging	0.9 Leading to 0.8 Lagging	0.9 Leading to 0.8 Lagging
Voltage AC	208 (120)	208 (120) / 480 (277)	208 (120) 480 (277)	480 (277)
Frequency (synchronous to input)	60 Hz	60 Hz	60 Hz	60 Hz
Current: PF = 1.0 PF = 0.8	78A 98A	89A / 38A 111A / 48A	111A / 48A 139A / 60A	58A 72A
VOLTAGE REGULATION:				
Steady-State	± 5%	± 5%	± 5%	± 5%
Transient (0-50 msec) < 50% load step	-15% to +10%	-15% to +10%	-15% to +10%	-15% to +10%
Transient (50 msec – 500 msec) < 50% load step	± 8%	± 8%	± 8%	± 8%
Harmonic Content (Linear Load)	≤ 3%	≤ 3%	≤ 3%	≤ 3%

LOAD CONDITION	Full	Full	Full	Full
Ride-through Time	12 Seconds	12 Seconds	12 Seconds	12 Seconds
Efficiency %	84	85	85	85

Specifications are subject to change without notice.