

SIERRA

Sierra Compressors. The hightest level of reliability.

► Wide DC range

- ► Variable speed
- ► High efficiency
- ► Compactness

KEY FEATURES AND BENEFITS

► Reduce energy consumption: High efficiency motors with variable speed control.

► Compact size:

Robust rotary and lightweight design ideally suited for mobile and transport applications.

► Suitable options:

Dual compressor configurations for increased capacity.

► Extensive application range:

Large voltage ranges from 12VDC to 600VDC, and compressors available in multiple refrigerants including A2L.



APPLICATIONS

Some of these applications are listed below:

- ► Heavy Duty Trucking
- ► Automotive
- ► Mass Transit
- ► Medical / Scientific
- ► Military
- ► Electronics



















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COMPRESSOR INFORMATION

Capacity range*:

► LBP: from 130 - 1802 Watts ► HBP: from 465 - 5772 Watts

Refrigerant:

► R134a, R404A, R1234yf, R290

Application(s):

- ► LBP temperature:
 - -40°C to -12°C
- ► Air conditioning temperature:
 - -23.3°C to +12.7°C

*LOW / FREEZER: performance rated at -23.3°C evap., 49°C cond., 27.4°C superheat, 0°C subcooling, 35°C ambient.

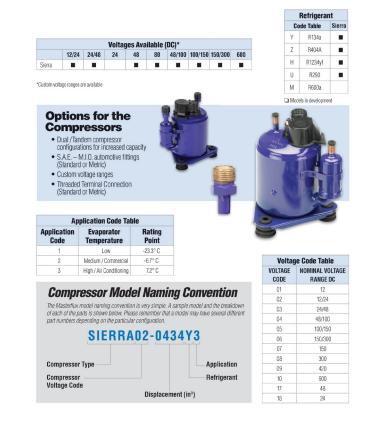
HIGH / AIR CONDITIONING: performance rated at 7.2°C evap., 54.4°C cond., 11.1°C superheat, 8.3°C subcooling, 35°C ambient.

CONTROLLER INFORMATION

Voltage range: 12-600 VDC, 50/60 Hz.

Key features:

- ► Start and Run the compressor
- ► Locked-Rotor protection
- ► Thermal protection
- ► Speed control
- ► Power and current control
- ► Provide diagnostic information
- ► Low and high voltage shutdown
- ► Additional features (software, bus connection)



DIMENSIONS

		PRESSOR ACEMENT	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)
	0434 (7.1cc)	w/o Fittings	130	154	154	152	9.6 - 9.8	8.0 - 8.2
		w/ Fittings	130	154	177	168		
	0716	w/o Fittings	130	154	160	180	12.8 - 12.9	8.0 - 8.2
	(11.7cc)	w/ Fittings	130	154	184	196	12.0 12.0	0.0 0.2
	0982	w/o Fittings	130	154	154	177	12.8 - 12.9	8.0 - 8.2
	(16.1cc)	w/ Fittings	130	154	177	193	12.0 - 12.9	0.0 - 0.2

