

# **Kulthorn, compressor, Kulthorn compressor, c- qn76l6f, c-qn76l6f-1, 1/10 Hp, 1Ph, Serie C-q, R134a, 76 watt, Low back pressure, 200-220V/50hz, 220v/60hz, Compressor modifier**

written by Lilianne | 7 January 2021

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## Compressor Motor Protectors

Each compressor incorporates a motor protection device or system. Generally, the larger the compressor, the more sophisticated the motor protector.

It is essential that an electric motor is protected against conditions that could otherwise result in damage to the motor or to the electrical supply system. For this reason, every Kulthorn compressor is supplied with a motor protector, sometimes referred to as an overload. The more expensive the compressor, the greater is the economic justification for specifying a motor protector that has the ability to protect over a wider range of conditions.

### 1. External Motor Protectors

A smaller compressor (such as an AZ, AE or WJ) is fitted

with an external motor protector. Most commonly, this is a compact, cylindrical device that contains a snapaction bimetallic disc. The protector is mounted in contact with the surface of the compressor housing, inside the terminal guard.

The compressor current passes through the bimetallic disc. The resistance of this disc causes the disc temperature to increase as the motor current increases. There is usually a small heater, located under the disc and connected in series with the disc itself. This heater further raises the temperature of the disc. There is also the impact of the compressor shell temperature, and a hot compressor will further increase the disc temperature. The temperature of the disc is thus influenced by the combined effects of –

- the compressor motor current
- the compressor shell temperature

When the bimetallic disc reaches a predetermined temperature (often either 105°C or 120°C) the disc will snap open, and power supply to the compressor will be interrupted.

The compressor will cool, and at a reduced disc temperature the protector will reset and the compressor will restart, or attempt to restart. If the abnormal condition that caused the protector to trip in the first place still exists, the compressor is likely to continue to cycle on the overload until that condition is corrected.

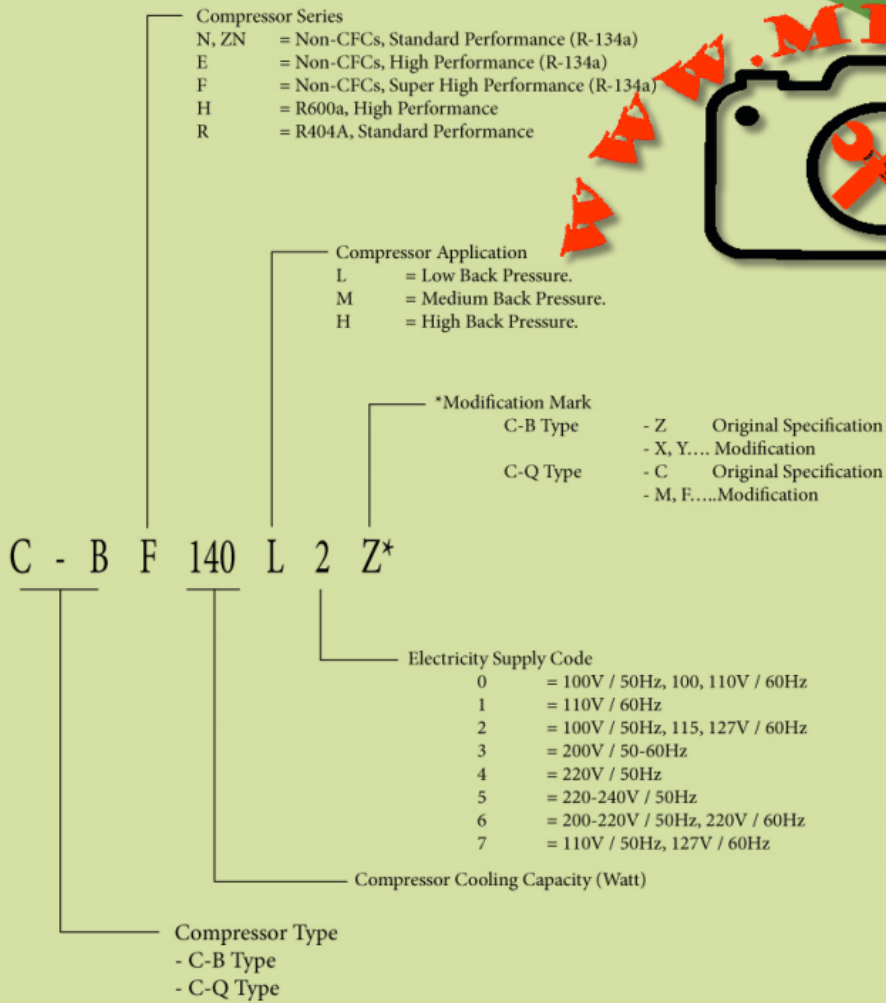
There are two situations where a motor protector is expected to operate.

2. When the compressor is running under extreme conditions.
3. When the compressor is in a locked rotor condition. This is a situation where the compressor cannot start because the voltage is too low,

the system pressures are outside the range for which the compressor is approved, there is internal damage to the compressor, or there is some other reason why the compressor is incapable of starting



## Model Number System



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# KULTHORN

## COMPRESSOR

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Name: Kulthorn Premier Company Limited (KPC)  
Established: December 1982  
Registered Capital: Baht 1,125 Million  
Address: 446/3 Moo 9 Chachoengsao – Nakornratchasima Road,  
Kabinburi Industrial Estate, Nongki, Kabinburi, Prachinburi 325100, Thailand  
Telephone: (037) 204835, 455516  
Fax: (037) 455525, 204844  
E-mail: sales\_kpc@kulthorn.com  
kamjorn@kulthorn.com

Employees: 900 persons  
Land area: 91 rai (145,600 m<sup>2</sup>)  
Building of area: 41,500 m<sup>2</sup>  
Business Products: Hermetic Reciprocating Compressor (Scotch Yoke Mechanism)  
(Product under license SANYO Japan) Size 30-250 Watt.

**Compressor series / Refrigerant**

C-BN, C-BZN, C-BE, C-BF / R-134a  
C-QN / R-134a  
C-BH / R-600a  
C-BR / R-404A

Shareholder: Kulthorn Kirby Public Company Limited 100%

Customers: **Domestic** – Haier, Sanyo, Toshiba, Hitachi, Daewoo, Samsung, Sanden, etc.  
**Total = 35%**  
**Export** – Daewoo, Sanyo Group, GE, Sanden, Haier, Singer, Videocon,  
Toshiba, etc.  
**Total = 65%**

Quality System: ISO 9001:2000 Certified by TUV Nord      Year 2003  
Q-Mark Certified by F.T.I.      Year 2007

