



24DN SERIES

THREE PHASE, HERMETICALLY SEALED
THERMAL OVERLOAD PROTECTOR (TOP)
SWITCHES

PRODUCT OVERVIEW

"Krishna" 24DN series hermetically sealed three phase on winding protector is automatic reset device which interrupts line current at the centerpoint of a WYE (star) wound motor. These protectors are complied with Restriction On use of Hazardous Substances (RoHS). These protectors are manufactured as per international quality standards at our most modern manufacturing facility at Vasai, India.

SALIENT FEATURES

- ◇ Hermetically sealed three phase on winding protector.
- ◇ Suitable for three phase Refrigeration & Air conditioning Compressor motor.
- ◇ Snap acting and auto-reset type.
- ◇ Compact & reliable design suitable for close coupling to motor windings.
- ◇ Protects WYE (star) wound three phase motors from 1HP to 6HP.
- ◇ Hermetically sealed for leakage protection.
- ◇ Design for low and high side pressure applications.
- ◇ Rugged construction resistant to mechanical damages.

APPLICATIONS

This protector gives protection to three phase motors used in refrigerators and air conditioning compressors from high winding temperature. However it may be used for protection of any WYE wound three phase motor where hermetic sealing is required due to environmental condition. Compact design of the device allows it to be installed directly on motor windings for close temperature monitoring to improve its over temperature protection.

It protects the motor in conditions like:

- ◇ Loss of refrigeration charge.
- ◇ Secondary single phasing (Loss of phase).
- ◇ Running overload.
- ◇ Low voltage locked rotor.
- ◇ High/low side pressure applications.

USAGES

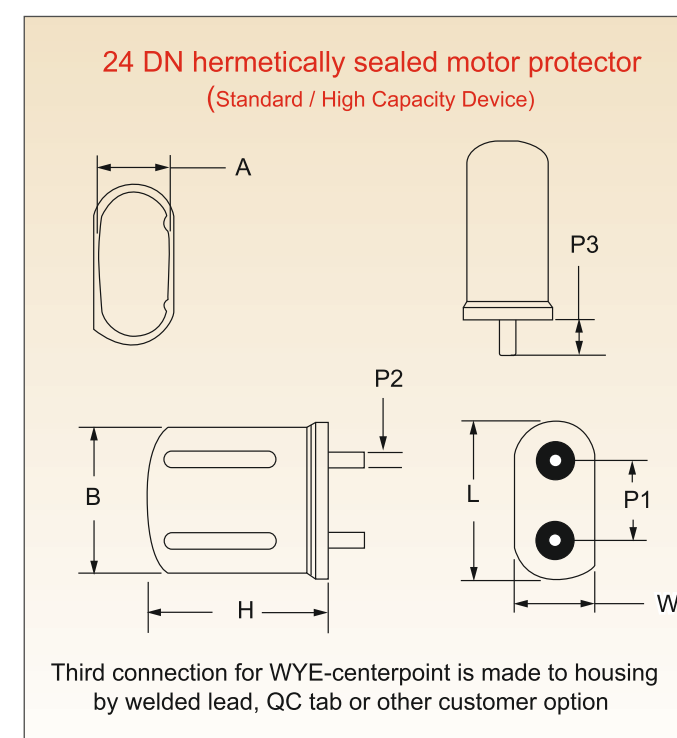
"Krishna" 24DN series hermetically sealed three phase on winding protectors are mainly used in:

- ◇ Airconditioning Compressors
- ◇ Refrigeration Compressors
- ◇ Submersible Pumps
- ◇ High/low side pressure applications

THE ETERNAL GUARDIAN FOR MOTOR PROTECTION

PROTECTOR RATING

Unit	L	W	H	P1	P2	P3	A	B
Inch	1.170	0.670	1.140	0.556	0.089	0.250	0.585	1.080
mm	29.7	17.0	29.0	14.1	2.3	6.4	14.9	27.4



Standard Series

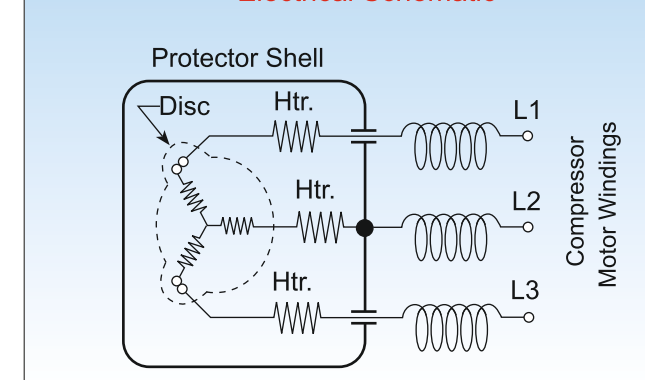
SERIES	VOLTAGE	CURRENT
0XX	230V	90A
1XX	380V / 460V	55A / 45A
2XX	575V	35A

High Capacity Series

SERIES	VOLTAGE	CURRENT
3XX	230V	105A
4XX	380V / 460V	80A / 75A
5XX	575V	60A

* To be used as a guide for selection only. Current ratings are based on life test data which has demonstrated high reliability at 5K cycles (standard series) and 2K cycles (high capacity series) at 0.7 power factor on Krishna life test boards.

Electrical Schematic



Specifications:

Opening Temperatures
95°C to 175°C in 5°C increments.
Tolerance..... ±5°C

Closing Temperatures to suit application
Tolerance..... ±9°C

Pressure Rating 1600 PSIG (110 bar)

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