



# varixx



## ZYGGOT SOLIDVAR

### SOLID STATE CONTACTORS

#### DESCRIPTION

Solidvar Solid State Contactors represent an evolution in relation to the electro-magnetic mechanical contactors. The durability of Varixx Solid State Contactors is far superior to traditional contactors due to the absence of moving mechanical components, reduced arc wear and the use of high quality semiconductor materials.

The solid state contactors were designed to support highly inductive loads, such as alternating current induction motors. Whether squirrel-cage, in-direct, or non-direct starting, Solidvar Solid State Contactors have the advantage of not generating transients and handling high switching frequencies. These attributes provide substantial savings by reducing the need for maintenance and unplanned shutdowns.

Solidvar Solid State Contactors operate with soft switching. They turn on when there is no voltage and turn off when there is no current, thus avoiding the generation of electromagnetic noise, over-voltages, and smoothing the starting in-rush current.

#### BENEFITS

- ◆ Operates in harsh environments
- ◆ 20000 Maneuvers Per Hour
- ◆ Wear-Free Contactors
- ◆ No Noise Generation
- ◆ Preserves Electrical Motor Insulation
- ◆ Immune against Vibration and Impacts
- ◆ No Power Surge on Shutdowns

#### ELECTRICAL FEATURES

- ◆ Nominal Currents: 20 to 2000 Amp at 600 VAC (Max)
- ◆ Poles: Single Phase, Dual Phase, Three Phase, Three Phase Reversing
- ◆ Isolation between command and power: 2500V
- ◆ Isolation between power/mass: 1500 V.
- ◆ Modular Auxiliary Contacts
- ◆ Configurable Time Delays
- ◆ Ambient Operating Temperature rating up to 80°C

#### APPLICATIONS



Electric Motors



Overhead Cranes



Conveyors



Capacitor Banks

[Process Instrumentation and Measurement Services, Inc. \(PIMS\)](#)

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1



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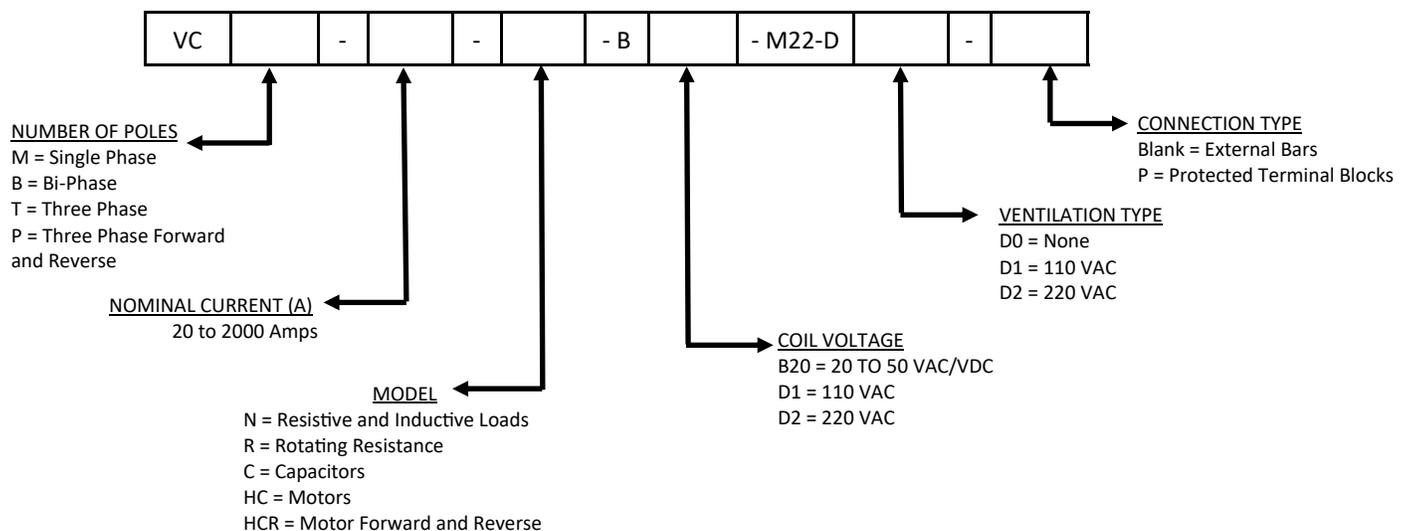
### TECHNICAL SPECIFICATIONS

Nominal Voltage	220 VAC to 600 VAC
Nominal Currents	20 Amp to 2000 Amp
Number of Poles	Single Phase and Three-Phase
Ambient Temperature	0°C to 40°C (Up to 80°C with Derating)
Power/Mass Isolation	1500V
Command/Power Isolation	2500V
Protection Degree	IP20
Operating Frequency	Up to 20,000 Maneuvers Per Hour
MTBF	≥20 Years, 200 Million Maneuvers

### AVAILABLE MODELS

Series	Application
N	Resistive Loads
R	Rotor Resistive Loads
HC	Inductive Loads
HCR	6-Pole and 8-Pole Reversal

### CONFIGURATOR



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