

Revised 2nd Edition

Got 3 Phase?



Unique 3 Phase Master Book

Building 3 Phase Converters and Transformers

Unique 3 Phase Master Building 3 Phase Converters And Transformers

A Gutmann



Unique 3 Phase Master Building 3 Phase Converters And Transformers:

Unique 3 Phase Master Book Douglas Arndt, 2009-10-21 Need to run a three phase motor on single phase power Why use a rotary converter that is inefficient and noisy Build your own transformer converter and start heavily loaded motors with ease Learn how to make this unique 3 phase converter and more I show how to modify commercial transformers and also how to build your own power transformer Need a large battery charger I can show you how to make it Do you have a small cheap wire feed welder I show how to make a transformer that can weld at 180 amps In this over 100 page 8 by 10 book I show all of this plus how to hook up capacitors hook up and modify a start relay and every detail you will need to know about running three phase motors at home Filled with clear easy to understand drawings and illustrations Need to make some extra money Build converters for others Originally sold as a DVD on eBay under the name Unique3phase Over 900 positive feedbacks

Unique 3 Phase Master Book 2nd Edition Douglas Arndt, 2015-12-22 Many years ago I needed to run a 10 hp 3 phase vacuum cleaner I called up an electrician and he came over with a 25 hp rotary converter To make a long story short he could not get it to run The rotary converter did not have the power to start it It would crank up to about half speed and then stall there You could smell the insulation burning throughout the whole shop He then suggested a 40 hp rotary That made no sense all I wanted to run was a 10 hp motor and if we can't get a 10 hp motor started why are we bringing in a 40 hp one Plus the price was way beyond what I had expected I did some research and found another way to run these motors It is called the transformer method It works fantastic for simple motors such as dust collectors air compressors pumps fans vacuums grinders etc It doesn't have to be running before starting your motor It saves energy and has better starting power This allows you to run a larger motor then you possibly could with a rotary converter It's as easy to build as a rotary converter and costs about half as much If that was all I told you how to do the book could be a couple of chapters But no I found a way to make transformers that's very unusual but works great I teach you how to get transformer cores at scrap metal prices and use them to make your own transformers I teach you how to modify commercial transformers I have been selling my book and dvd set for about ten years and in that time I have talked to hundreds of people after they bought my literature What I learned was in different countries people have to deal with raising the voltage to twice what they get from the power company and they have less amperage then we do in America This is a challenge that the transformer converter can solve In addition to the transformer converter I also show you how to hook up the automatic start relay how to hook up capacitors for 240 volt motors and also high voltage motors how you can use oil cooling to increase the power your transformer can supply and how to build a powerful welding power supply and also a massive battery charger at any voltage you need And of course I did devote a chapter on how to build and tune the rotary converter I have spent years doing this and have watched people waste their time and money trying to solve all their three phase motor problems with an old war horse the rotary converter Many times they would have been much better off time wise money wise and results wise using

the transformer converter As an example I have a chapter on how you could have a business working as an adviser in this field Using your knowledge of the different types of converters to help set people up with the right converter for their application As an additional benefit being able to supply a transformer converter you built in your down time really sets you apart from someone offering only one solution the rotary converter Just as I mentioned before the electrician wanted to sell me a 40 hp rotary converter because he had no other options Check out the Unique3phase website and look at some videos I have done Thanks for taking an interest in this and good luck Doug

Unique3phase Master Book Douglas

Arndt,2017-08-18 Three phase motors are a type of electric motor and they power a multitude of things You may encounter these motors in about any field you are involved in From farmers to machine shop operators to business owners sooner or later a three phase machine shows up How do you handle that If you don t have three phase the cost to get it is probably prohibitive What s next I have spent years running and testing various ways to run three phase motors on single phase power There are a number of ways to make the phase conversion and you need to know the best way for your situation I started with the phase conversion process in the early 90 s I had an industrial vacuum cleaner that I needed to run The local electric shop brought out a rotary phase converter and it was unable to start the vacuum I sought out and found a better way It s called the transformer converter and it was cheap for me to build and worked great I started selling information about how to build one Accumulating a few thousand customers gave me more insight into what people needed Which turned out to be more information Over the years my teaching has morphed into a full answer to the question How should I run my machines I should point out that many times my advice to people after hearing about their situation is to buy a commercial converter I like to be right up front with people and for some building your own is not the answer In those cases I feel that I am guiding those people through a maze of information and steering them to the most logical conclusion But what about the person that wants to build their own That s where I spend quite a bit of time and pages in the book There are only two types of converters you can build yourself the transformer converter and the rotary converter Which is best for your machines I help you decide But of course I take it much further than that I show you all the parameters of what you are going to run into and what you can get away with How to balance a rotary converter Does your power company meter really record what the rotary is using What is the best way to raise the voltage to run motors at twice your power company volts i detail five different ways to do that one you have never heard of before It s my own invention How to make your own transformer out of commonly available cores How to modify commercial transformers I put special emphasis on my overseas customers and their unique needs How to hook up the start relay How to use capacitors and hook them up How to build the transformer converter using either a transformer you made or a commercial transformer Basic electrical principals and why the power company and motor manufacturers use three phase Construction helps on how to save money putting a converter together How to build a big welder or battery charger power supply Using oil cooling to run larger motors with your homemade transformer What is

motor protection and how does a motor starter work What is meant by service factor and ambient temperature and how that helps us To help illustrate some of these points I have a link in the book to videos only for book purchasers A chapter detailing how you can make money in three phase conversion not by making and selling converters on eBay but much bigger and potentially more profitable than that This is pretty much a complete guide to running three phase motors on single phase power It contains over 20 years of knowledge put into one master book I hope you enjoy it and have fun with an exciting field of interest Starting and running a 25 or 30 hp air compressor at home will get your blood flowing more than stamp collecting This is an action hobby with thrilling results HVDC for Grid Services in Electric Power Systems Gilsoo Jang, 2019-11-18

The modern electric power system has evolved into a huge nonlinear complex system due to the interconnection of thousands of generation and transmission systems The unparalleled growth of renewable energy resources RESs has caused significant concern regarding grid stability and power quality and it is essential to find ways to control such a massive system for effective operation The controllability of HVDC and FACTS devices allows for improvement of the dynamic behavior of grids and their flexibility Research is being carried out at both the system and component levels of modelling control and stability This Special Issue aims to present novel HVDC topologies and operation strategies to prevent abnormal grid conditions

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Popular Science ,1971-10 Popular Science gives our readers the information and tools to improve their technology and their world The core belief that Popular Science and our readers share The future is going to be better and science and technology are the driving forces that will help make it better **Announcements ...** Catholic University of America, 1915

Electrical Times ... ,1921 *The Railway and Engineering Review* ,1906

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Unique 3 Phase Master Building 3 Phase Converters And Transformers Introduction

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