

# VacuFuse® II Self-Resetting Interrupter:

Power Reliability at the Grid Edge





# Customer Expectation is Raising the Bar



**Increasing**  
Energy Demands



**Shifting** Regulatory  
Landscape



**More Emphasis**  
on Customers  
Experiencing Multiple  
Interruptions (CEMI)

# Unsolved Mystery

- Blown Fuse Where Cause is Unknown = Permanent Outage



# The Hidden Costs of Transformer Fuses



**70%**  
Nuisance Outages



**70%**  
Wasted O&M Expenses



**DISSATISFIED  
CUSTOMERS**





# VacuFuse® II Self-Resetting Interrupter



# Eliminate Nuisance Fuse Operations with VacuFuse® II Self-Resetting Interrupter



**Improves**  
Customer  
Satisfaction



**Offers** Simple  
Deployment &  
Easy Operation



**Delivers**  
Coordination  
Flexibility

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# Improves Customer Satisfaction

- Targets Customers Experiencing Multiple Interruptions (CEMI)



# Improves Customer Satisfaction



Fault Management  
Solution



Automatically Clears  
Temporary Faults



Great for Remote Locations  
or Troublesome Hotspots





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# Offers Simple Deployment



Installs in  
Minutes Using  
Cutouts

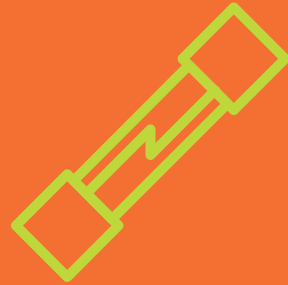


# Easy Operation

- Added safety features



**No**  
Fuse



**No**  
Sparks



**No**  
Expulsion of  
Fragments



**Increased**  
Operator &  
Public Safety



# Easy Operation

- Added safety features



Drop-Open Visible Gap



Close Manually Using a Hookstick

# Easy Operation

- Added safety features

Automatic Delayed Close  
After 45 Seconds







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# Delivers Coordination Flexibility

- Superior by design



## VacuFuse II Interrupter



- Electronic fuse alternative
- Always maintains exact parameters
- Avoids nuisance outages

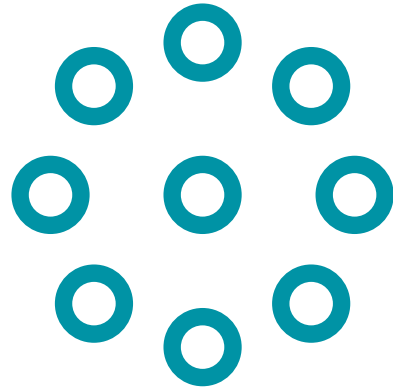
## Inferior Fuse Link



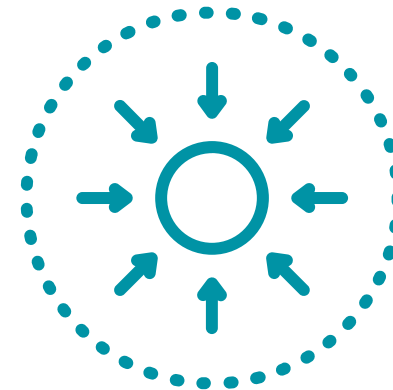
- Features fuse element susceptible to damage over time
- When fuse element is compromised, TCC shifts
- Results in unpredictable, nuisance outages

# Delivers Coordination Flexibility

- Choose from standard or transformer-specific TCC curves



Standard



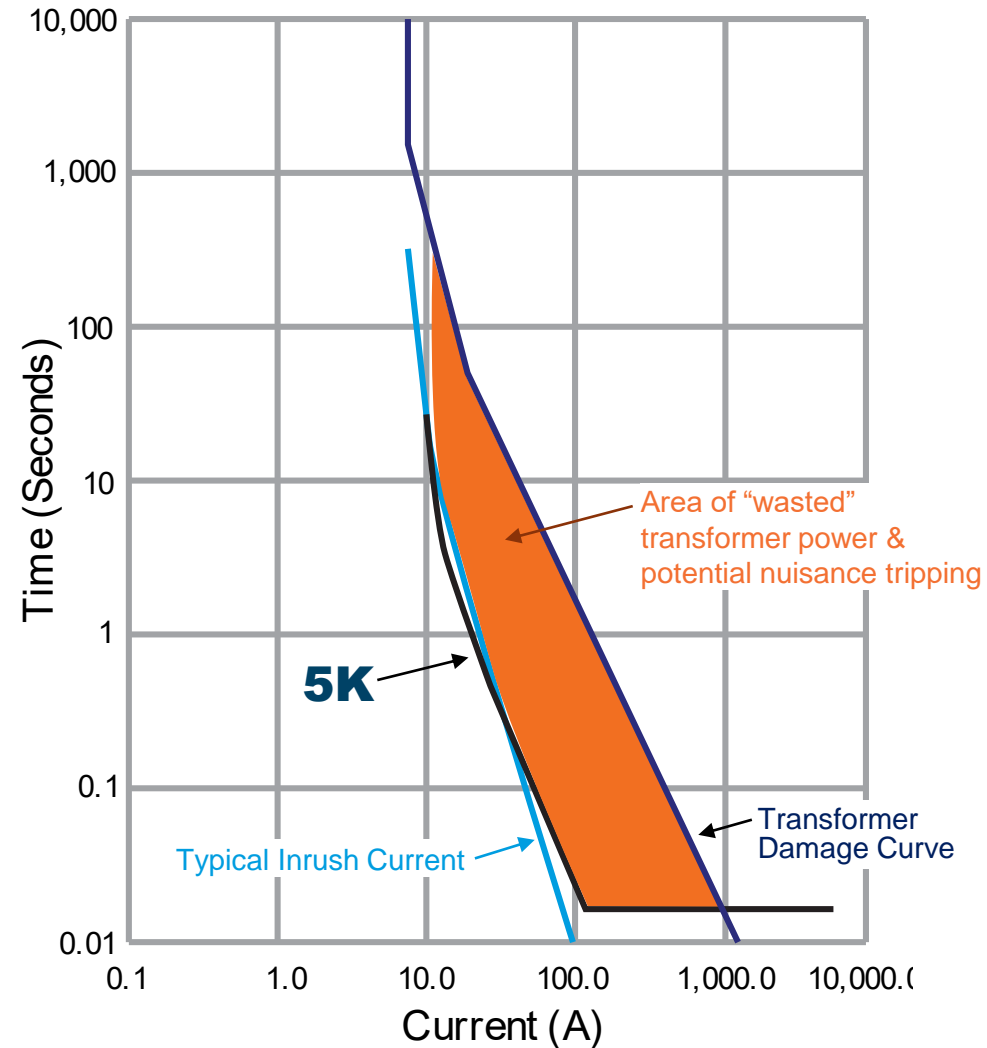
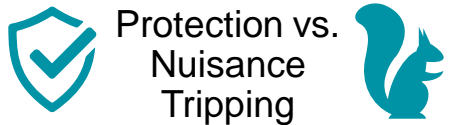
New Transformer-Specific

# Delivers Coordination Flexibility

**i** Example of a 50 kVA, 12.7 kV transformer

- Standard TCC curve: 5K

Marginal Protection  
★☆☆☆



# Delivers Coordination Flexibility

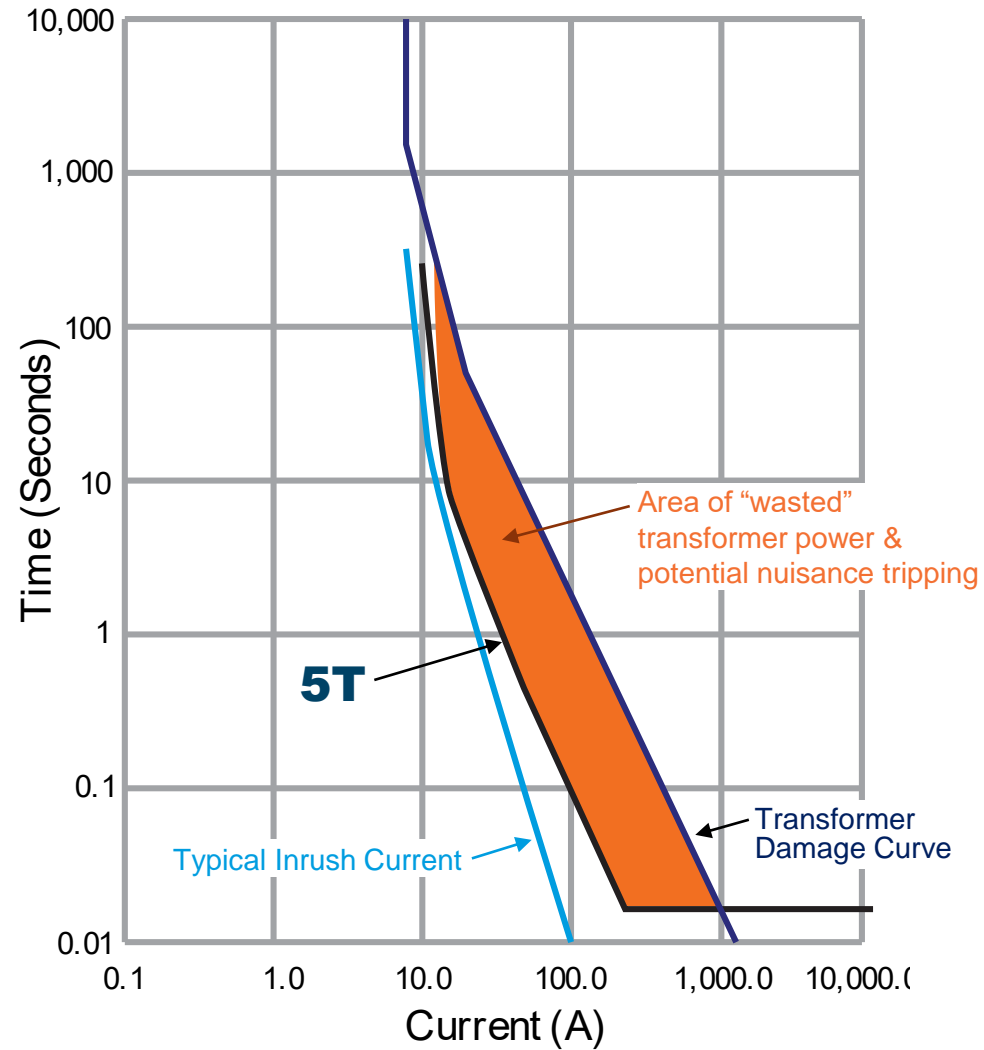
**i** Example of a 50 kVA, 12.7 kV transformer

- Standard TCC curve: 5T

OK Protection  
★ ★ ★ ★



Protection vs. Nuisance Tripping



# Delivers Coordination Flexibility

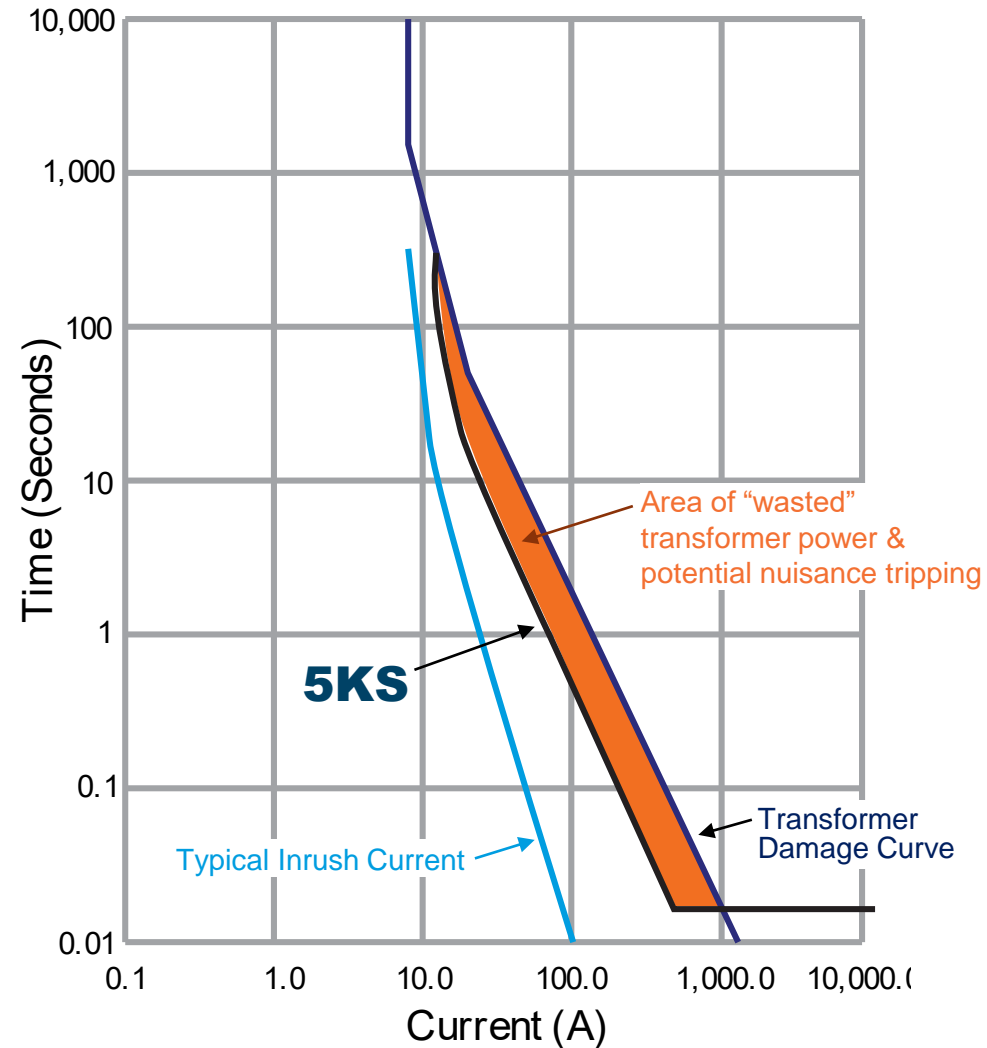
**i** Example of a 50 kVA, 12.7 kV transformer

- Standard TCC curve: 5KS

Better Protection  
★ ★ ★ ★



Protection vs. Nuisance Tripping

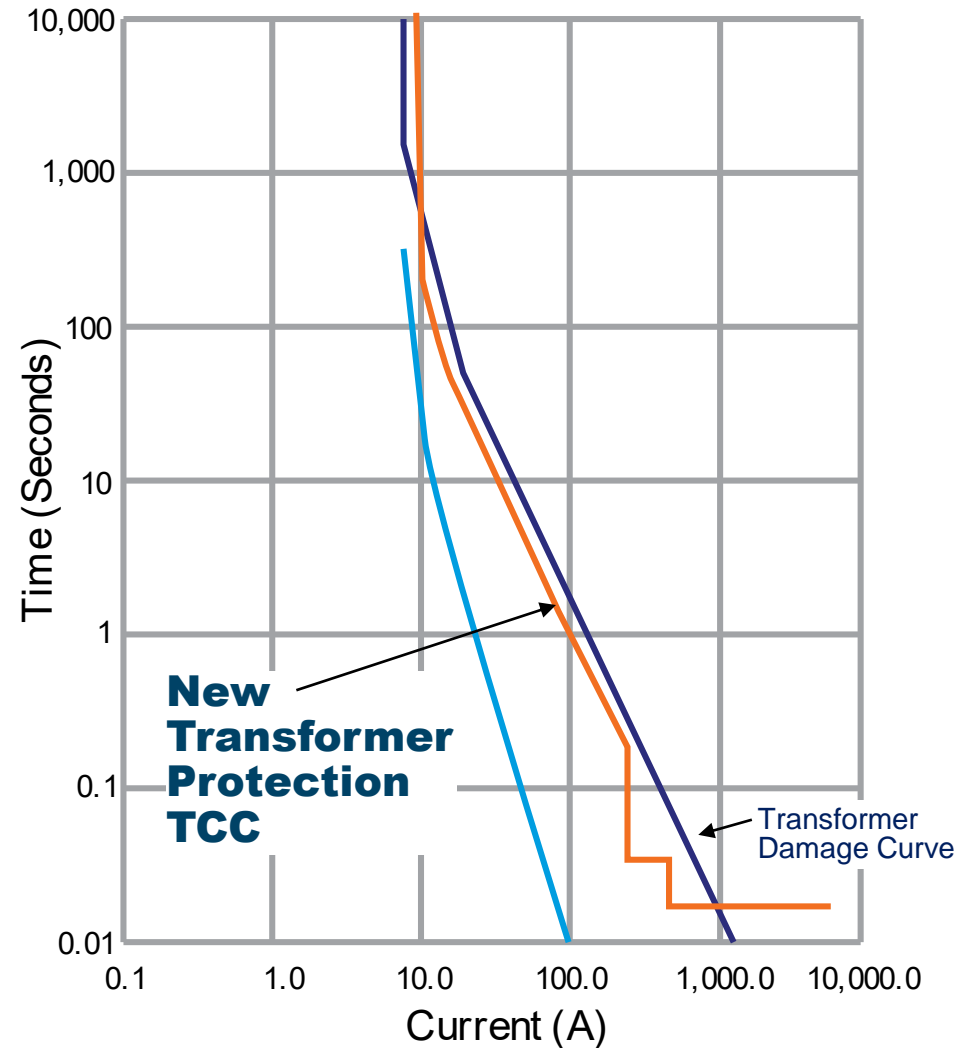
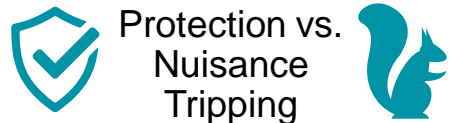


# Delivers Coordination Flexibility

**i** Example of a 50 kVA, 12.7 kV transformer

- New transformer-specific curves for superior protection

Best Protection  
★★★★





# Questions?



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## Our Branches:

### **JOHANNESBURG**

TEL: (011) 288-0000

FAX: (011) 673-2043

E-MAIL: [ebm@ebm.co.za](mailto:ebm@ebm.co.za)

### **PIETERMARITZBURG**

TEL: (033) 386-0011

FAX: (033) 386-0015

E-MAIL: [ebmkzn@ebm.co.za](mailto:ebmkzn@ebm.co.za)

### **EAST LONDON**

TEL: (043) 726-0332

FAX: (043) 726-0333

E-MAIL: [ebmel@ebm.co.za](mailto:ebmel@ebm.co.za)

### **CAPE TOWN**

TEL: (021) 905-4002

FAX: (021) 905-4091

E-MAIL: [ebmcape@ebm.co.za](mailto:ebmcape@ebm.co.za)

