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2021 IEEE Conference of Russian Young Researchers in Electrical and Electronic Engineering, ElConRus 2021; Moscow; Russian Federation; 26 January 2021 до 28 January 2021; Номер категорииICFP21A11-ART; Код 168373

Reed Switches Differential Protection of Conversion Facilities with the Second - harmonic Lockout (Conference Paper)

Kletsel, M.Y.^a  Barukin, A.S.^a  Mel'nikov, V.Y.^b 

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Краткое описание

 Просмотр пристатейных ссылок (17)

Advantages and disadvantages of traditional differential protections of conversion facilities and reed switch protections are discussed. A reed switch differential protection is suggested, the sensitivity of which is ensured by the second - harmonic lockout in the case of a magnetizing inrush of the conversion facility transformer. Another difference is that to obtain information about the current in the phases from the high voltage side of the transformer, windings of reed switches mounted near their current conductors are used. A technique for selecting trip set points of such protections is described and the sensitivity of its is estimated. Special attention is paid to the choice of parameters of reed switches mounted near the DC busbar and their windings. Behavior of the protection is considered under different operating modes of the conversion facility , and the field of its use is determined. © 2021 IEEE.

Актуальность темы SciVal

Тема: Electric Switchgear | Semiconductor Switches | Smart Meters

Процентиль актуальности: 57.381 

Ключевые слова автора

conversion facility differential protection magnetizing inrush reed switch second - harmonic sensitivity

Включенные в указатель ключевые слова

Engineering controlled terms: Electric power system protection Facilities HVDC power transmission Reed relays Transformer windings Winding

Engineering uncontrolled terms Choice of parameters Conversion facility Current conductors Differential protection High voltage Magnetizing inrush Operating modes Second harmonics

Engineering main heading: Transformer protection

Сведения о финансировании

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- 1 Kletsel, M., Kaltayev, A., Mashrapov, B.
Resource-saving protection of powerful electric motors
(2017) *Przegląd Elektrotechniczny*, 93 (5), pp. 40-43. Цитировано 12 раз.
<http://sigma-not.pl/czasopisma-48-elektronika-energetyka-elektrotechnika-przeglad-elektrotechniczny.html>
doi: 10.15199/48.2017.05.09

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- 2 Kletsel, M., Barukin, A., Talipov, O.
About the Biot-Savart-Laplace law and its use for calculations in highvoltage AC installations
(2017) *Przegląd Elektrotechniczny*, 93 (11), pp. 129-132. Цитировано 12 раз.
<http://sigma-not.pl/czasopisma-48-elektronika-energetyka-elektrotechnika-przeglad-elektrotechniczny.html>
doi: 10.15199/48.2017.11.28

[View at Publisher](#)

- 3 Kletsel, M., Zhantlesova, A., Mayshev, P., Mashrapov, B., Issabekov, D.
New filters for symetrical current components
(2018) *International Journal of Electrical Power and Energy Systems*, 101, pp. 85-91. Цитировано 13 раз.
doi: 10.1016/j.ijepes.2018.03.005

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- 4 Kletsel, M., Borodenco, V., Barukin, A., Kaltayev, A., Mashrapova, R.
Constructive features of resource-saving reed relay protection and measurement devices
(2019) *Revue Roumaine des Sciences Techniques Serie Electrotechnique et Energetique*, 64 (4), pp. 309-315. Цитировано 11 раз.
<http://revue.elth.pub.ro/viewpdf.php?id=863>

- 5 Kletsel, M., Mashrapova, R., Mashrapov, B.
Methods for the construction of protection with magnetosensitive elements for the parallel circuits with single end supply
(2020) *Proceedings - 2020 International Conference on Industrial Engineering, Applications and Manufacturing, ICIEAM 2020*, art. no. 9111997. Цитировано 9 раз.
<http://ieeexplore.ieee.org/xpl/mostRecentIssue.jsp?punumber=9106948>
ISBN: 978-172814590-7
doi: 10.1109/ICIEAM48468.2020.9111997

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- 6 Mashrapov, B., Talipov, O., Mashrapova, R.
Overcurrent Protection Scheme Utilising Reed Switches Instead of Current Transformers

(2020) *Proceedings - 2020 International Ural Conference on Electrical Power Engineering, UralCon 2020*, art. no. 9216263, pp. 291-295. Цитировано 4 раз.
<http://ieeexplore.ieee.org/xpl/mostRecentIssue.jsp?punumber=9210502>
ISBN: 978-172816209-6
doi: 10.1109/UralCon49858.2020.9216263

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- 7 Kletsel, M., Barukin, A., Gabdulov, A.
Construction of Resource-Saving Differential Protections for Converter Units with Transformers with 2N Secondary Windings and 2N Rectifiers

(2020) *Proceedings - 2020 International Ural Conference on Electrical Power Engineering, UralCon 2020*, art. no. 9216256, pp. 264-268. Цитировано 4 раз.
<http://ieeexplore.ieee.org/xpl/mostRecentIssue.jsp?punumber=9210502>
ISBN: 978-172816209-6
doi: 10.1109/UralCon49858.2020.9216256

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- 8 Kletsel, M., Barukin, A., Amirbek, D.
Reed Switch and Magneto Resistor-Based Differential Protection Featuring Test Diagnostics for Converters

(2020) *2020 International Multi-Conference on Industrial Engineering and Modern Technologies, FarEastCon 2020*, art. no. 9271446. Цитировано 3 раз.
<http://ieeexplore.ieee.org/xpl/mostRecentIssue.jsp?punumber=9270648>
ISBN: 978-172816951-4
doi: 10.1109/FarEastCon50210.2020.9271446

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- 9 Mashrapov, B.
Improving the Reliability of Diagnosing Reed Switch-Based Overcurrent Protection Circuits

(2020) *2020 International Multi-Conference on Industrial Engineering and Modern Technologies, FarEastCon 2020*, art. no. 9271387. Цитировано 3 раз.
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ISBN: 978-172816951-4
doi: 10.1109/FarEastCon50210.2020.9271387

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- 10 Bogdan, A.V., Kletsel', M.Ya., Nikitin, K.I.
Adaptive back-up overcurrent protection for tapped lines with single-end fud

(1991) *Elektrichestvo*, (2), pp. 51-54. Цитировано 7 раз.

- 11 Kletsel', M.Ya., Nikitin, K.I.
Analysis of the sensitivity of back-up protections for distribution networks in power systems

(1992) *Elektrichestvo*, (2), pp. 19-23. Цитировано 7 раз.

- 12 Kletsel', M.Ya., Nikitin, K.I.
Back-up line protection that responding to the difference in magnitudes of the phase currents and their increment

(1993) *Elektrichestvo*, (10), pp. 23-26. Цитировано 8 раз.

- 13 Kletsel, M., Mashrapov, B.
Traversal protection of two parallel lines without voltage path (Открытый доступ)

(2016) *Przegląd Elektrotechniczny*, 92 (2), pp. 168-170. Цитировано 8 раз.
<http://sigma-not.pl/czasopisma-48-elektronika-energetyka-elektrotechnika-przeglad-elektrotechniczny.html>
doi: 10.15199/48.2016.02.45

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- 14

Kletsel, M., Mashrapov, B.

Differential protection of three and four parallel lines of idling current control

(2017) *Przegląd Elektrotechniczny*, 93 (10), pp. 109-112. Цитировано 7 раз.
<http://sigma-not.pl/czasopisma-48-elektronika-energetyka-elektrotechnika-przeglad-elektrotechniczny.html>
doi: 10.15199/48.2017.10.26

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Kaltayev, A., Mashrapov, B., Talipov, O.

Designs for mounting reed switches in closed complete current conductors and on cable lines

(2020) *Proceedings - 2020 International Conference on Industrial Engineering, Applications and Manufacturing, ICIEAM 2020*, art. no. 9111883. Цитировано 8 раз.
<http://ieeexplore.ieee.org/xpl/mostRecentIssue.jsp?punumber=9106948>
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doi: 10.1109/ICIEAM48468.2020.9111883

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Kletsel, M., Barukin, A., Mashrapov, B.

Designs for Mounting Reed Switches in Vicinity of AC and DC Buses

(2020) *Proceedings - 2020 International Ural Conference on Electrical Power Engineering, UralCon 2020*, art. no. 9216294, pp. 285-290. Цитировано 3 раз.
<http://ieeexplore.ieee.org/xpl/mostRecentIssue.jsp?punumber=9210502>
ISBN: 978-172816209-6
doi: 10.1109/UralCon49858.2020.9216294

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Barukin, A., Berguzinov, A., Talipov, O.

Mounting Measuring Devices of Reed Switch Protection near Conductors of Electrical Installations

(2020) *2020 International Multi-Conference on Industrial Engineering and Modern Technologies, FarEastCon 2020*, art. no. 9271569. Цитировано 2 раз.
<http://ieeexplore.ieee.org/xpl/mostRecentIssue.jsp?punumber=9270648>
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