

Bidirectional wide voltage range series-parallel resonant buck-boost DC-DC converter

Blinov, Andrei; Chub, Andrii; Vinnikov, Dmitri 2024 IEEE 21st International Power Electronics and Motion Control Conference (PEMC) 2024 / 5 p <https://doi.org/10.1109/PEMC61721.2024.10726369>

Capacitor coupled voltage transformer inaccuracy effect on circuit breaker operation

Asefi, Sajjad; Andreesen, Guido; Kilter, Jako; Landsberg, Mart 2023 23rd International Scientific Conference on Electric Power Engineering (EPE) 2023 / 5 p <https://doi.org/10.1109/EPE58302.2023.10149279>

Configurable solid state protection devices for residential DC microgrids

Jalakas, Tanel; Viiding, Siim-Erik 2025 IEEE Seventh International Conference on DC Microgrids (ICDCM) 2025 / 5 p <https://doi.org/10.1109/ICDCM63994.2025.11144706>

A coupled inductor-based SSCB with reduced components for DC microgrid protection

Pithanisetty, Prasanth; Dsa, Daniel; Banavath, Satish Naik; **Carvalho, Edivan Laercio;** De Carne, Giovanni; **Vinnikov, Dmitri** IEEE transactions on power electronics 2025 / p. 11428-11441 <https://doi.org/10.1109/TPEL.2025.3551740> [Article at Scopus](#)

Design and development of solid state circuit breaker with residual current protection for residential prosumer DC microgrids

Jalakas, Tanel; Chub, Andrii; Roasto, Indrek; Vinnikov, Dmitri; Kurnitski, Jarek Proceedings of the Estonian Academy of Sciences 2025 / p. 281-290 <https://doi.org/10.3176/proc.2025.2S.02>

Design issues of SSCBs for residential DC microgrid

Jalakas, Tanel; Chub, Andrii; Roasto, Indrek; Vinnikov, Dmitri 2024 IEEE 65th International Scientific Conference on Power and Electrical Engineering of Riga Technical University (RTUCON) 2024 / 6 p <https://doi.org/10.1109/RTUCON62997.2024.10830826>

Design of solid state circuit breaker

Jalakas, Tanel; Chub, Andrii; Roasto, Indrek; Vinnikov, Dmitri 2022 IEEE 63th International Scientific Conference on Power and Electrical Engineering of Riga Technical University (RTUCON): conference proceedings 2022 / p. 1-5 <https://doi.org/10.1109/RTUCON56726.2022.9978903>

Dynamic reconfiguration for wide output voltage range isolated buck-boost PFC converter

Verbytskyi, Ievgen; Nadeem, Mohammad Mahad; Blinov, Andrei; Carvalho da Silva, Edivan Laercio; Chub, Andrii; Vinnikov, Dmitri 2023 IEEE 8th Southern Power Electronics Conference and 17th Brazilian Power Electronics Conference (SPEC/COBEP) 2023 / 5 p. : ill <https://doi.org/10.1109/SPEC56436.2023.10407792>

Dynamic Time Warping Technique for Condition Monitoring of High Voltage Circuit Breakers

Asefi, Sajjad; Kilter, Jako 2025 15th International Conference on Power, Energy, and Electrical Engineering (CPEEE) 2025 / p. 38-42 <https://doi.org/10.1109/CPEEE64598.2025.10987408>

Elektriseadmed [Võrguteavik] : liigvoolukaitselülitid majapidamis- ja muudele taoliste paigaldistele. Osa 2, Vahelduv- ja alalisvoolul kasutatavad kaitselülitid = Electrical accessories : circuit-breakers for overcurrent protection for household and similar installations. Part 2, Circuit-breakers for a.c. and d.c. operation (IEC 60898-2:2016, modified)

2021 https://www.ester.ee/record=b5473393*est

Experimental performance validation of Z-source DC circuit breaker for high impedance faults

Pogulaguntla, Aditya; Naik Banavath, Satish; **Chub, Andrii; Vinnikov, Dmitri;** Singh, Rajendra 2024 IEEE Sixth International Conference on DC Microgrids (ICDCM) 2024 / 5 p <https://doi.org/10.1109/ICDCM60322.2024.10664702>

Fault simulation and analysis of high-voltage circuit breaker's spring charging mechanism using a universal motor model

Asad, Bilal; Vaimann, Toomas; Kallaste, Ants; Kilter, Jako; Sardar, Muhammad Usman 2024 IEEE 65th International Scientific Conference on Power and Electrical Engineering of Riga Technical University (RTUCON) 2024 / 5 p <https://doi.org/10.1109/RTUCON62997.2024.10830846>

High voltage circuit breaker health index Evaluation considering measurement accuracy

Asefi, Sajjad; Kilter, Jako; Shayesteh, Ebrahim; Hilber, Patrik; Lindquist, Tommie IEEE PES Innovative Smart Grid Technologies Conference Europe (ISGT Europe 2024) : proceedings 2024 / 5 p <https://doi.org/10.1109/ISGTEUROPE62998.2024.10863019>

Hybrid residual current device and solid state circuit breaker for residential DC microgrids

Jalakas, Tanel; Chub, Andrii; Roasto, Indrek; Vinnikov, Dmitri 2024 19th Biennial Baltic Electronics Conference (BEC) 2024 / 5 p <https://doi.org/10.1109/BEC61458.2024.10737970> [Article at Scopus](#) [Conference proceedings at Scopus](#) [Article at WOS](#)

Inimese-masina-liidese üld- ja ohutuspõhimõtted, märgistus ja tuvastamine : seadmeklemmide, juhtide otste ja juhtide tuvastamine = Basic and safety principles for man-machine interface, marking and identification : identification of

equipment terminals, conductor terminations and conductors (IEC 60445:2021)

2021 https://www.ester.ee/record=b5480843*est

Inimese-masina-liidese üld- ja ohutuspõhimõtted, märgistus ja tuvastamine [Võrguteavik] : seadmeklemmide, juhtide otsastuste ja juhtide tuvastamine = Basic and safety principles for man-machine interface, marking and identification : identification of equipment terminals, conductor terminations and conductors (IEC 60445:2010)

2017 http://www.ester.ee/record=b4759241*est

Inimese-masina-liidese üld- ja ohutuspõhimõtted, märgistus ja tuvastamine. Juhtide tuvastamine värvide, tähtede või numbritega = Basic and safety principles for man-machine interface, marking and identification. Identification of conductors by colours or alphanumerics (IEC 60446:2007)

2010 https://www.ester.ee/record=b2638691*est

Inimese-masina-liidese üld- ja ohutuspõhimõtted, märgistus ja tuvastamine. Seadmeklemmide, juhtide otste ja juhtide tuvastamine = Basic and safety principles for man-machine interface, marking and identification. Identification of equipment terminals, conductor terminations and conductors (IEC 60445:2010)

2011 https://www.ester.ee/record=b2715738*est

Juhiseid rikkevoolukaitselülite kasutamiseks

Teemets, Raivo Ehitaja 1997 / 1/2, lk. 64-65: ill

Kaitseaparaadid

Lahtmets, Rain 2006 http://www.ester.ee/record=b2113826*est

Kaitselülitid

Teemets, Raivo 1994 https://www.ester.ee/record=b1054890*est

Kaitselülite kohta käiv standard muutub

Risthein, Endel Elektriala 2017 / lk. 14 http://www.ester.ee/record=b1240496*est https://artiklid.elnet.ee/record=b2829413*est

Kaitselülite uus põlvkond

Lahtmets, Rain Pinger 1997 / 10. apr., lk. 2: ill

Madalpingelised lülitusaparaadid

Risthein, Endel 2005 https://www.ester.ee/record=b2112701*est

Madalpingelised lülitusaparaadid

Lehtla, Tõnu; Risthein, Endel 2009 https://www.ester.ee/record=b2478893*est

Madalpingelised lülitusaparaadid. Osa 6-2, Mitmetoimelised aparaadid. Juhtimis-kaitselülid = Low-voltage switchgear and controlgear. Part 6-2, Multiple function equipment. Control and protective switching devices (or equipment) (CPS) (IEC 60947-6-2:2020+COR1:2021)

2023 https://www.ester.ee/record=b5558784*est

Madalpingelised lülitusaparaadid. Osa 2, Kaitselülid = Low-voltage switchgear and controlgear. Part 2, Circuit-breakers (IEC 60947-2:2006/A1:2009)

2012 https://www.ester.ee/record=b2889103*est

Madalpingelised lülitusaparaadid. Osa 2, Kaitselülid [Võrguteavik] = Low-voltage switchgear and controlgear. Part 2, Circuit-breakers (IEC 60947-2:2016/A1:2019)

2020 https://www.ester.ee/record=b5307904*est

Madalpingelised lülitusaparaadid. Osa 2, Kaitselülid [Võrguteavik] = Low-voltage switchgear and controlgear. Part 2, Circuit-breakers (IEC 60947-2:2016+COR1:2016)

2017 http://www.ester.ee/record=b4768106*est

Madalpingelised lülitusaparaadid. Osa 2, Kaitselülid [Võrguteavik] = Low-voltage switchgear and controlgear. Part 2, Circuit-breakers (IEC 60947-2:2016+COR1:2016+IEC 60947-2:2016/A1:2019)

2020 https://www.ester.ee/record=b5307902*est

Measurement and operation based condition monitoring methodology for high voltage circuit breakers

Asefi, Sajjad; Andreesen, Guido; Leinakse, Madis; Kilter, Jako; Kalmet, Tauri; Manninen, Henri; Landsberg, Mart 2022 IEEE PES Innovative Smart Grid Technologies Conference Europe (ISGT-Europe) : proceedings 2022 / Art. 184786

<https://doi.org/10.1109/ISGT-Europe54678.2022.9960521>

Optimal condition monitoring of high voltage circuit breakers

Asefi, Sajjad 21st International Symposium "Topical problems in the field of electrical and power engineering. Doctoral school of energy and geotechnology. III" : Pärnu, Estonia, June 15-18, 2022 2022 / p. 81-82 : ill https://www.ester.ee/record=b5504019*est

Protection and control implementation for bidirectional step-up/down partial power converter for droop-controlled DC microgrids

Yadav, Neelesh; Chub, Andrii; Hassanpour, Naser; Blinov, Andrei; Vinnikov, Dmitri IEEE transactions on industry applications 2025 / 11 p <https://doi.org/10.1109/TIA.2025.3561767>

Rikkevoolukaitse

Teemets, Raivo 2004 https://www.ester.ee/record=b1961658*est

Rikkevoolukaitse

Teemets, Raivo Ehitaja 1996 / 8, lk. 69-70: ill

Rikkevoolukaitse lülite paigaldamine

Teemets, Raivo Ehitaja 1996 / 9, lk. 73-74: ill

Rikkevoolukaitse lülite kasutamine

1996 https://www.ester.ee/record=b1058335*est

Variability of high voltage circuit breaker performance parameters for condition monitoring

Asefi, Sajjad; Kiitam, Ivar; Manninen, Henri; Kilter, Jako; Tealane, Marko; Landsberg, Mart International Conference on Condition Monitoring, Diagnosis and Maintenance 2023 - CMDM 2023 (7th edition), Bucharest, Romania, October 31th - November 2nd, 2023 : proceedings 2023 / p. 1-10

Исследование некоторых вопросов защиты электродвигателей в условиях сельскохозяйственного производства : автореферат диссертации на соискание ученой степени кандидата технических наук : N 411**Электрификация сельскохозяйственного производства**

Lepa, Jaan 1968 https://www.ester.ee/record=b1521509*est