

SACE Tmax PV & SACE Tmax PV-E

The solution for photovoltaic

When the power generated by a photovoltaic production system exceeds a certain level and use of a low voltage switch disconnecter is required, Tmax PV moulded-case switch disconnectors are suitable for the purpose.

Tmax PV is the latest T Generation product: from 0 to 1600A , up to 1100 V DC in compliance with IEC 60947-3 standard. Tmax PV includes 6 different sizes: from the compact T1 to the high-performance T7, available in the two versions, with lever operating mechanism and motor operator. Jumpers for connecting poles in series are now available to make installation easier and safer.



Tmax PV switch-disconnectors in compliance with the IEC60947-3

	T1D/PV	T3D/PV	T4D/PV	T5D/PV	T6D/PV	T7D/PV
Conventional thermal current, Ith [A]	160	250	250	630	800	1250-1600
Rated service current in category DC22 B, Ie [A]	160	200	250	500	800	1250-1600
Rated service voltage, Ue [V]	1100 V DC	1100 V DC	1100 V DC	1100 V DC	1100 V DC	1100 V DC
Rated impulse withstand voltage, Uimp [kV]	8	8	8	8	8	8
Rated insulation voltage, Ui [V]	1150 V DC	1150 V DC	1150 V DC	1150 V DC	1150 V DC	1150 V DC
Test voltage at industrial frequency for 1 min. [V]	3500	3500	3500	3500	3500	3500
Rated short-circuit making capacity, switch-disconnector only, Icm [kA]	1.92	2.4	3	6	9.6	19.2
Rated short-time withstand current for 1s, Icw [kA]	1.92	2.4	3	6	9.6	19.2
Versions	F	F	F	F	F	F
Terminals	FC Cu	FC Cu	F	F	F	F

Increasing voltage level in PV installation field is an important issue: the higher the voltage, the lower the expenses, especially when we are speaking about utility-scale installation. That's why ABB wants to go up to the upper bound of DC low-voltage, 1,5kV. T4D/PV-E and T7D/PV-E are the new moulded-case switch disconnectors for PV applications up to 1500V: two frame sizes to fit all the needs.

Tmax PV/E switch-disconnectors in compliance with the IEC60947-3

	T4D/PV-E	T7D/PV-E
Conventional thermal current, Ith [A]	250	1250-1600
Rated service current in category DC22 B, Ie [A]	250	1250-1600
Rated service voltage, Ue [V]	1500 V DC	1500 V DC
Rated impulse withstand voltage, Uimp [kV]	8	8
Rated insulation voltage, Ui [V]	1500 V DC	1500 V DC
Versions	F	F
Terminals	F	F

ABB SACE
A division of ABB S.p.A.

L.V. Breakers
Via Baioni, 35
24123 Bergamo
Phone: +39 035 395.111
Fax: +39 035 395.306-433

www.abb.com

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