

Test disconnect terminal block - PTVME 6/S - 1164788

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Test disconnect terminal block, nom. voltage: 1000 V, nominal current: 30 A, connection method: Push-in connection, Rated cross section: 6 mm², cross section: 0.5 mm² - 6 mm², color: gray

Your advantages

- ✓ Increased safety with 1,000 V nominal voltage
- ✓ The compact design allows an overall width the same as screw terminal blocks
- ✓ Quick and easy actuation with the screw-free disconnect slide
- ✓ Clearly visible and readily apparent switching state
- ✓ Use of CLIPLINE complete standard accessories

RoHS

Key Commercial Data

Packing unit	1 pc
Minimum order quantity	50 pc
GTIN	 4 063151 179403
GTIN	4063151179403
Custom tariff number	85369010
Country of origin	China

Technical data

General

Number of rows	1
Number of connections	2
Potentials	1
Nominal cross section	6 mm ²
Color	gray

Test disconnect terminal block - PTVME 6/S - 1164788

Technical data

General

Insulating material	PA
Flammability rating according to UL 94	V0
Mounting type	NS 35/15
Rated surge voltage	8 kV
Degree of pollution	3
Overvoltage category	III
Insulating material group	I
Maximum load current	30 A (with 6 mm ² conductor cross section)
Nominal current I _N	30 A (with 6 mm ² conductor cross section)
Nominal voltage U _N	1000 V
Open side panel	Yes
Shock protection test specification	DIN EN 50274 (VDE 0660-514):2002-11
Back of the hand protection	guaranteed
Finger protection	guaranteed
Result of surge voltage test	Test passed
Surge voltage test setpoint	9.8 kV
Result of power-frequency withstand voltage test	Test passed
Power frequency withstand voltage setpoint	2.2 kV
Result of the test for mechanical stability of terminal points (5 x conductor connection)	Test passed
Result of flexion and pull-out test	Test passed
Bending test rotation speed	10 rpm
Bending test turns	135
Bending test conductor cross section/weight	0.5 mm ² / 0.3 kg
	6 mm ² / 1.4 kg
Tensile test result	Test passed
Conductor cross section tensile test	0.5 mm ²
Tractive force setpoint	20 N
Conductor cross section tensile test	6 mm ²
Tractive force setpoint	80 N
Result of voltage-drop test	Test passed
Requirements, voltage drop	$U_1 \leq 3.2 \text{ mV}$; $U_2 \leq 1.5 \times U_1$
Result of temperature-rise test	Test passed
Requirement temperature-rise test	Increase in temperature $\leq 45 \text{ K}$
Short circuit stability result	Test passed
Conductor cross section short circuit testing	4 mm ²
Short-time current	0.5 kA

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Technical data

General

Conductor cross section short circuit testing	4 mm ²
Short-time current	0.15 kA
Conductor cross section short circuit testing	4 mm ²
Short-time current	1.25 kA
Result of thermal test	Test passed
Proof of thermal characteristics (needle flame) effective duration	30 s
Result of aging test	Test passed
Oscillation, broadband noise test result	Test passed
Test specification, oscillation, broadband noise	DIN EN 50155 (VDE 0115-200):2018-05
Test spectrum	Service life test category 2, bogie-mounted
Test frequency	f ₁ = 5 Hz to f ₂ = 250 Hz
ASD level	6.12 (m/s ²)/Hz
Acceleration	3.12g
Test duration per axis	5 h
Test directions	X-, Y- and Z-axis
Shock test result	Test passed
Shock form	Half-sine
Acceleration	30g
Shock duration	18 ms
Number of shocks per direction	3
Test directions	X-, Y- and Z-axis (pos. and neg.)
Relative insulation material temperature index (Elec., UL 746 B)	130 °C
Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21))	130 °C
Static insulating material application in cold	-60 °C
Surface flammability NFPA 130 (ASTM E 162)	passed
Specific optical density of smoke NFPA 130 (ASTM E 662)	passed
Calorimetric heat release NFPA 130 (ASTM E 1354)	28 MJ/kg
Smoke gas toxicity NFPA 130 (SMP 800C)	passed
Fire protection for rail vehicles (DIN EN 45545-2) R22	HL 1 - HL 3
Fire protection for rail vehicles (DIN EN 45545-2) R23	HL 1 - HL 3
Fire protection for rail vehicles (DIN EN 45545-2) R24	HL 1 - HL 3
Fire protection for rail vehicles (DIN EN 45545-2) R26	HL 1 - HL 3

Dimensions

Width	8.2 mm
End cover width	2.2 mm
Length	82 mm
Height NS 35/7,5	54.5 mm

Test disconnect terminal block - PTVME 6/S - 1164788

Technical data

Dimensions

Height NS 35/15	62 mm
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Connection data

Connection method	Push-in connection
Stripping length	10 mm ... 12 mm
Connection in acc. with standard	IEC 60947-7-1
Conductor cross section solid min.	0.5 mm ²
Conductor cross section solid max.	6 mm ²
Conductor cross section AWG min.	20
Conductor cross section AWG max.	10
Conductor cross section flexible min.	0.5 mm ²
Conductor cross section flexible max.	6 mm ²
Min. AWG conductor cross section, flexible	20
Max. AWG conductor cross section, flexible	10
Conductor cross section flexible, with ferrule without plastic sleeve min.	0.5 mm ²
Conductor cross section flexible, with ferrule without plastic sleeve max.	6 mm ² Connection only with corresponding crimp versions.
Conductor cross section flexible, with ferrule with plastic sleeve min.	0.5 mm ²
Conductor cross section flexible, with ferrule with plastic sleeve max.	6 mm ² Connection only with corresponding crimp versions.
Two conductors with the same cross section, flexible, with TWIN ferrules, with plastic sleeve, minimum	0.5 mm ²
Two conductors with the same cross section, flexible, with TWIN ferrules, with plastic sleeve, maximum	1.5 mm ²
Connection cross sections directly pluggable	0.75 mm ² 6 mm ²
Conductor cross section solid min.	0.75 mm ²
Conductor cross section solid max.	6 mm ²
Conductor cross section flexible, with ferrule without plastic sleeve min.	1.5 mm ²
Conductor cross section flexible, with ferrule without plastic sleeve max.	6 mm ² Connection only with corresponding crimp versions.
Conductor cross section flexible, with ferrule with plastic sleeve min.	1 mm ²
Conductor cross section flexible, with ferrule with plastic sleeve max.	6 mm ² Connection only with corresponding crimp versions.
Internal cylindrical gage	A4
	B4

Ambient conditions

Operating temperature	-60 °C ... 105 °C (max. short-term operating temperature RTI Elec.)
Ambient temperature (storage/transport)	-25 °C ... 60 °C (for a short time, not exceeding 24 h, -60 °C to +70 °C)
Permissible humidity (storage/transport)	30 % ... 70 %
Ambient temperature (assembly)	-5 °C ... 70 °C
Ambient temperature (actuation)	-5 °C ... 70 °C

Standards and Regulations

Test disconnect terminal block - PTVME 6/S - 1164788

Technical data

Standards and Regulations

Connection in acc. with standard	IEC 60947-7-1
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Test disconnect terminal block - PTVME 6/S-P - 1166809

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Your advantages

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RoHS

Key Commercial Data

Packing unit	1 pc
Minimum order quantity	50 pc
GTIN	 4 063151 183530
GTIN	4063151183530
Custom tariff number	85369010
Country of origin	China

Technical data

General

Number of rows	1
Number of connections	2
Potentials	1
Nominal cross section	6 mm ²
Color	gray

Test disconnect terminal block - PTVME 6/S-P - 1166809

Technical data

General

Insulating material	PA
Flammability rating according to UL 94	V0
Mounting type	NS 35/15
Rated surge voltage	8 kV
Degree of pollution	3
Overvoltage category	III
Insulating material group	I
Maximum load current	30 A (with 6 mm ² conductor cross section)
Nominal current I _N	30 A (with 6 mm ² conductor cross section)
Nominal voltage U _N	1000 V
Open side panel	Yes
Shock protection test specification	DIN EN 50274 (VDE 0660-514):2002-11
Back of the hand protection	guaranteed
Finger protection	guaranteed
Result of surge voltage test	Test passed
Surge voltage test setpoint	9.8 kV
Result of power-frequency withstand voltage test	Test passed
Power frequency withstand voltage setpoint	2.2 kV
Result of the test for mechanical stability of terminal points (5 x conductor connection)	Test passed
Result of flexion and pull-out test	Test passed
Bending test rotation speed	10 rpm
Bending test turns	135
Bending test conductor cross section/weight	0.5 mm ² / 0.3 kg
	6 mm ² / 1.4 kg
Tensile test result	Test passed
Conductor cross section tensile test	0.5 mm ²
Tractive force setpoint	20 N
Conductor cross section tensile test	6 mm ²
Tractive force setpoint	80 N
Result of tight fit on support	Test passed
Result of voltage-drop test	Test passed
Requirements, voltage drop	U ₁ ≤ 3.2 mV; U ₂ ≤ 1.5 x U ₁
Result of temperature-rise test	Test passed
Requirement temperature-rise test	Increase in temperature ≤ 45 K
Short circuit stability result	Test passed
Conductor cross section short circuit testing	4 mm ²

Test disconnect terminal block - PTVME 6/S-P - 1166809

Technical data

General

Short-time current	0.5 kA
Conductor cross section short circuit testing	4 mm ²
Short-time current	0.15 kA
Conductor cross section short circuit testing	4 mm ²
Short-time current	1.25 kA
Result of thermal test	Test passed
Proof of thermal characteristics (needle flame) effective duration	30 s
Result of aging test	Test passed
Ageing test for screwless modular terminal block temperature cycles	192
Oscillation, broadband noise test result	Test passed
Test specification, oscillation, broadband noise	DIN EN 50155 (VDE 0115-200):2018-05
Test spectrum	Service life test category 2, bogie-mounted
Test frequency	$f_1 = 5 \text{ Hz}$ to $f_2 = 250 \text{ Hz}$
ASD level	6.12 (m/s ²) ² /Hz
Acceleration	3.12g
Test duration per axis	5 h
Test directions	X-, Y- and Z-axis
Shock test result	Test passed
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Dimensions

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Conductor cross section solid max.	6 mm ²
Conductor cross section AWG min.	20
Conductor cross section AWG max.	10
Conductor cross section flexible min.	0.5 mm ²
Conductor cross section flexible max.	6 mm ²
Min. AWG conductor cross section, flexible	20
Max. AWG conductor cross section, flexible	10
Conductor cross section flexible, with ferrule without plastic sleeve min.	0.5 mm ²
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Conductor cross section flexible, with ferrule with plastic sleeve min.	1 mm ²
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Ambient temperature (assembly)	-5 °C ... 70 °C

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Technical data

Ambient conditions

Ambient temperature (actuation)	-5 °C ... 70 °C
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Standards and Regulations

Connection in acc. with standard	IEC 60947-7-1
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