

TMK 2200 Low-floor Tramcar





The state-of-the-art concept, 300 mm entrance height, air-conditioning, ergonomic seats and panoramic glazing together with fine-tuned hydraulic suspension and rubber cushioned wheels provide a comfortable ride. The car body is articulated, made of five-part welded steel construction with three powered bogies. Three-phase asynchronous motors, driven by IGBT inverters, enable a maximum speed of 70 km/h. The main vehicle control unit connected by modern communication protocols to vehicle subsystems (converters, brakes, suspension, doors and air conditioning) together with the ergonomically shaped and air conditioned driver's cabin ensures a comfortable and userfriendly working environment for the driver.

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TMK 2200 Low-floor Tramcar

Vehicle Type	100% low-floor articulated one-directional tramcar
Rail Gauge	1.000 mm
Max. Speed	70 km/h
Overhead Contact Line Voltage	DC 600 (+20 %, -30 %)
Car Body Lenght	32 m
Car Body Width	2,3 m
Car Body Height, ARL	3,4 m
Floor Height, ARL	350 mm
Entrance Height, ARL	300 mm
Passenger Seats	41
Standees	161 (4 pass/m²)
Wheel Diameter New/Worn	660 / 605 mm

Traction Converter PGP-130

 Pulse width modulated three-phase voltage IGBT inverter

 Regulation, control, measuring, sequencing and communication functions

 related to the car section (bogie)

 Rated Input Voltage
 DC 600 V (+20 %, -30 %)

 Pated Output Current
 2x220 Arms 52 Hz

nateu Output Current	37320 AITIS, 30 HZ
Protection Class	IP 54
Ambient Temperature	-25°C to +40°C
Cooling	Forced with air

Auxiliary Static Converters	Static IGBT technology
Rated Input Voltage	DC 600 V, +20% / -30%
Protection Class	IP 54
Ambient Temperature	-25°C to +40°C
Cooling	Forced with air
PPB-35	
Three-phase Output	3x400 V, 50 Hz, 20 kVA
Single-phase Output	1x230 V, 50 Hz, 2.2 kVA
DC Output	24 V, 400 A
PP-25	
Three-phase Output	3x400 V, 50 Hz, 25 kVA

Vehicle Control Unit VCU/TMK 2200

Supports control, regulation, measuring, sequencing, protection, supervision and communication tasks within the whole car

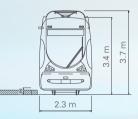
Redundant configuration (two identical channels)

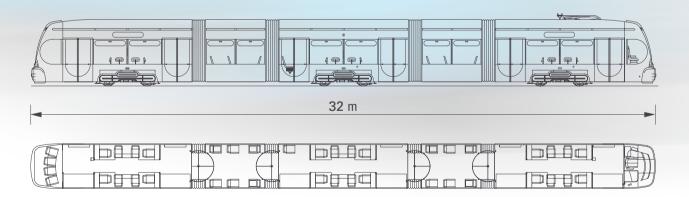
Communication with intelligent units distributed in the car through CAN communication channel

Additional CAN channel for communication with electric drives and redundancy

Remote diagnostic functions for all intelligent nodes of the tramcar

Bogie	
Traction Motors/	
Power	2 three-phase
	asynchronous
	motors / 85 kW
Primary Suspension	Hydraulic
Secondary Suspension Hydraulic	
Brakes	Electric, Hydraulic,
	Track







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