

TPD32-EV DC ARMATURE CONVERTERS

Wide supply
configuration, **high**
precision and
integrated system
technology

Industrial Motors

Commercial &
Appliance Motors

Automation

Digital &
Systems

Energy

Transmission &
Distribution

Coatings



Driving efficiency and sustainability





S U M M A R Y

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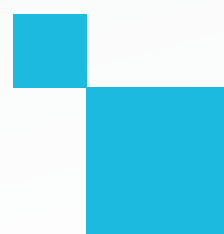
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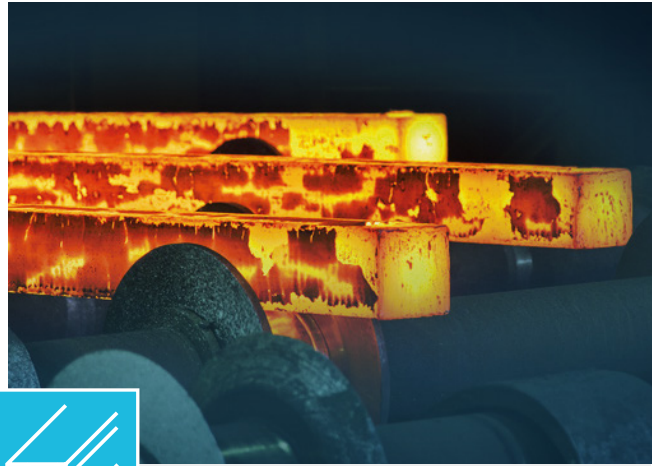




Applications



Industrial hoisting



Metal processing



Test benches



Plastic and rubber processing



Lifts for mines



Amusement parks

Description



Series TPD32 EV -...-2B/4B

TPD32-EV DC drive series is a product of the ever growing technological demands of modern industrial systems, and draws on WEG's years of experience in the field of DC motor speed control. This is available in a wide range of motor power ratings and power supply types and it offers solutions for both 2 quadrant and 4 quadrant operation and system solution as 12 pulses parallel and series configuration. Designed to minimize user system requirements, this range offers a range of functions and dedicated application packages to cover the most complex requirements of modern industrial automation systems.



Series TPD32 EV-CU

Regulation control units are ideal for controlling the full range of external power bridges available on the market. The regulation control unit implements all the control systems required of an armature converter, including snubber filters, field regulator, regulation card, for simple, immediate power structure customisation.



Series TPD32 EV-FC

Series of converters designed to supply highly inductive loads such as electromagnets, chokes, synchronous motor excitation circuits, galvanic applications, etc.

Power ratings

	TPD32 EV-500/...	TPD32 EV-575/...	TPD32 EV-690/...
2 quadrant	(...-2B): from 20 A up to 3,300 A	(...-2B): from 280 A up to 2,300 A	(...-2B): from 560 A up to 3,300 A
4 quadrant	(...-4B): from 20 A up to 3,300 A	(...-4B): from 280 A up to 2,300 A	(...-4B): from 560 A up to 3,300 A

Three-phase power circuit (U/V/W)

TPD32 EV-500/...

- 230 V ac ±10%, 50/60 Hz ±5%
- 400 V ac ±10%, 50/60 Hz ±5%
- 440 V ac ±10%, 50/60 Hz ±5%
- 460 V ac ±10%, 50/60 Hz ±5%
- 480 V ac ±10%, 50/60 Hz ±5%
- 500 V ac ±10%, 50/60 Hz ±5%
- 2 quadrant (...-2B): from 20 A up to 3,300 A
- 4 quadrant (...-4B): from 20 A up to 3,300 A

TPD32 EV-575/...

- 400 V ac ±10%, 50/60 Hz ±5%
- 440 V ac ±10%, 50/60 Hz ±5%
- 460 V ac ±10%, 50/60 Hz ±5%
- 480 V ac ±10%, 50/60 Hz ±5%
- 500 V ac ±10%, 50/60 Hz ±5%
- 575 V ac ±10%, 50/60 Hz ±5%
- 2 quadrant (...-2B): from 280 A up to 2,300 A
- 4 quadrant (...-4B): from 280 A up to 2,300 A

TPD32 EV-690/...

- 400 V ac ±10%, 50/60 Hz ±5%
- 440 V ac ±10%, 50/60 Hz ±5%
- 460 V ac ±10%, 50/60 Hz ±5%
- 480 V ac ±10%, 50/60 Hz ±5%
- 500 V ac ±10%, 50/60 Hz ±5%
- 575 V ac ±10%, 50/60 Hz ±5%
- 690 V ac ±10%, 50/60 Hz ±5%
- 2 quadrant (...-2B): from 560 A up to 3,300 A
- 4 quadrant (...-4B): from 560 A up to 3,300 A

TPD32 EV-CU-230/500-...

- 230 V ac...500 V ac ±10%, 50/60 Hz ±5%

TPD32 EV-FC-200/...

- 60 V ac...200 V ac ±10%, 50/60 Hz ±5%

TPD32 EV-CU-575/690-...

- 575 V ac...690 V ac ±10%, 50/60 Hz ±5%

TPD32 EV-FC-500/...

- 230 V ac...500 V ac ±10%, 50/60 Hz ±5%

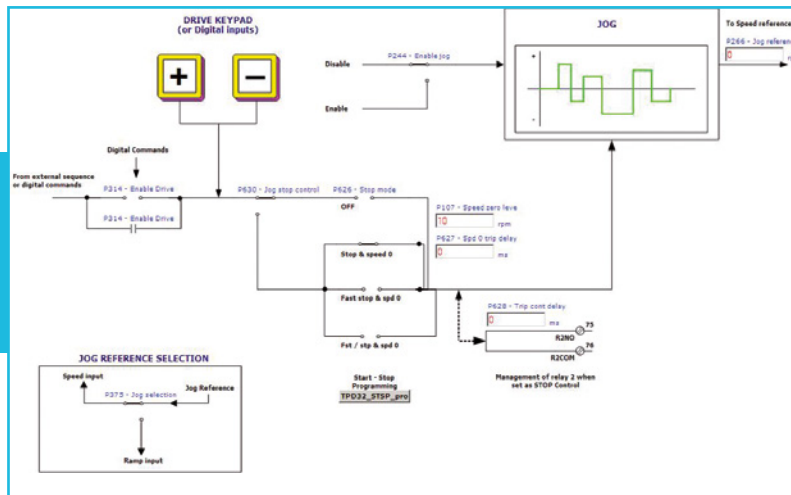
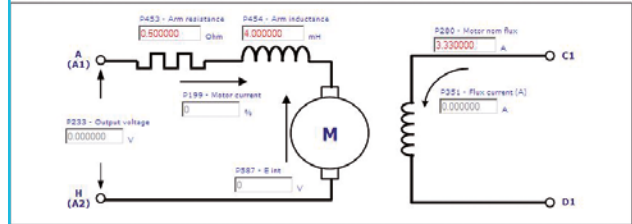
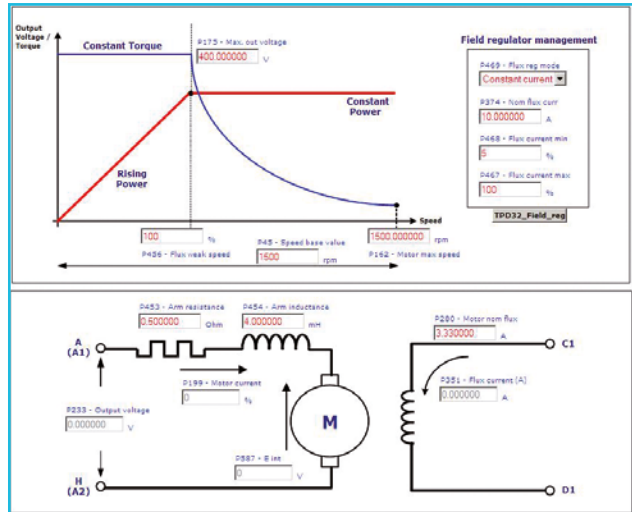
Single-phase field circuit (U1/V1)

- 230 V ac ±10%, 50/60 Hz ±5%
- 400 V ac ±10%, 50/60 Hz ±5%
- 460 V ac ±10%, 50/60 Hz ±5%

Single-phase regulation circuit (U2/V2)

- 115 V ac ±15%, 50/60 Hz ±5%
- 230 V ac ±15%, 50/60 Hz ±5%

Software



WEG_eXpress programming software

The AC/DC converter series TPD32-EV can be programmed via PC using the WEG_eXpress configurator. This PC tool enables complete programming and control of the product, based on a powerful, user-friendly and intuitive software platform:

- Programming with parameter list or block diagrams
- Integrated oscilloscope
- Multi-drop network management with up to 32 drives



General characteristics

Wide range of power supplies

A single product for all power supply types, from 230 V ac to 690 V ac

Serial communication

For programming with PC, the RS485 serial line with Modbus-RTU protocol is standard on the TPD32-EV

Fieldbus cards (optional)

Interfacing with the most commonly-used fieldbus systems:

- Profibus-DP (SBI-PDP-32)
- CANopen (SBI-COP)
- DeviceNet (SBI-DN)

TBO-32 - I/O expansion card

Converter standard input/output expansion card:

- 4 digital inputs (+15 V dc...+30 V dc: 3...6 mA)
- 4 digital outputs (+15 V dc...+30 V dc, max 50 mA)
- 2 analog outputs (± 10 V, max 5 mA)



Programming keypad

The optional KB-TPD32-EV programming keypad featuring full display of parameters and variables makes the converter extremely intuitive and easy to use

Field regulator

Integrated field regulator on all the range, 1ph supply: 230 V ac...460 V ac, 50/60 Hz, rated currents from 10 to 70 A

Overload

Programmable up to 200% with dedicated firmware function

General characteristics

Standard supply configuration	<ul style="list-style-type: none"> - Speed feedback via tachogenerator and/or digital or sinusoidal¹⁾ encoder - 2 encoder inputs: sinusoidal (power supply at 5 V) and digital (power supply at 5 V or 24 V) - 1 tachogenerator input - Digital I/O logic control in PNP configuration - Analog inputs: 3 Differential, 12 Bits, programmable, selectable for ±10 V dc, 0-20 mA, 0-10 V dc, 4-20 mA - 2 analog outputs ±10 V dc - 8 digital inputs (4 fixed + programmable) - 4 programmable digital outputs - Relay outputs: 1 drive OK normally closed contact, 1 programmable normally closed contact - 1 motor thermistor input - RS485 serial line (Modbus-RTU protocol) - Programmable overload up to 200% - Interfacing with fieldbus protocol as: Profibus-DP®, CANopen® and DeviceNet - LED diagnostics module
Precision	Speed control <ul style="list-style-type: none"> - with sinusoidal encoder: typically 0.01% - with digital encoder: typically 0.02% - with tachogenerator: typically 0.1%
	Torque regulation: <ul style="list-style-type: none"> - typical 0.2%
	Analog inputs/outputs: <ul style="list-style-type: none"> - 11 bit + sign
Integrated system technology	<ul style="list-style-type: none"> - Quick start up; autotuning of the speed and current¹⁾ regulators; 5 independent programmable multi-ramps; programmable linear and "S" shaped ramps; seven programmable multispeeds; independent regulation of the min/max speed for each direction sense of rotation. - Current limitation in accordance with the speed; adaptive gains of the speed regulator; independent management of the integral gain at zero speed; programmable overload control; Jog function; Motorpotentiometer function; I2t motor protection. - PID function block; Servodiameter control function; "Speed Draw" function; "Autocapture" function (Flying restart); "Droop" function, SCR test function
	<ul style="list-style-type: none"> - Programming keypad KB - I/O expansion card TB0-32 - Profibus interface SBI-PDP-32 - DeviceNet interface SBI-DN - CANopen interface SBI-COP - Programmable APC300 application card with Master CAN I/O controller and integrated Fast Link Drive to Drive communication
Options	<ul style="list-style-type: none"> - Programming keypad KB - I/O expansion card TB0-32 - Profibus interface SBI-PDP-32 - DeviceNet interface SBI-DN - CANopen interface SBI-COP - Programmable APC300 application card with Master CAN I/O controller and integrated Fast Link Drive to Drive communication
Accessories	<ul style="list-style-type: none"> - Dedicated EMC filters (in accordance with EN 61800-3) - Input choke (standardised for the whole line) - Programming remote keypad kit with 2 meters of cable included - RS485 serial line kit for direct PC communication
Environmental conditions	<ul style="list-style-type: none"> - Protection degree: IP20 up to 1,000 A (...-2B) and 1,050 A (...-4B), IP20/IP00 for bigger powers - Operating temperature: from 0 °C to 40 °C, from + 40 °C to +50 °C with derating - Storage temperature: -25 °C...+55 °C (Class 1K4 – EN 50178) - Humidity: from 5% to 85%, relative humidity (without condensation) or ice formation (Class 3K3 under EN 50178) - Altitude: max 2,000 metres above sea level; above 1,000 metres the current must be reduced by 1.2% per 100 metre increase
Standards and marks	CE: complies with the EC directive concerning low voltage equipment (Directives LVD 2014/35/EU, EMC 2014/30/EU, RoHS 2011/65/EU)
	UL, cUL: complies with directives for the American and Canadian market (TPD32 EV -...-NA ¹⁾ and TPD32 EV-FC series). TPD32 EV -...-E-NA series not included.
	EMC: complies with the EC directive - EN 61800-3 concerning electromagnetic compatibility with the use of optional filters

Note: 1) Except the TPD32-EV -FC-... series.



Converter selection - Input and output data

TPD32 EV-...

TPD32 EV Standard sizes	TPD32 EV-...-NA American sizes	2 quadrant: 2B	4 quadrant: 4B	Frame	U _{in} AC input voltage			Input frequency	I _{dn} rated output current Standard sizes	I _{dn} rated output current American sizes ¹⁾	I _{ovld} output current overload	U _{dn} DC output voltage						AC input voltage for field circuit	U _{fn} DC field voltage ¹⁾ (0.85 U _{in})	I _{fn} field current @40 °C	AC input voltage of regulation part
					TPD32 EV-500	TPD32 EV-575	TPD32 EV-690					TPD32 EV-500		TPD32 EV-575		TPD32 EV-690					
					230...500 V ac ±10%, 3ph	230...575 V ac ±10%, 3ph	230...690 V ac ±10%, 3ph					2B	4B	2B	4B	2B	4B				
20	17	•	•	A1	•			20	17	I _{dn} programmable up to 200%	600 V dc	520 V dc	680 V dc	600 V dc	810 V dc	720 V dc	230 V ac ±15% or 400 V ac ±15% or 460 V ac ±10%, single-phase, 50/60 Hz ±5%	Fixed or adjustable: 200 V dc (for 230 V ac) or 310 V dc (for 400 V ac) or 360 V dc (for 460 V ac)	115 V ac ±15% or 230 V ac ±15%, single-phase, 50/60 Hz ±5%	10	
40	35	•	•	A1	•			40	35											10	
70	56	•	•	A2	•			70	56											10	
110	88	•	•	A3	•			110	88											14	
140	112	•	•	A3	•			140	112											14	
185	148	•	•	A3	•			185	148											14	
280	224	•	•	B1	•	•		280	224											20	
350	280	•	•	B1	•	•		350	280											20	
420	336	•	•	B1	•	•		420	336											20	
500	400	•	•	B1	•	•		500	400											20	
560	360	•	•	C			•	560	360											25	
650	450	•	•	B2	•	•		650	450											20	
700	490	•	•	C		•	•	700	490											25	
770	560	•	•	C	•			770	560											25	
900	650	•	•	C			•	900	650											25	
1000	750	•		C		•		1,000	750											25	
1050	750		•	C		•		1,050	750											25	
1000	800	•		C	•			1,000	800											25	
1050	850		•	C	•			1,050	850											25	
1300	920		•	D			•	1,300	920											40	
1300	980		•	D		•	•	1,300	980											40	
1300	980	•		D		•		1,300	980											40	
1400	1000	•	•	D	•			1,400	1,000											40	
1600	1200	•	•	D	•	•	•	1,600	1,200											40	
1900	1450	•	•	D			•	1,900	1,450											40	
2000	1500	•	•	D	•	•		2,000	1,500											40	
2100	1650	•	•	D			•	2,100	1,650											70	
2300	1800	•	•	D		•		2,300	1,800											70	
2400	1850	•	•	D	•			2,400	1,850	70											

Note: 1) 150% overload factory settings.

Converter selection - Input and output data

TPD32 EV-.../...-...-...External bridge

TPD32 EV Standard sizes	TPD32 EV-...-NA American sizes	2 quadrant: 2B	4 quadrant: 4B	Frame	U _{in} AC input Voltage		Input Frequency	I _{dn} rated output current Standard sizes	I _{dn} rated output current American sizes ¹⁾	I _{ovld} output current overload	U _{dn} DC output voltage				AC Input voltage for field circuit	U _{fn} DC field voltage ¹⁾ (0.85 U _{in})	I _{fn} field current @40 °C	AC Input voltage of regulation part
					TPD32 EV-500	TPD32 EV-690					TPD32 EV-500		TPD32 EV-690					
					[V ac]	[V ac]					2B	4B	2B	4B				
1200	1000	•		E	230 V ac...500 V ac ±10%, 3-phase		50/60 Hz ±5%	1,200	1,000	I _{dn} programmable up to 200%	600 V dc	520 V dc	230 V ac ±15% or 460 V ac ±10%, single-phase, 50/60 Hz ±5%	Fixed or adjustable: 200 V dc (for 230 V ac) or 310 V dc (for 400 V ac) or 360 V dc (for 460 V ac)	40	115 V ac ±15% or 230 V ac ±15%, single-phase, 50/60 Hz ±5%		
1500	1300	•	•	E				1,500	1,300									
1700	1350		•	E				1,700	1,350									
1800	1400	•		E				1,800	1,400									
2000	1500	•	•	E				2,000	1,500									
2400	1800	•	•	E				2,400	1,800									
2700	2000	•	•	E				2,700	2,000									
2900	2200	•		E				2,900	2,200									
3300	2350	•	•	E				3,300	2,350									
1010	900	•	•	E				230 V ac...690 V ac ±10%, 3-phase			1,010	900						810 V dc
1400	1150	•	•	E	1,400	1,150												
1700	1350	•	•	E	1,700	1,350												
2000	1500	•	•	E	2,000	1,500												
2400	1800	•	•	E	2,400	1,800												
2700	2000	•	•	E	2,700	2,000												
3300	2350	•	•	E	3,300	2,350												

Note: 1) 150% overload factory settings.

12 pulses configuration

A 12-impulse version of the converter is also available. This has two 6-impulse bridges with two different configurations: parallel (TPD32-EV -...-12P) or serial (TPD32-EV -...- 12S).

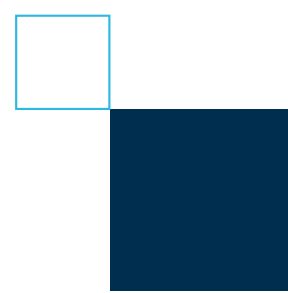
12 pulses PARALLEL configuration

The motor gets the sum of the DC current of two converters. Thus the current is doubled. The power range of the drive is extended by doubling dc drive output current value. Contact WEG Sales office for interbridge reactor calculation.

12 pulses SERIES configuration

The motor gets the sum of the DC voltage of two converters. Thus the voltage is doubled. (For the version powered at 690 V ac, the supply voltage must not exceed 350 V ac). Possibility of emergency operation with one converter in case of a breakdown in the other converter for series configuration (with full torque and with 50% of the former maximum armature voltage). DC voltage range is extended by doubling DC drive output voltage value.

In order to divide symmetrically the total armature voltage in the range of the small armature current or armature current = 0, symmetry resistances must be utilized and connected in parallel to the individual current converters connected in series. The symmetry resistances (R_{sym}) should be dimensioned in such a way that a cross current of at least 100 mA flows at maximum armature voltage.



Converter selection - Input and output data

TPD32 EV-FC - Special converter for inductive loads

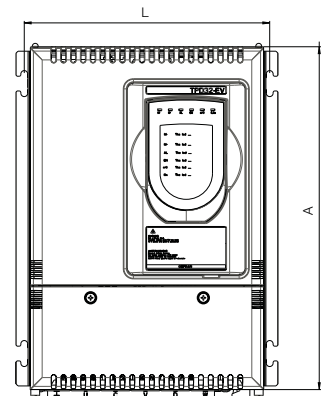
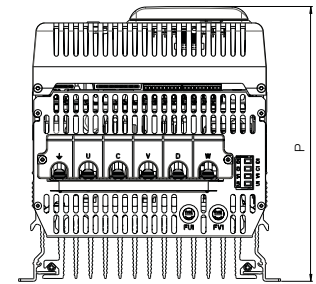
TPD32 EV-FC sizes	2 quadrant: 2B	4 quadrant: 4B	Frame	U _{in} AC input voltage	Input frequency	I _{dn} rated output current standard sizes	I _{ovld} output current overload	U _{dn} DC output voltage		AC input voltage of regulation part
				[V ac]				[Hz]	[A]	
20	•	•	A1	TPD32-EV-FC-200: 60 V ac...200 V ac ±10%, 3-phase TPD32-EV-FC-500/...: 230 V ac...500 V ac ±10%, 3-phase	50/60 Hz ±5%	20	I _{dn} Programmable up to 200%	600 V dc	TPD32-EV-FC-200/...: 210 V dc TPD32-EV-FC-500/...: 520 V dc	115 V ac ±15% or 230 V ac ±15%, single-phase, 50/60 Hz ±5%
40	•	•	A1							
70	•	•	A2							
110	•	•	A3							
140	•	•	A3							
185	•	•	A3							
280	•	•	B1							
350	•	•	B1							
420	•	•	B1							
500	•	•	B1							
650	•	•	B2							

TPD32 EV -CU - External bridge control unit

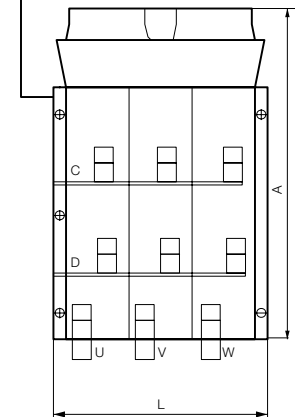
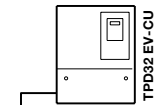
TPD32-EV-CU sizes	2 quadrant/4 quadrant	Frame	U _{in} AC input voltage	Input frequency	I _{dn} rated output current (selectable)	I _{ovld} Output current overload	U _{dn} DC output voltage	AC input voltage for field circuit	U _{fn} DC field voltage (0.85 * U _{in})	I _{fn} field current @40 °C	AC input voltage of regulation part						
			[V ac]									[Hz]	[A]	[A]	[V dc]	[V ac]	[V dc]
TPD32-EV-CU-230/500-THY1-40	•	A1	230...500 V ac ±10%, 3-phase	50/60 Hz ±5%	4...20,000 A	Programmable I _{dn} up to 200%	520/600 V dc	230 V ac ±15% or 400 V ac ±15% or 460 V ac ±10%, single-phase, 50/60 Hz ±5%	Fixed or adjustable: 200 V dc (for 230 V ac) or 310 V dc (for 400 V ac) or 360 V dc (for 460 V ac)	40	115 V ac ±15% or 230 V ac ±15%, single-phase, 50/60 Hz ±5%						
TPD32-EV-CU-230/500-THY2-40	•	A1															
TPD32-EV-CU-230/500-THY1-70	•	A1															
TPD32-EV-CU-230/500-THY2-70	•	A1															
TPD32-EV-CU-575/690-THY1-40	•	A1	575...690 V ac ±10%, 3-phase				50/60 Hz ±5%			4...20,000 A		Programmable I _{dn} up to 200%	720/810 V dc	230 V ac ±15% or 400 V ac ±15% or 460 V ac ±10%, single-phase, 50/60 Hz ±5%	Fixed or adjustable: 200 V dc (for 230 V ac) or 310 V dc (for 400 V ac) or 360 V dc (for 460 V ac)	40	115 V ac ±15% or 230 V ac ±15%, single-phase, 50/60 Hz ±5%
TPD32-EV-CU-575/690-THY2-40	•	A1															
TPD32-EV-CU-575/690-THY1-70	•	A1															
TPD32-EV-CU-575/690-THY2-70	•	A1															

Dimensions and weights

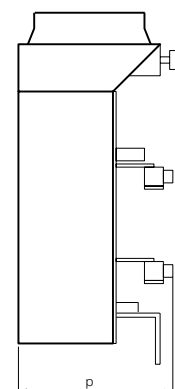
TPD32 EV standard sizes	TPD32 EV-...-NA standard sizes	Frame	Dimensions: W x H x d (mm)	Weight (kg)
TPD32-EV-.../...-20-...-A	TPD32-EV-.../...-17-...-A-NA	A1	267 x 349 x 280	11
TPD32-EV-.../...-40-...-A	TPD32-EV-.../...-35-...-A-NA	A2		11.5
TPD32-EV-.../...-70-...-A	TPD32-EV-.../...-56-...-A-NA	A3	267 x 349 x 280	12
TPD32-EV-.../...-110-...-A	TPD32-EV-.../...-88-...-A-NA			12
TPD32-EV-.../...-140-...-A	TPD32-EV-.../...-112-...-A-NA	B1	311 x 388 x 343.6	26
TPD32-EV-.../...-185-...-A	TPD32-EV-.../...-148-...-A-NA			26
TPD32-EV-.../...-280-...-B	TPD32-EV-.../...-224-...-B-NA			26
TPD32-EV-.../...-350-...-B	TPD32-EV-.../...-280-...-B-NA	B2	311 x 388 x 373.6	32
TPD32-EV-.../...-420-...-B	TPD32-EV-.../...-336-...-B-NA			32
TPD32-EV-.../...-500-...-B	TPD32-EV-.../...-400-...-B-NA			32
TPD32-EV-.../...-650-...-B	TPD32-EV-.../...-450-...-B-NA	C	521 x 512 x 410	61
TPD32-EV-.../...-560-...-C	TPD32-EV-.../...-360-...-C-NA			65
TPD32-EV-.../...-700-...-C	TPD32-EV-.../...-490-...-C-NA			72
TPD32-EV-.../...-770-...-C	TPD32-EV-.../...-560-...-C-NA			72
TPD32-EV-.../...-900-...-C	TPD32-EV-.../...-650-...-C-NA	D	704 x 1,435 x 536	152 (2B) 203 (4B)
TPD32-EV-.../...-1000-...-C	TPD32-EV-575/...-750-...-C-NA			165 (2B) 215 (4B)
TPD32-EV-.../...-1050-...-C	TPD32-EV-500/...-800-...-C-NA TPD32-EV-500/...-850-...-C-NA			
TPD32-EV-...-D/...-1300-...-D	TPD32-EV-.../...-920-...-D-NA	D	704 x 1,435 x 536	191 (2B) 241 (4B)
TPD32-EV-...-D/...-1300-...-D	TPD32-EV-575/...-980-...-D-NA			
TPD32-EV-...-D/...-1400-...-D	TPD32-EV-.../...-1000-...-D-NA			
TPD32-EV-...-D/...-1600-...-D	TPD32-EV-.../...-1200-...-D-NA			
TPD32-EV-...-D/...-1900-...-D	TPD32-EV-.../...-1450-...-D-NA			
TPD32-EV-...-D/...-2000-...-D	TPD32-EV-.../...-1500-...-D-NA			
TPD32-EV-...-D/...-2100-...-D	TPD32-EV-.../...-1650-...-D-NA			
TPD32-EV-...-D/...-2300-...-D	TPD32-EV-.../...-1800-...-D-NA			
TPD32-EV-...-D/...-2400-...-D	TPD32-EV-.../...-1850-...-D-NA			



TPD32 EV-CU	Frame	Dimensions: W x H x d (mm)	Weight (kg)
TPD32-EV-CU-.../...-THY1-40	A1	267 x 349 x 280	11
TPD32-EV-CU-.../...-THY2-40			
TPD32-EV-CU-.../...-THY1-70			
TPD32-EV-CU-.../...-THY2-70			



TPD32-EV external bridge	Frame	Dimensions: W x H x d (mm)	Weight (kg)
TPD32 EV-690/840-1010-2B-E	E	500 x 760 x 275	70
TPD32 EV-500/600-1200-2B-E		500 x 570 x 275	65
TPD32 EV-690/840-1400-2B-E		500 x 760 x 275	70
TPD32 EV-500/600-1500-2B-E		500 x 760 x 275	70
TPD32 EV-690/840-1700-2B-E		620 x 764 x 360	100
TPD32 EV-500/600-1800-2B-E		500 x 760 x 275	70
TPD32 EV-500/600-2000-2B-E		500 x 760 x 275	70
TPD32 EV-690/840-2000-2B-E		620 x 764 x 360	100
TPD32 EV-500/600-2400-2B-E		620 x 764 x 360	100
TPD32 EV-690/840-2400-2B-E		712 x 775 x 395	140
TPD32 EV-500/600-2700-2B-E		712 x 785 x 395	140
TPD32 EV-690/840-2700-2B-E		712 x 775 x 395	140
TPD32 EV-500/600-2900-2B-E		712 x 775 x 395	140
TPD32 EV-500/600-3300-2B-E		780 x 1,180 x 420	260
TPD32 EV-690/840-3300-2B-E		780 x 1,180 x 420	260
TPD32 EV-690/720-1010-4B-E		500 x 1,310 x 375	130
TPD32 EV-690/720-1400-4B-E		500 x 1,310 x 375	130
TPD32 EV-500/520-1500-4B-E		500 x 1,310 x 375	130
TPD32 EV-500/520-1700-4B-E		500 x 1,310 x 375	130
TPD32 EV-690/720-1700-4B-E		620 x 1,314 x 475	170
TPD32 EV-500/520-2000-4B-E		500 x 1,310 x 375	130
TPD32 EV-690/720-2000-4B-E		620 x 1,314 x 475	170
TPD32 EV-500/520-2400-4B-E		620 x 1,314 x 495	170
TPD32 EV-690/720-2400-4B-E		712 x 1,335 x 475	240
TPD32 EV-500/520-2700-4B-E		712 x 1,335 x 490	240
TPD32 EV-690/720-2700-4B-E		712 x 1,335 x 475	240
TPD32 EV-.../...-3300-4B-E		780 x 1,890 x 470	435



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is essential, as much
as understanding
your needs.



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www.weg.net



AUTOMATION

 +39 02 967601

 info.motion@weg.net

 Gerenzano (VA) Italy

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The values shown are subject to change without prior notice.
The information contained is reference values.