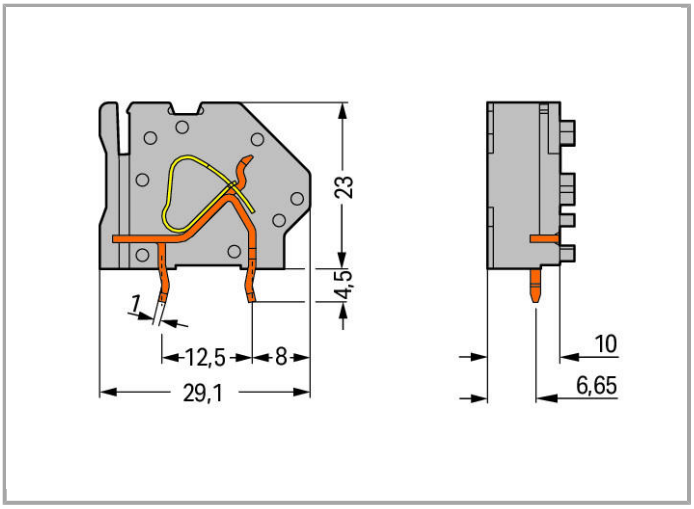
Data sheet | Item number: 745-843

Stackable PCB terminal block; 6 mm²; Pin spacing 10 mm; 1-pole; CAGE CLAMP®; commoning option

www.wago.com/745-843





RoHS ✓ Compliant

BOMcheck.net

Color:

Item description

- Modular PCB terminal blocks with screwdriver-actuated CAGE CLAMP® for custom PCB terminal strip assemblies
- Versions with Ex approval
- Common and distribute potentials via comb-style jumper bars
- Double solder pins for high mechanical stability
- Integrated testing tap
- Marker slot for Mini-WSB markers

Other variants can be requested via the WAGO sales department or, if necessary, configured at https://configurator.wago.com/: Other colors, Versions for Ex e II and Ex i

Data

Electrical data

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Ratings per IEC/EN 60664-1

Rated voltage (III / 3)	630 V
Rated impulse voltage (III / 3)	8 kV
Rated voltage (III / 2)	1000 V
Rated impulse voltage (III / 2)	8 kV
Rated voltage (II / 2)	1000 V
Rated impulse voltage (II / 2)	8 kV
Rated current	41 A
Legend (ratings)	(III / 2) ≙ Overvoltage category III / Pollution degree 2

Approvals per UL 1059

Rated voltage UL (Use Group B)	300 V
Rated current UL (Use Group B)	30 A
Rated voltage UL (Use Group C)	150 V
Rated current UL (Use Group C)	30 A
Rated voltage UL (Use Group D)	300 V
Rated current UL (Use Group D)	10 A

Approvals per CSA

Rated voltage CSA (Use Group B)	300 V
Rated current CSA (Use Group B)	30 A
Rated voltage CSA (Use Group C)	150 V
Rated current CSA (Use Group C)	30 A
Rated voltage CSA (Use Group D)	300 V
Rated current CSA (Use Group D)	10 A

Connection data

Connection technology	CAGE CLAMP®
Actuation type	Operating tool
Solid conductor	0.2 … 6 mm² / 24 … 10 AWG
Fine-stranded conductor	0.2 … 6 mm² / 24 … 10 AWG
Fine-stranded conductor with ferrule with plastic collar	0.25 … 4 mm²
Fine-stranded conductor with ferrule without plastic collar	0.25 … 4 mm²
Strip length	11 … 12 mm / 0.43 … 0.47 Inch
Conductor entry angle to the PCB	45 °
No. of poles	1
Number of levels	1
Total number of connection points	1
Total number of potentials	1

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Number of connection types	1

Geometrical Data

Pin spacing	10 mm (0.394 inch)
Width	11.5 mm / 0.453 inch
Height	27.5 mm / 1.083 inch
Height from the surface	23 mm / 0.906 inch
Depth	29.1 mm / 1.146 inch
Solder pin length	4.5 mm
Solder pin dimensions	1 x 1.4 mm
Drilled hole diameter (tolerance)	$1.8^{(+\,0.1)}$ mm

PCB contact

PCB contact	THT
Solder pin arrangement	within the terminal block, in line
Number of solder pins per potential	2

Material Data

Color	light gray
Material group	I
Insulating material	Polyamide 66 (PA 66)
Flammability class per UL94	V0
Clamping spring material	Chrome nickel spring steel (CrNi)
Contact material	Electrolytic copper (Ecu)
Contact plating	tin-plated
Fire load	0.098 MJ
Weight	5.594 g

Environmental Requirements

Limit temperature range	-60 … +105 °C

Commercial data

Country of origin	PL
GTIN	4044918302708
Product Group	4 (Printed Circuit)

Approvals / Certificates

Country specific Approvals

Logo	Approval	Certificate name

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CCA	**CCA** DEKRA Certification B.V.	NTR NL-7097
KEMA KEUR	**CCA** DEKRA Certification B.V.	2160584.16

Compatible products

General accessories

	**Item no.: 745-338** Spacer; for extending the pin spacing; 2.5 mm thick	www.wago.com/745-338

tools

	**Item no.: 210-721** Operating tool with partially insulated shaft; Type 3, blade (5.5 x 0.8) mm	www.wago.com/210-721

End plate

	**Item no.: 745-300** End plate; snap-fit type; 1.6 mm thick	www.wago.com/745-300
	**Item no.: 745-340** End plate; with flange	www.wago.com/745-340
	**Item no.: 745-345** End plate; with flange	www.wago.com/745-345

check

	**Item no.: 210-136** Test plug; 2 mm Ø; with 500 mm cable	www.wago.com/210-136
	**Item no.: 210-137** Test plug; 2.3 mm Ø; with 500 mm cable	www.wago.com/210-137

ferrule

	**Item no.: 216-101** Ferrule; Sleeve for 0.5 mm² / AWG 22; uninsulated; electro-tin plated	www.wago.com/216-101
	**Item no.: 216-102** Ferrule; Sleeve for 0.75 mm² / AWG 20; uninsulated; electro-tin plated	www.wago.com/216-102
	**Item no.: 216-103** Ferrule; Sleeve for 1 mm² / AWG 18; uninsulated; electro-tin plated	www.wago.com/216-103
	**Item no.: 216-104** Ferrule; Sleeve for 1.5 mm² / AWG 16; uninsulated; electro-tin plated	www.wago.com/216-104

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	**Item no.: 216-106** Ferrule; Sleeve for 2.5 mm² / AWG 14; uninsulated; electro-tin plated	www.wago.com/216-106
	**Item no.: 216-107** Ferrule; Sleeve for 4 mm² / AWG 12; uninsulated; electro-tin plated	www.wago.com/216-107
	**Item no.: 216-121** Ferrule; Sleeve for 0.5 mm² / AWG 22; uninsulated; electro-tin plated	www.wago.com/216-121
	**Item no.: 216-122** Ferrule; Sleeve for 0.75 mm² / AWG 20; uninsulated; electro-tin plated	www.wago.com/216-122
	**Item no.: 216-123** Ferrule; Sleeve for 1 mm² / AWG 18; uninsulated; electro-tin plated	www.wago.com/216-123
	**Item no.: 216-124** Ferrule; Sleeve for 1.5 mm² / AWG 16; uninsulated; electro-tin plated	www.wago.com/216-124
	**Item no.: 216-131** Ferrule; Sleeve for 0.25 mm² / AWG 24; uninsulated; electro-tin plated	www.wago.com/216-131
	**Item no.: 216-132** Ferrule; Sleeve for 0.34 mm² / AWG 24; uninsulated; electro-tin plated	www.wago.com/216-132
	**Item no.: 216-141** Ferrule; Sleeve for 0.5 mm² / AWG 22; uninsulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 1/08.92	www.wago.com/216-141
	**Item no.: 216-142** Ferrule; Sleeve for 0.75 mm² / AWG 20; uninsulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 1/08.92	www.wago.com/216-142
	**Item no.: 216-143** Ferrule; Sleeve for 1 mm² / AWG 18; uninsulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 1/08.92	www.wago.com/216-143
	**Item no.: 216-144** Ferrule; Sleeve for 1.5 mm² / AWG 16; uninsulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 1/08.92	www.wago.com/216-144
	**Item no.: 216-151** Ferrule; Sleeve for 0.25 mm² / AWG 24; uninsulated; electro-tin plated	www.wago.com/216-151
	**Item no.: 216-152** Ferrule; Sleeve for 0.34 mm² / AWG 24; uninsulated; electro-tin plated	www.wago.com/216-152
	**Item no.: 216-201** Ferrule; Sleeve for 0.5 mm² / AWG 22; insulated; electro-tin plated	www.wago.com/216-201
	**Item no.: 216-202** Ferrule; Sleeve for 0.75 mm² / AWG 20; insulated; electro-tin plated	www.wago.com/216-202
	**Item no.: 216-203** Ferrule; Sleeve for 1 mm² / AWG 18; insulated; electro-tin plated	www.wago.com/216-203
	**Item no.: 216-204** Ferrule; Sleeve for 1.5 mm² / AWG 16; insulated; electro-tin plated	www.wago.com/216-204
	**Item no.: 216-205** Ferrule; Sleeve for 2.08 mm² / AWG 14; insulated; electro-tin plated	www.wago.com/216-205

Item no.: 216-206

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	Ferrule; Sleeve for 2.5 mm² / AWG 14; insulated; electro-tin plated	www.wago.com/216-206
	**Item no.: 216-207** Ferrule; Sleeve for 4 mm² / AWG 12; insulated; electro-tin plated	www.wago.com/216-207
	**Item no.: 216-221** Ferrule; Sleeve for 0.5 mm² / AWG 22; insulated; electro-tin plated	www.wago.com/216-221
	**Item no.: 216-222** Ferrule; Sleeve for 0.75 mm² / AWG 20; insulated; electro-tin plated	www.wago.com/216-222
	**Item no.: 216-223** Ferrule; Sleeve for 1 mm² / AWG 18; insulated; electro-tin plated	www.wago.com/216-223
	**Item no.: 216-224** Ferrule; Sleeve for 1.5 mm² / AWG 16; insulated; electro-tin plated	www.wago.com/216-224
	**Item no.: 216-241** Ferrule; Sleeve for 0.5 mm² / AWG 22; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90	www.wago.com/216-241
	**Item no.: 216-242** Ferrule; Sleeve for 0.75 mm² / AWG 20; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90	www.wago.com/216-242
	**Item no.: 216-243** Ferrule; Sleeve for 1 mm² / AWG 18; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90	www.wago.com/216-243
	**Item no.: 216-244** Ferrule; Sleeve for 1.5 mm² / AWG 16; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90	www.wago.com/216-244
	**Item no.: 216-246** Ferrule; Sleeve for 2.5 mm² / AWG 14; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90	www.wago.com/216-246
	**Item no.: 216-262** Ferrule; Sleeve for 0.75 mm² / AWG 20; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90	www.wago.com/216-262
	**Item no.: 216-263** Ferrule; Sleeve for 1 mm² / AWG 18; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90	www.wago.com/216-263
	**Item no.: 216-264** Ferrule; Sleeve for 1.5 mm² / AWG 16; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90	www.wago.com/216-264
	**Item no.: 216-266** Ferrule; Sleeve for 2.5 mm² / AWG 14; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90	www.wago.com/216-266
	**Item no.: 216-267** Ferrule; Sleeve for 4 mm² / AWG 12; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90	www.wago.com/216-267
	**Item no.: 216-284** Ferrule; Sleeve for 1.5 mm² / AWG 16; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90	www.wago.com/216-284
	**Item no.: 216-286** Ferrule; Sleeve for 2.5 mm² / AWG 14; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90	www.wago.com/216-286

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	**Item no.: 216-287** Ferrule; Sleeve for 4 mm² / AWG 12; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90	www.wago.com/216-287
	**Item no.: 216-301** Ferrule; Sleeve for 0.25 mm² / AWG 24; insulated; electro-tin plated	www.wago.com/216-301
	**Item no.: 216-302** Ferrule; Sleeve for 0.34 mm² / AWG 24; insulated; electro-tin plated	www.wago.com/216-302
	**Item no.: 216-321** Ferrule; Sleeve for 0.25 mm² / AWG 24; insulated; electro-tin plated	www.wago.com/216-321
	**Item no.: 216-322** Ferrule; Sleeve for 0.34 mm² / AWG 24; insulated; electro-tin plated	www.wago.com/216-322

Jumper

	**Item no.: 745-390** Comb-style jumper bar	www.wago.com/745-390
	**Item no.: 745-391** Comb-style jumper bar; from 1 to 3	www.wago.com/745-391
	**Item no.: 745-392** Comb-style jumper bar; 2-way	www.wago.com/745-392
	**Item no.: 745-393** Comb-style jumper bar; 3-way	www.wago.com/745-393
	**Item no.: 745-394** Comb-style jumper bar; 4-way	www.wago.com/745-394
	**Item no.: 745-395** Comb-style jumper bar; 5-way	www.wago.com/745-395

Marking accessories

	**Item no.: 2009-115** WMB-Inline; for smartPRINTER; on reel; stretchable 5 - 5.2 mm; plain; snap-on type	www.wago.com/2009-115
	**Item no.: 2009-115/000-002** WMB-Inline; for smartPRINTER; on reel; stretchable 5 - 5.2 mm; plain; snap-on type	www.wago.com/2009-115/000-002
	**Item no.: 2009-115/000-006** WMB-Inline; for smartPRINTER; on reel; stretchable 5 - 5.2 mm; plain; snap-on type	www.wago.com/2009-115/000-006
	**Item no.: 2009-115/000-007** WMB-Inline; for smartPRINTER; on reel; stretchable 5 - 5.2 mm; plain; snap-on type	www.wago.com/2009-115/000-007
	**Item no.: 2009-115/000-012** WMB-Inline; for smartPRINTER; on reel; stretchable 5 - 5.2 mm; plain; snap-on type	www.wago.com/2009-115/000-012

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	**Item no.: 2009-115/000-017** WMB-Inline; for smartPRINTER; on reel; stretchable 5 - 5.2 mm; plain; snap-on type	www.wago.com/2009-115/000-017
	**Item no.: 2009-115/000-023** WMB-Inline; for smartPRINTER; on reel; stretchable 5 - 5.2 mm; plain; snap-on type	www.wago.com/2009-115/000-023
	**Item no.: 2009-115/000-024** WMB-Inline; for smartPRINTER; on reel; stretchable 5 - 5.2 mm; plain; snap-on type	www.wago.com/2009-115/000-024
	**Item no.: 2009-145** Mini-WSB Inline; for smartPRINTER; on reel; stretchable 5 - 5.2 mm; plain; snap-on type	www.wago.com/2009-145
	**Item no.: 2009-145/000-002** Mini-WSB Inline; for smartPRINTER; on reel; stretchable 5 - 5.2 mm; plain; snap-on type	www.wago.com/2009-145/000-002
	**Item no.: 2009-145/000-005** Mini-WSB Inline; for smartPRINTER; on reel; stretchable 5 - 5.2 mm; plain; snap-on type	www.wago.com/2009-145/000-005
	**Item no.: 2009-145/000-006** Mini-WSB Inline; for smartPRINTER; on reel; stretchable 5 - 5.2 mm; plain; snap-on type	www.wago.com/2009-145/000-006
	**Item no.: 2009-145/000-007** Mini-WSB Inline; plain; 1,700 Mini-WSB markers (5 mm) on roll; stretchable 5 - 5.2 mm	www.wago.com/2009-145/000-007
	**Item no.: 2009-145/000-012** Mini-WSB Inline; for smartPRINTER; on reel; stretchable 5 - 5.2 mm; plain; snap-on type	www.wago.com/2009-145/000-012
	**Item no.: 2009-145/000-023** Mini-WSB Inline; for smartPRINTER; on reel; stretchable 5 - 5.2 mm; plain; snap-on type	www.wago.com/2009-145/000-023
	**Item no.: 2009-145/000-024** Mini-WSB Inline; on reel; stretchable 5 - 5.2 mm; plain; snap-on type	www.wago.com/2009-145/000-024
	**Item no.: 248-501** Miniature WSB Quick marking system; plain; Marker width 5 mm; 10 strips with 10 markers per card	www.wago.com/248-501
	**Item no.: 248-501/000-002** Mini-WSB marking card; as card; not stretchable; plain; snap-on type	www.wago.com/248-501/000-002
	**Item no.: 248-501/000-005** Mini-WSB marking card; as card; plain; snap-on type	www.wago.com/248-501/000-005
	**Item no.: 248-501/000-006** Mini-WSB marking card; as card; not stretchable; plain; snap-on type	www.wago.com/248-501/000-006

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	**Item no.: 248-501/000-007** Mini-WSB marking card; as card; not stretchable; plain; snap-on type	www.wago.com/248-501/000-007
	**Item no.: 248-501/000-012** Mini-WSB marking card; as card; not stretchable; plain; snap-on type	www.wago.com/248-501/000-012
	**Item no.: 248-501/000-017** Mini-WSB marking card; as card; not stretchable; plain; snap-on type	www.wago.com/248-501/000-017
	**Item no.: 248-501/000-023** Mini-WSB marking card; as card; not stretchable; plain; snap-on type	www.wago.com/248-501/000-023
	**Item no.: 248-501/000-024** Mini-WSB marking card; as card; not stretchable; plain; snap-on type	www.wago.com/248-501/000-024
	Item no.: 793-501 WMB marking card; as card; not stretchable; plain; snap-on type	www.wago.com/793-501
	**Item no.: 793-501/000-002** WMB marking card; as card; not stretchable; plain; snap-on type	www.wago.com/793-501/000-002
	**Item no.: 793-501/000-005** WMB marking card; as card; not stretchable; plain; snap-on type	www.wago.com/793-501/000-005
	**Item no.: 793-501/000-006** WMB marking card; as card; not stretchable; plain; snap-on type	www.wago.com/793-501/000-006
	**Item no.: 793-501/000-007** WMB marking card; as card; not stretchable; plain; snap-on type	www.wago.com/793-501/000-007
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	**Item no.: 793-501/000-017** WMB marking card; as card; not stretchable; plain; snap-on type	www.wago.com/793-501/000-017
	**Item no.: 793-501/000-023** WMB marking card; as card; not stretchable; plain; snap-on type	www.wago.com/793-501/000-023
	**Item no.: 793-501/000-024** WMB marking card; as card; not stretchable; plain; snap-on type	www.wago.com/793-501/000-024
	Item no.: 793-5501 WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type	www.wago.com/793-5501
	Item no.: 793-5501/000-002	

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	WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type	www.wago.com/793-5501/000-002
	**Item no.: 793-5501/000-005** WMB marking card; as card; stretchable 5 - 5.2 mm; plain; snap-on type	www.wago.com/793-5501/000-005
	**Item no.: 793-5501/000-006** WMB marking card; as card; stretchable 5 - 5.2 mm; plain; snap-on type	www.wago.com/793-5501/000-006
	**Item no.: 793-5501/000-007** WMB marking card; as card; stretchable 5 - 5.2 mm; plain; snap-on type	www.wago.com/793-5501/000-007
	**Item no.: 793-5501/000-012** WMB marking card; as card; stretchable 5 - 5.2 mm; plain; snap-on type	www.wago.com/793-5501/000-012
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	**Item no.: 793-5501/000-023** WMB marking card; as card; stretchable 5 - 5.2 mm; plain; snap-on type	www.wago.com/793-5501/000-023
	**Item no.: 793-5501/000-024** WMB marking card; as card; stretchable 5 - 5.2 mm; plain; snap-on type	www.wago.com/793-5501/000-024

Downloads

CAD files

CAD data

3D Download 745-843		URL	Download

PCB libraries

DesignSpark Library for WAGO PCB Terminal Blocks Compatible with DesignSpark PCB Version 4.x or higher	2.1 Oct 6, 2014	ZIP 22.5 MB	Download
EAGLE Library for WAGO PCB Terminal Blocks Compatible with EAGLE PCB Design Software Version 6.x or higher	2.1 Nov 17, 2017	ZIP 23.9 MB	Download
TARGET Library for WAGO PCB Terminal Blocks Compatible with TARGET PCB Design Software Version 17.x	1.1.0 Oct 6, 2014	ZIP 27.1 MB	Download

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