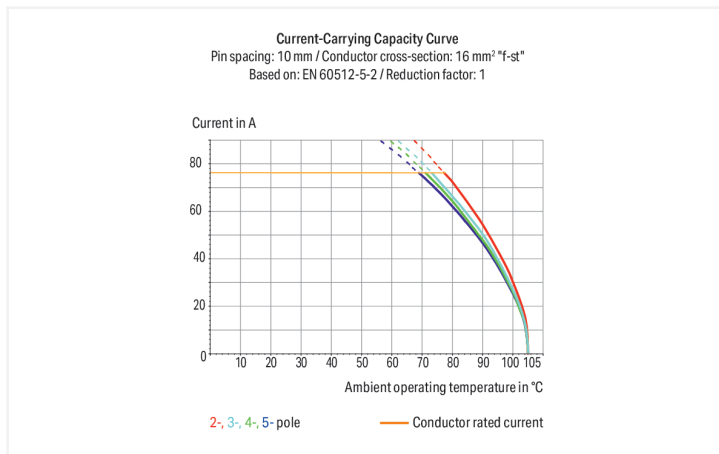


Data Sheet | Item Number: 745-653/007-000

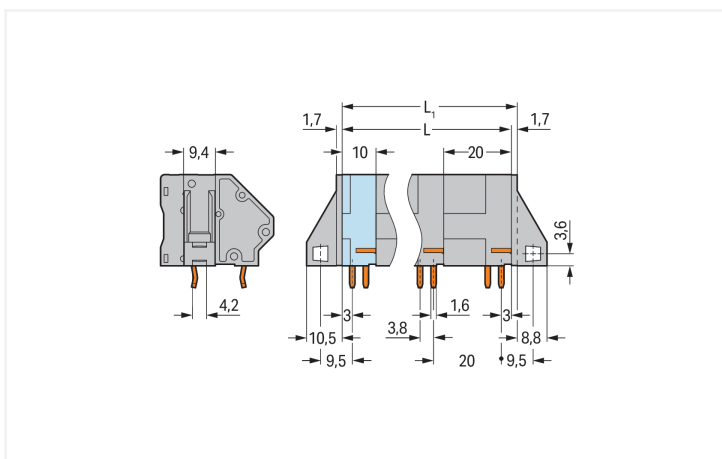
PCB terminal block; 16 mm²; Pin spacing 20 mm; 3-pole; CAGE CLAMP®; commo-
ning option; Solder pin length 5 mm; gray

<https://www.wago.com/745-653/007-000>



Color: ■ gray

Similar to illustration



Dimensions in mm

$L = (\text{pole no.} - 1) \times \text{pin spacing} + 10 \text{ mm}$
 $L_1 = L + 1.7 \text{ mm} \triangleq \text{version without mounting flange}$

PCB terminal block, 745 Series, CAGE CLAMP®

Quick and easy connections are guaranteed with this PCB terminal block (item number 745-653/007-000). You can rely on trusted safety with these PCB terminal blocks, perfect for a wide range of applications when designing your devices. Strip lengths must be between 12 and 13 mm when connecting conductors to this PCB terminal block. This product features one conductor terminal and utilizes CAGE CLAMP®. Our highly-rated and maintenance-free CAGE CLAMP® connection makes it easy to connect all conductor types without having to prepare the conductor. For example, you don't need to crimp ferrules. The dimensions are (51.7 x 32 x 33.4) mm (width x height x depth). This PCB terminal block is suitable for conductor cross sections ranging from 0.2 mm² to 16 mm².

The contact surface is coated with tin. An operating tool is used to operate this PCB terminal block. THT is used to assemble the PCB terminal block. Insert the conductor into the board at an angle of 45°.

Notes

Variants:	Other pole numbers Versions for Ex e II and Ex i Other colors Mixed-color PCB connector strips Versions with mounting flanges Direct marking Solder pin length: 5 mm Other versions (or variants) can be requested from WAGO Sales or configured at https://configurator.wago.com/ .
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Electrical data

Ratings per	IEC/EN 60664-1			Approvals per	UL 1059		
Overvoltage category	III	III	II	Use group	B	C	D
Pollution degree	3	2	2	Rated voltage	600 V	600 V	-
Nominal voltage	1000 V	1000 V	1000 V	Rated current	65 A	65 A	-
Rated impulse withstand voltage	12 kV	12 kV	12 kV				
Rated current	76 A	76 A	76 A				

Approvals per	CSA		
Use group	B	C	D
Rated voltage	600 V	600 V	-
Rated current	65 A	65 A	-

Connection Data

Clamping units	3	Connection 1	
Total number of potentials	3	Connection technology	CAGE CLAMP®
Number of connection types	1	Actuation type	Operating tool
Number of levels	1	Solid conductor	0.2 ... 16 mm ² / 24 ... 6 AWG
Number of jumper slots	1	Fine-stranded conductor	0.2 ... 16 mm ² / 24 ... 6 AWG
		Fine-stranded conductor; with insulated ferrule	0.25 ... 10 mm ²
		Fine-stranded conductor; with un-insulated ferrule	0.25 ... 10 mm ²
		Strip length	12 ... 13 mm / 0.47 ... 0.51 inches
		Conductor connection direction to PCB	45 °
		Pole number	3

Physical data

Pin spacing	20 mm / 0.787 inches
Width	51.7 mm / 2.035 inches
Height	32 mm / 1.26 inches
Height from the surface	27 mm / 1.063 inches
Depth	33.4 mm / 1.315 inches
Solder pin length	5 mm
Solder pin dimensions	1.2 x 1.6 mm
!	2.2 ^(±0.1) mm

PCB contact

PCB contact	THT
Solder pin arrangement	over the entire terminal strip (in-line)
Number of solder pins per potential	4

Material data

Note (material data)	Information on material specifications can be found here
Color	gray
Material group	I
Insulation material (main housing)	Polyamide (PA66)
Flammability class per UL94	V0
Clamping spring material	Chrome-nickel spring steel (CrNi)
Contact material	Electrolytic copper (E _{cu})
Contact Plating	Tin
Fire load	0.635 MJ
Weight	35.3 g

Environmental requirements

Limit temperature range	-60 ... +105 °C
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Commercial data

PU (SPU)	20 pcs
Packaging type	Box
Country of origin	PL
GTIN	4055143397735
Customs tariff number	85369010000

Product Classification

UNSPSC	39121409
eCl@ss 10.0	27-44-04-01
eCl@ss 9.0	27-44-04-01
ETIM 9.0	EC002643
ETIM 10.0	EC002643
ECCN	NO US CLASSIFICATION

Environmental Product Compliance

RoHS Compliance Status	Compliant, No Exemption
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Approvals / Certificates

General approvals



Approval	Standard	Certificate Name
CSA DEKRA Certification B.V.	C22.2 No. 158	1604421
UR Underwriters Laboratories Inc.	UL 1059	E45172

Downloads

Environmental Product Compliance

Compliance Search

Environmental Product
Compliance
745-653/007-000



Documentation

Additional Information

Technical Section

03.04.2019

pdf

2027.26 KB



CAD/CAE-Data

PCB Design

Symbol and Footprint
via SamacSys
745-653/007-000

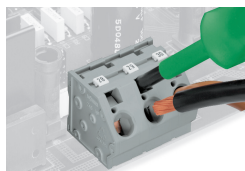


Symbol and Footprint
via Ultra Librarian
745-653/007-000



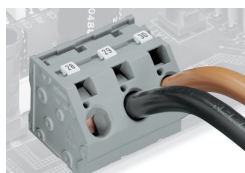
Installation Notes

Conductor termination



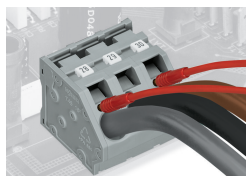
Inserting/removing a conductor via 5.5
mm screwdriver – 745 Series, 16 mm².

Marking



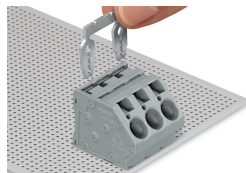
Marking via Mini-WSB and WMB markers
or factory direct marking – 745 Series.

Testing

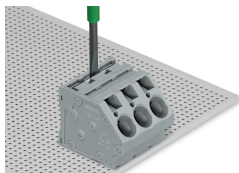


Testing with test plug – 745 Series.

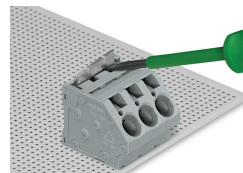
Commoning



Inserting a comb-style jumper bar.



To insert a comb-style jumper bar, push it down using a screwdriver until it hits the backstop – 745 Series.



To remove the jumper bar, lift it up using a screwdriver – 745 Series.