



#### General ordering data

Order No.	1696060000
Part designation	LP5.00/2/90 4.5 SW
Version	PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 6 mm <sup>2</sup> , Pitch: 5.00 mm, No. of poles: 2, 90°, Box
EAN	4008190876807
Qty.	100 pc(s).

#### System parameters

Product family	System LP
Conductor connection system	Clamping yoke connection
Fitted to PCB	Soldered connection
Outgoing direction of conductor	90°
Pitch	5 mm
Pitch in inch	0.197 inch
No. of poles	2
Fitted by customer	yes
Max. adjacent poles per row	24
No. of rows	1
Solder pin length	4.5 mm
Dia. of fitting hole	1.3 mm
Fitting hole tolerance	+ 0.1 mm
No. of solder pins per pole	1

**System parameters**

Screwdriver blade	0.6 x 3.5
Screwdriver blade standard	DIN 5264
Tightening torque, min.	0.5 Nm
Tightening torque, max.	0.6 Nm
Clamping screw	M 3
Stripping length	6 mm
L1 in mm	5 mm
L1 in inch	0.197 inch
Electric shock protection to DIN VDE 0470	IP 20
Electric shock protection to DIN VDE 0470	Safe from finger touch

**Material data**

Insulating material	PA
Colour	black
colour chart	Similar to RAL 9011
Insulating material group	I
Flammability class UL 94	V-2
CTI	>= 600
Temperature of glow-wire test	750 °C
Duration of glow-wire test	30 S
Contact base material	Copper alloy
Contact surface	tinned
Storage temperature, min.	-25 °C
Storage temperature, max.	55 °C

**Connectable conductors**

Clamping range, min.	0.13 mm <sup>2</sup>
Clamping range, max.	6 mm <sup>2</sup>
AWG, min.	26
AWG, max.	12
Solid, min. H05(07) V-U	0.5 mm <sup>2</sup>
Solid, max. H05(07) V-U	6 mm <sup>2</sup>
Flexible, min. H05(07) V-K	0.5 mm <sup>2</sup>
Flexible, max. H05(07) V-K	4 mm <sup>2</sup>
With wire end ferrule, acc. to DIN 46 228/1, min.	0.5 mm <sup>2</sup>
With wire end ferrule, acc. to DIN 46 228/1, max.	2.5 mm <sup>2</sup>
w. plastic collar ferrule, DIN 46228 pt 4, min.	0.5 mm <sup>2</sup>
w. plastic collar ferrule, DIN 46228 pt 4, max.	2.5 mm <sup>2</sup>
Gauge to EN 60999 a x b; ø	2.8 mm x 2.4 mm; 3.0 mm

**DIN IEC rating data**

Rated current, min. No. pins (Tu=20°C)	32 A
Rated current, max. No. pins (Tu=20°C)	30.5 A
Rated current, min. No. pins (Tu=40°C)	32 A
Rated current, max. No. pins (Tu=40°C)	25 A
Rated voltage for overvoltage class/pollution severity II/2	500 V
Rated voltage for overvoltage class/pollution severity III/2	250 V
Rated voltage for overvoltage class/pollution severity III/3	250 V

#### DIN IEC rating data

Rated impulse withstand voltage for overvoltage class/pollution severity II/2	4 kV
Rated impulse withstand voltage for overvoltage class/pollution severity III/2	4 kV
Rated impulse withstand voltage for overvoltage class/pollution severity III/3	4 kV
Short-time withstand current resistance	3 x 1s with 120 A

#### CSA rating data

Rated voltage (Use group D)	300 V
Rated current (Use group D)	10 A
AWG conductor (field wiring), min.	26
AWG conductor (field wiring), max.	12

#### UL 1059 rating data

Rated voltage (Use group D)	300 V
Rated current (Use group D)	10 A
AWG conductor, min.	26
AWG conductor, max.	12

#### Approvals

Approvals institutes



#### Downloads

CAD Library (P-CAD Format - Standard)	LP.lib
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#### Classifications

ETIM 2.0	NK
ETIM 3.0	EC001284
eClass 4.1	NK
eClass 5.0	NK
eClass 5.1	NK

#### Similar products

Order No.	Part designation	Version
1594320000	LP5.00/2/90 3.2 OR	PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 6 mm <sup>2</sup> , Pitch: 5.00 mm, No. of poles: 2, 90°, Box
1724240000	LP5.00/2/90 3.2 GR	PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 6 mm <sup>2</sup> , Pitch: 5.00 mm, No. of poles: 2, 90°, Box
1594500000	LP5.00/2/90 4.5 OR	PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 6 mm <sup>2</sup> , Pitch: 5.00 mm, No. of poles: 2, 90°, Box

1594330000	LP5.00/3/90 3.2 OR	PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 6 mm <sup>2</sup> , Pitch: 5.00 mm, No. of poles: 3, 90°, Box
1594510000	LP5.00/3/90 4.5 OR	PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 6 mm <sup>2</sup> , Pitch: 5.00 mm, No. of poles: 3, 90°, Box
1696070000	LP5.00/3/90 4.5 SW	PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 6 mm <sup>2</sup> , Pitch: 5.00 mm, No. of poles: 3, 90°, Box
1608310000	LP5.00/4/90 3.2 OR	PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 6 mm <sup>2</sup> , Pitch: 5.00 mm, No. of poles: 4, 90°, Box
1714870000	LP5.00/4/90 3.2 GR	PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 6 mm <sup>2</sup> , Pitch: 5.00 mm, No. of poles: 4, 90°, Box
1759100000	LP5.00/5/90 3.2 OR	PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 6 mm <sup>2</sup> , Pitch: 5.00 mm, No. of poles: 5, 90°, Box
1608330000	LP5.00/6/90 3.2 OR	PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 6 mm <sup>2</sup> , Pitch: 5.00 mm, No. of poles: 6, 90°, Box
1608340000	LP5.00/6/90 4.5 OR	PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 6 mm <sup>2</sup> , Pitch: 5.00 mm, No. of poles: 6, 90°, Box
1844480000	LP5.00/7/90 3.2 OR	PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 6 mm <sup>2</sup> , Pitch: 5.00 mm, No. of poles: 7, 90°, Box
1608350000	LP5.00/8/90 3.2 OR	PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 6 mm <sup>2</sup> , Pitch: 5.00 mm, No. of poles: 8, 90°, Box
1608360000	LP5.00/8/90 4.5 OR	PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 6 mm <sup>2</sup> , Pitch: 5.00 mm, No. of poles: 8, 90°, Box
1753300000	LP5.00/9/90 3.2 OR	PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 6 mm <sup>2</sup> , Pitch: 5.00 mm, No. of poles: 9, 90°, Box
1608370000	LP5.00/10/90 3.2 OR	PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 6 mm <sup>2</sup> , Pitch: 5.00 mm, No. of poles: 10, 90°, Box
1608380000	LP5.00/10/90 4.5 OR	PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 6 mm <sup>2</sup> , Pitch: 5.00 mm, No. of poles: 10, 90°, Box
1844490000	LP5.00/11/90 3.2 OR	PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 6 mm <sup>2</sup> , Pitch: 5.00 mm, No. of poles: 11, 90°, Box
1608390000	LP5.00/12/90 3.2 OR	PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 6 mm <sup>2</sup> , Pitch: 5.00 mm, No. of poles: 12, 90°, Box
1608410000	LP5.00/16/90 3.2 OR	PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 6 mm <sup>2</sup> , Pitch: 5.00 mm, No. of poles: 16, 90°, Box

1741040000 LP5.00/18/90 4.5 OR

PCB terminal, Clamping yoke connection, Soldered connection,  
Clamping range, max.: 6 mm<sup>2</sup>, Pitch: 5.00 mm, No. of poles: 18, 90°,  
Box

1608440000 LP5.00/24/90 4.5 OR

PCB terminal, Clamping yoke connection, Soldered connection,  
Clamping range, max.: 6 mm<sup>2</sup>, Pitch: 5.00 mm, No. of poles: 24, 90°,  
Box