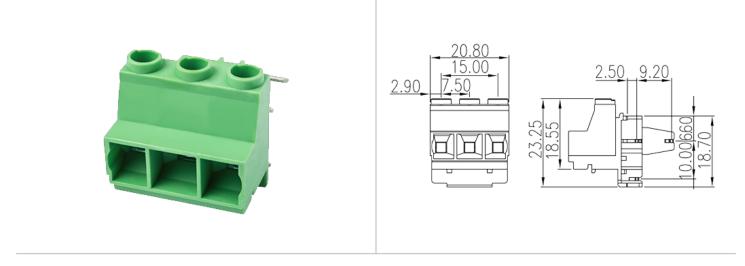


7ES-3PR

PCB Terminal Blocks > PCB Connector-Plug

Date:2025-11-04Version:1.1



The web catalog is for reference only. Dinkle remains the right of product modification and engineering change of the design.

The final product is made according to engineering drawing.

Product Description

Pitch: 7.50 mm, 300V, 20A

General information

Short description	PCB Connector – Plug, Screw Connection
Category	PCB Connector – Plug
Pitch (mm)	7.5
Color	Green (default)
Connection method	Screw Connection
Type of locking	Without
Soldering method	Wave soldering
Length (mm)	20.8
Width (mm)	27.95
Height (mm)	23.25
Pin demensions (Thickness x Width)(mm)	0.8x1.0
Number of positions	03P
Level	Single level

Material information

Insulation material	PA

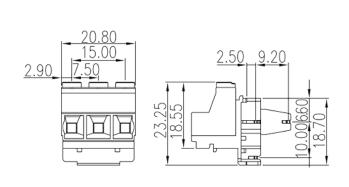


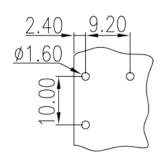
Insulation material group	I
Flame retardant rating , compliant with UL94	V0
Insulation resistance	□500MΩ at DC 500V
Conductor material	COPPER ALLOY
Plating of conductor surface	Tin PLATED
Connection data-IEC	
Rated voltage (V)	630
Rated current (A)	24
Rated voltage (II/2)(V)	1000
Rated voltage (III/2) (V)	630
Rated voltage (III/3)(V)	600
Rated impulse voltage (II/2)(KV)	6
Rated impulse voltage (III/2)(KV)	6
Rated impulse voltage (III/3)(KV)	6
Conductor cross section solid. min (mm²)	0.2
Conductor cross section solid.max (mm²)	2.5
Conductor cross section stranded. min (mm²)	0.2
Conductor cross section stranded. max (mm²)	2.5
Conductor cross section flexible, with min ferrule without plastic sleeve (mm²)	0.25
Conductor cross section flexible, with max ferrule without plastic sleeve (mm²)	2.5
Conductor cross section flexible, with min ferrule with plastic sleeve (mm²)	0.25
Conductor cross section flexible, with max ferrule with plastic sleeve (mm²)	2.5
2 conductors with same cross section, solid, min (mm²)	0.2
2 conductors with same cross section, solid, max (mm²)	1
2 conductors with same cross section, stranded, min (mm²)	0.2
2 conductors with same cross section, stranded, max (mm²)	1
2 conductors with same cross section flexible, with min ferrule without plastic sleeve (mm²)	0.25
2 conductors with same cross section flexible, with max ferrule without plastic sleeve (mm²)	1
2 conductors with same cross section flexible, min twin ferrules with plastic sleeve (mm²)	0.25

2 conductors with same cross section flexible, max twin ferrules with plastic sleeve (mm²)		
Screw thread	M2.5	
Slotted screwdriver size (Blade thickness x Width)(mm)	0.6x3.5	
Philips screwdriver size	PH1	
Rated torque (N.m)	0.4	
Stripping Length (mm)	7~8	
Connection data-UL		
Rated voltage (UL/CUL Group B)(V)	300	
Rated current (UL/CUL Group B)(A)	20	
Rated voltage (UL/CUL Group D)(V)	600	
Rated current (UL/CUL Group D)(A)	5	
Min. solid wire connection (AWG) acc. to UL/CUL	30	
Max. solid wire connection AWG acc. to UL/CUL	12	
Min. stranded wire connection AWG acc. to UL/CUL	30	
Min. stranded wire connection AWG acc. to UL/CUL Max. stranded wire connection AWG acc. to UL/CUL Environment & Safety	30 12	
Max. stranded wire connection AWG acc. to UL/CUL Environment & Safety Finger protection (YES or NO)	12 YES	
Max. stranded wire connection AWG acc. to UL/CUL Environment & Safety Finger protection (YES or NO) Operating temperature. max (°C)	12 YES 120	
Max. stranded wire connection AWG acc. to UL/CUL Environment & Safety Finger protection (YES or NO)	12 YES	
Max. stranded wire connection AWG acc. to UL/CUL Environment & Safety Finger protection (YES or NO) Operating temperature. max (°C)	12 YES 120	
Max. stranded wire connection AWG acc. to UL/CUL Environment & Safety Finger protection (YES or NO) Operating temperature. max (°C) Operating temperature. min (°C)	12 YES 120	
Max. stranded wire connection AWG acc. to UL/CUL Environment & Safety Finger protection (YES or NO) Operating temperature. max (°C) Operating temperature. min (°C) JL Recognized	12 YES 120 -40	
Max. stranded wire connection AWG acc. to UL/CUL Environment & Safety Finger protection (YES or NO) Operating temperature. max (°C) Operating temperature. min (°C) JL Recognized Wire Range (Group B)(AWG)	YES 120 -40	
Max. stranded wire connection AWG acc. to UL/CUL Environment & Safety Finger protection (YES or NO) Operating temperature. max (°C) Operating temperature. min (°C) JL Recognized Wire Range (Group B)(AWG) Rated voltage (Group B)(V)	YES 120 -40 30~12 300	
Max. stranded wire connection AWG acc. to UL/CUL Environment & Safety Finger protection (YES or NO) Operating temperature. max (°C) Operating temperature. min (°C) JL Recognized Wire Range (Group B)(AWG) Rated voltage (Group B)(V) Rated current (Group B)(A)	YES 120 -40 30~12 300 20	
Max. stranded wire connection AWG acc. to UL/CUL Environment & Safety Finger protection (YES or NO) Operating temperature. max (°C) Operating temperature. min (°C) JL Recognized Wire Range (Group B)(AWG) Rated voltage (Group B)(V) Rated current (Group B)(A) Wire Range (Group C)(AWG)	YES 120 -40 30~12 300 20 30~12	
Max. stranded wire connection AWG acc. to UL/CUL Environment & Safety Finger protection (YES or NO) Operating temperature. max (°C) Operating temperature. min (°C) JL Recognized Wire Range (Group B)(AWG) Rated voltage (Group B)(V) Rated current (Group B)(A) Wire Range (Group C)(AWG) Rated voltage (Group C)(V)	YES 120 -40 30~12 300 20 30~12 300	
Max. stranded wire connection AWG acc. to UL/CUL Environment & Safety Finger protection (YES or NO) Operating temperature. max (°C) Operating temperature. min (°C) JL Recognized Wire Range (Group B)(AWG) Rated voltage (Group B)(V) Rated current (Group B)(A) Wire Range (Group C)(AWG) Rated voltage (Group C)(V) Rated current (Group C)(A)	YES 120 -40 30~12 300 20 30~12 300 20 20 20 20	

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Rated current (Group B)(A)	20
Wire Range (Group C)(AWG)	30~12
Rated voltage (Group C)(V)	300
Rated current (Group C)(A)	20
Wire Ranget (Group D)(AWG)	30~12
Rated voltage (Group D)(V)	600
Rated current (Group D)(A)	5

Drawings





Approvals





