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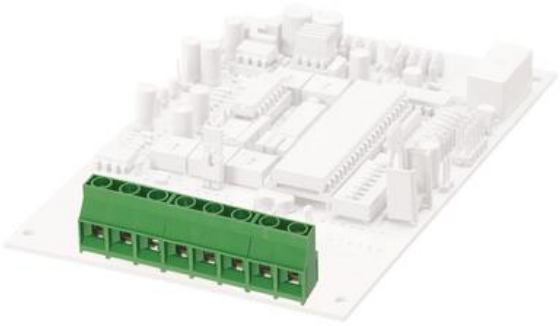
PKZ 840/841

10523.1
PKZ 840/2/6,35-V GN



- For direct solder mounting
- Up to 32 A and 450 V
- 2 to 16 poles

PRODUCT DESCRIPTION

The PKZ 840 and PKZ 841 terminal blocks are single-level, screw-connection PCB terminals designed for direct solder mounting. The PKZ 840 family uses a 6.35 mm pitch, while the PKZ 841 uses a wider 9.52 mm pitch, offering pole counts ranging typically from 2 up to 16 poles in both lines. They are rated for up to 32 A and 450 V (PKZ 840) or 1000 V (PKZ 841), with impulse voltage withstands of 6 kV and 3.5 kV respectively, suitable for overvoltage category III, contamination degree 3 environments. The terminals support conductor cross-sections from 0.2–6 mm² (solid or stranded wire, up to 4 mm² with ferrules), stripped length ~7 mm, secured via M3.5 screws torqued to around 0.8 Nm. Housing is polyamide 6.6, UL 94 V-0 flame class, with CTI of 600, insulation resistance ≥ 10^{13} Ω·cm, glow-wire rating GWFI 850 °C, GWIT 775 °C, and rated for wave-soldering at 265 °C for 3–4 seconds. Hardware is brass/steel, and the pin diameter is approx. 1 mm with a drill-hole of 1.6 mm and pin length of 4.4 mm. Approvals include UL 1059, cUL C22.2 No 158 and VDE DIN EN 60998.
The PKZ series serves in power electronics, industrial automation, control cabinets and equipment assemblies where high-current, high-voltage PCB connections are needed. The screw-connection design enables secure wiring up to AWG 10 (≈ 6 mm²), making them ideal for terminal blocks feeding relays, contactors, power supplies, sensors or control modules. The wider pitch of PKZ 841 supports higher voltages and greater creepage distances, suiting demanding power or utility control installations. Their flame-resistant housings and robust approvals ensure conformity with safety standards while allowing through-hole soldering on PCBs or wave-soldered production lines. The wide variety of pole counts allows modular layout flexibility for multiple common potentials or signal busses across circuit board assemblies.

TECHNICAL DATA

GENERAL DATA

Type	PCB terminal
Pitch	6.35 mm
Colour	Green
Number of poles	2
Approvals	UL, cUL, VDE

RATINGS

Rated current	32 A
Rated voltage	450 V
Rated cross section	4 mm²
Rated impulse voltage	6 kV
Overvoltage category	III
Contamination degree	3

DIMENSIONS

Length	12.5 mm
Width	13.3 mm
Height	21.5 mm
Width left	3.775 mm
Width right	3.175 mm
Drillhole diameter	1.6 mm
Diameter of the connection pin	1 mm
Length of pin	4.4 mm

CONNECTION DATA

Connector type/principle	Screw
Number of levels	1
Angle of PCB/wire connection	0°/180° (horizontal)
Type of attachment to PCB	Connecting contact
Electrical connection type to PCB	Solder
Cross section single wire from	0.2 mm²
Cross section single wire to	6 mm²
Cross section stranded wire from	0.2 mm²
Cross section stranded with ferrule to	4 mm²
Cross section stranded wire to	4 mm²
Cross section stranded with ferrule from	0.25 mm²
Rated wire cross section to (AWG)	10
Rated wire cross section from (AWG)	28
Stripping length	7 mm
Screw size	M 3,5
Torque	0.8

MATERIALS

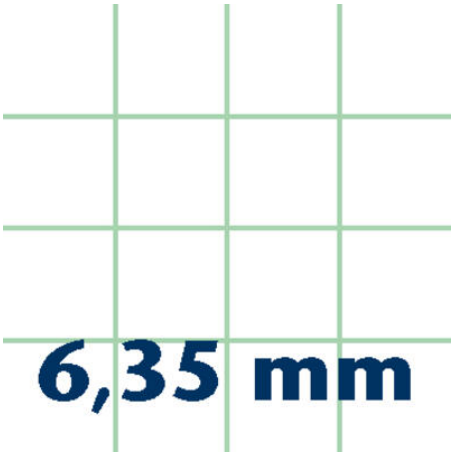
Housing material	Polyamide 6.6
Flammability class	UL94-V0
Operating temperature from	-30 °C
Operating temperature to	105 °C
Solder lug	Brass
Screw material	Steel

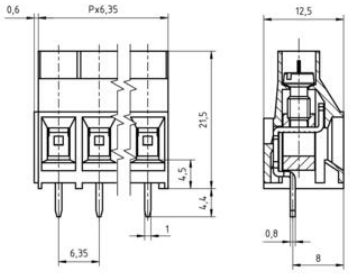
Clamp material	Brass

APPROVALS

UL test standard	UL 1059
Rated voltage UL	300 V
Rated current UL	30 A
cUL test standard	C22.2 No 158
Rated voltage cUL	300 V
Rated current cUL	30 A
VDE test standard	DIN EN 60998
Rated voltage VDE	450 V
Rated current VDE	32 A

Recommended wave solder duration max	4 s
Recommended wave solder duration min	3 s
Recommended wave soldering temperature	265 °C
Tariff code	85369010
Pack size	50
Weight	4.97 g
Connection cycles acc. to standard	5
Country of origin	QU
Current creepage resistance	CTI 600
Glow wire flammability index (GWFI)	GWFI 850
Glow wire ignition temperature (GWIT)	GWIT 775
GWFI after-glow time	30 s
GWIT exposure time	5 s
Insulation resistance	1*10^13 Ω x cm


6,35 mm


0,6
P×6,35
12,5
21,5
4,5
4,4
1
6,35
0,8
8