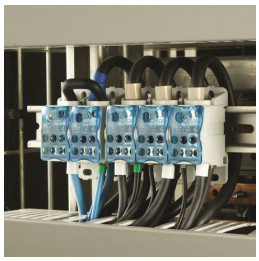
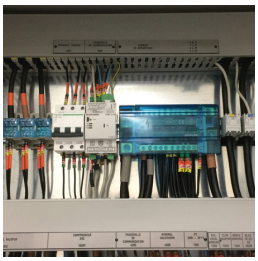
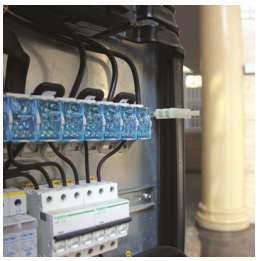
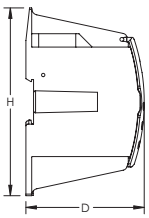
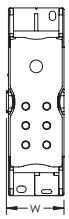
Single Pole Distribution Block – UD6C500AL (569201)

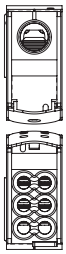






- Tinned copper or aluminum block allows for copper or aluminum conductor direct connections, or using ferrule
- Screw retaining cover is hinged and removable
- Design allows for visual inspection of conductor and confirmation of connection
- Modular snap-together blocks for building multi-pole power blocks
- Easily clips onto DIN rail or mounts to panel with screws
- 95% fill ratio
- RoHS compliant
- Halogen free plastic housing excluding the blue protection cover







Part Number	UD6C500AL
Article Number	569201
Finish	Tinned
Max Current Rating, IEC	500 A
Max Current Rating, UL/CSA	380 A
Line Side Connection	Cable
Load Side Connection	6 Cables
Material	Aluminum Thermoplastic
Line Side Max Conductor Size, UL	500 kcmil
Load Side Max Conductor Size, UL	1/0 AWG
Max Working Voltage, IEC (Ui)	1,000 VAC 1,500 VDC
Max Working Voltage, UL (Vin)	1,000 VAC/DC
Short Term Withstand Current (Icw) 1s	34.3 kA
Peak Short Circuit Current (Ipk)	52.5 kA
Rated Conditional Short-Circuit Current (Icc)	25 kA
Short Circuit Current Rating (SCCR)	100 kA
Line Side Number of Connections	1
Line Side Compact Stranded Wire Size	95 - 240 mm²
Line Side Wire Size	3/0 – 500 kcmil
Load Side Number of Connections	6

Part Number	UD6C500AL
Load Side Compact Stranded Wire Size	10 - 50 mm²
Load Side Stranded Wire Size - Ferrule	#8 - #1
Load Side Wire Size	#8 - 1/0
Enclosure Rating	IP 20
Depth	5.83"
Height	3.55"
Width	1.72"
Unit Weight	0.75 lb
Certification Details	UL® 1953
Flammability Rating	UL® 94V-0
Complies With	IEC® 60947-7-1
Certifications	UL
Standard Packaging Quantity	1 pc
UPC	78285697535
EAN-13	0782856975359

Design Guideline for Distribution Blocks, Power Blocks and Power Terminals										
Derating according to Ambient* Temperature (°F) to maintain working temperature of 185°F										
Ambient Temperature (°F)	86°	95°	104°	113°	122°	131°	140°	149°	158°	167°
Derating Coefficient (d)	1	1	1	0.94	0.88	0.82	0.75	0.67	0.58	0.47
*environment around the terminal blocks inside the enclosure										

Increase the number of outputs with one input using a jumper on blocks with a Max Current Rating, IEC up to 160 A.
Blocks with 1,000 VAC/DC Max Working Voltage, UL are ideal for solar applications.
Blue protection cover is less than 7% of the overall product weight.