## Wiring - power terminals

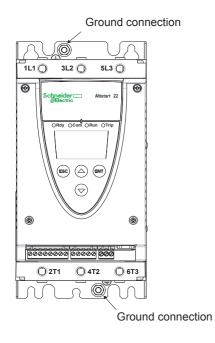
#### **Power**

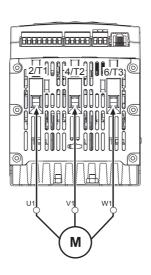
Observe the cable cross-sectional areas recommended in the standards.

The soft starter must be grounded to conform to the regulations concerning leakage currents. If the installation involves several soft starters on the same line, each soft starter must be grounded separately.

Keep the power cables separate from circuits in the installation with low-level signals (sensors, PLCs, measuring devices, video, telephone).

### Cage style connectors for frame sizes A and B





bottom view

#### Ground connections, screw size

Frame size	Screw				
Α	M6				
В	M6				
С	M6				
D	M10				
Е	M10				

# Power connections, minimum and maximum wiring capabilities, tightening torque

Frame	ATS22	IEC cable  1/L1 3/L2 5/L3 and 2/T1 4/T2 6/T3  power supply and output to motor				UL cable					
size							1/L1 3/L2 5/L3 and 2/T1 4/T2 6/T3 power supply and output to motor				
		Si	ze	Tightening torque		Strip	Gauge		Tightening torque		Strip
		min.	max	min.	max	length	min.	max	min.	max	length
		mm²	mm²	N·m	N·m	mm	AWG	AWG	lb∙in	lb∙in	in.
Α	D17, D32, D47	2.5	16	3	3	10	12	4	26	26	0.4
В	D62, D75, D88	4 (a)	50	10	10	15	10 (a)	1/0	89	89	0.6

(a) The cable gauge affects the IP protection of the soft starter. To keep IP20 value with a connected cable on frame B, the minimum cable gauge is: 16 mm² or 4 AWG.

Allen key, supplied with size B products

# **A DANGER**

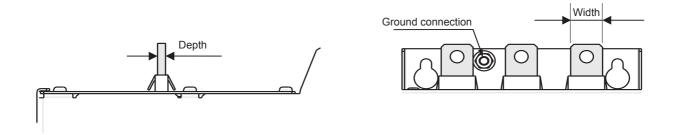
#### FIRE HAZARD DUE TO LACK OF TIGHTENING TORQUE

- · Ensure correct connector tightening torque for power terminals.
- · For size B, use the Allen key provided with the product.

Failure to follow these instructions will result in death or serious injury.

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## Bus bar connections for frame sizes C to E



Frame Size	ATS22	1/L1 3/L2 5/L3 and 2/T1 4/T2 6/T3 power supply and output to motor								
			Bar		Cable and cover					
		Width	Depth	Bolt	Size	Size Gauge		Tightening torque		
		mm (in.)	mm (in.)	М	mm²	MCM	Ref	N·m	lb∙in	
С	C11, C14, C17	20 (0.79)	5 (0.2)	8 (0.31)	95	250	LA9F702	18	159	
D	C21, C25, C32, C41	30 (1.18)	5 (0.2)	12 (0.47)	2x150	2x250	LA9F703	57	503	
E	C48, C59	40 (1.57)	5 (0.2)	12 (0.47)	2x240	2x500	LA9F703	57	503	

For more details, see Dimensions and weights paragraph page  $\underline{\mathbf{14}}$ .

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