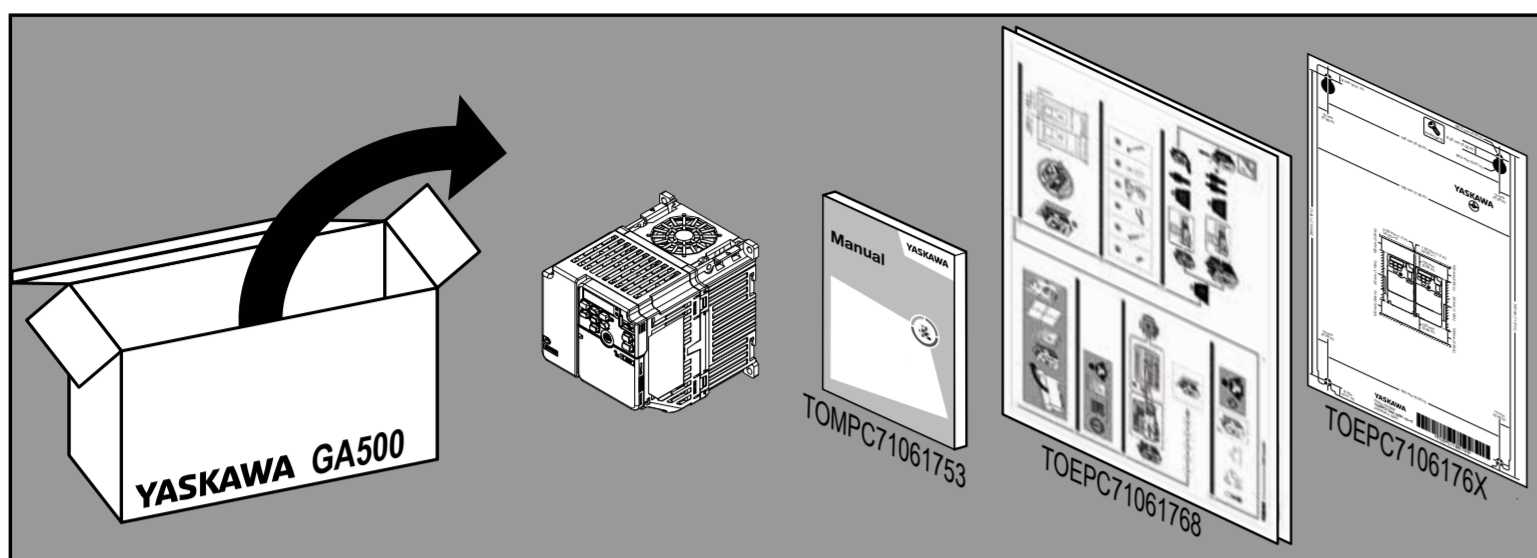
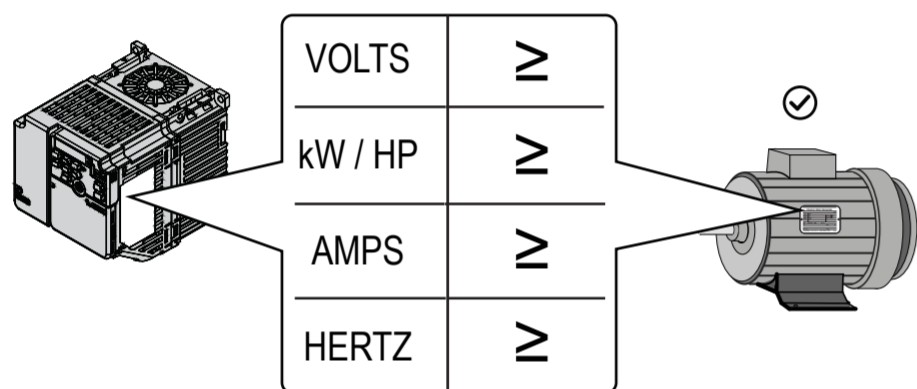


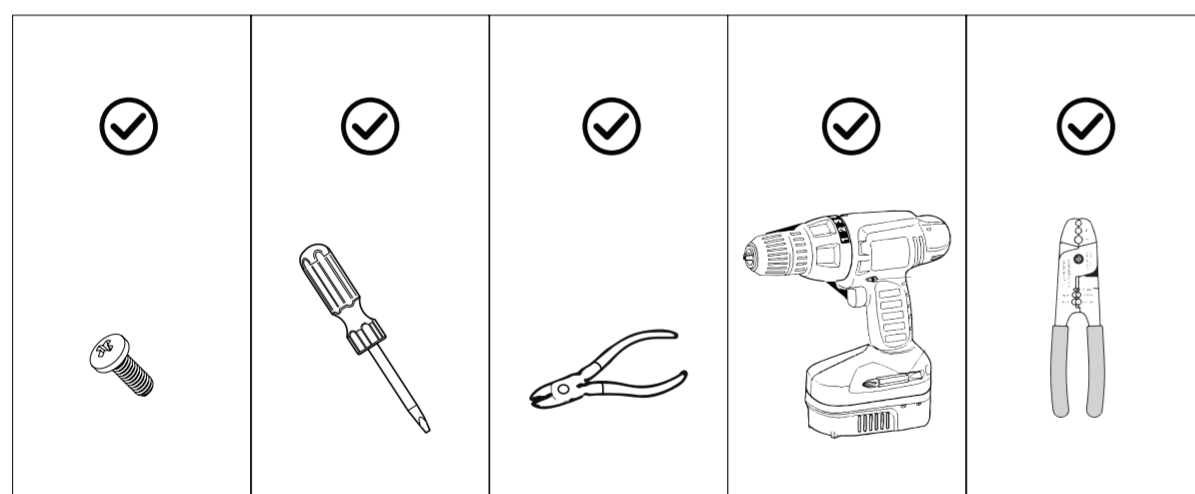
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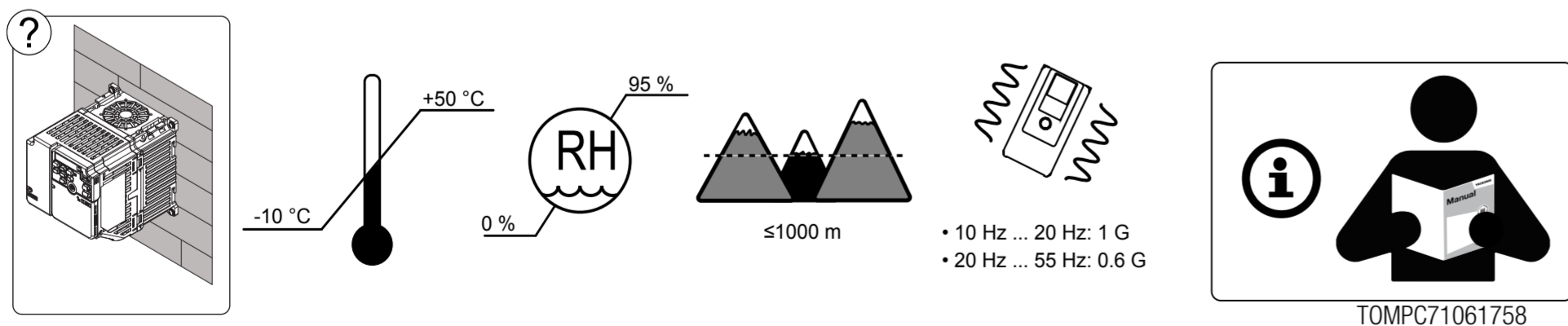
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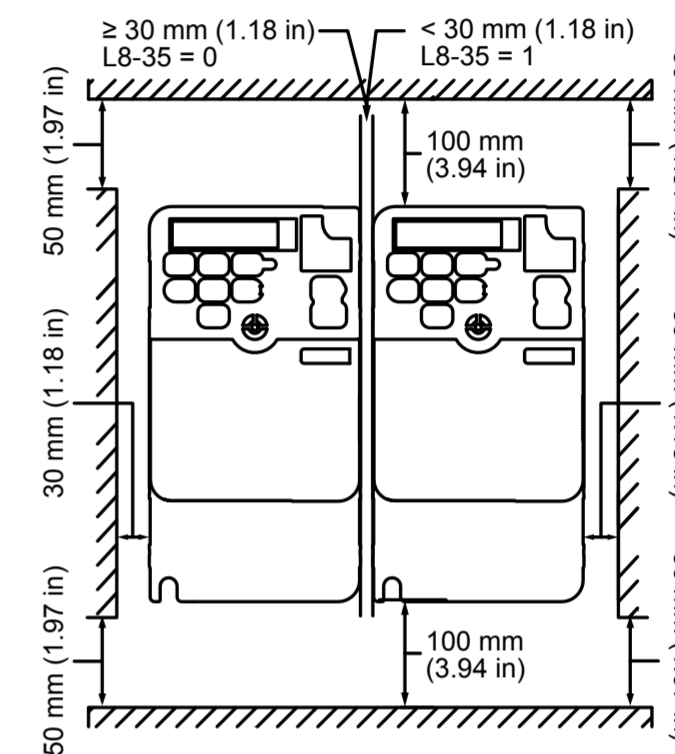
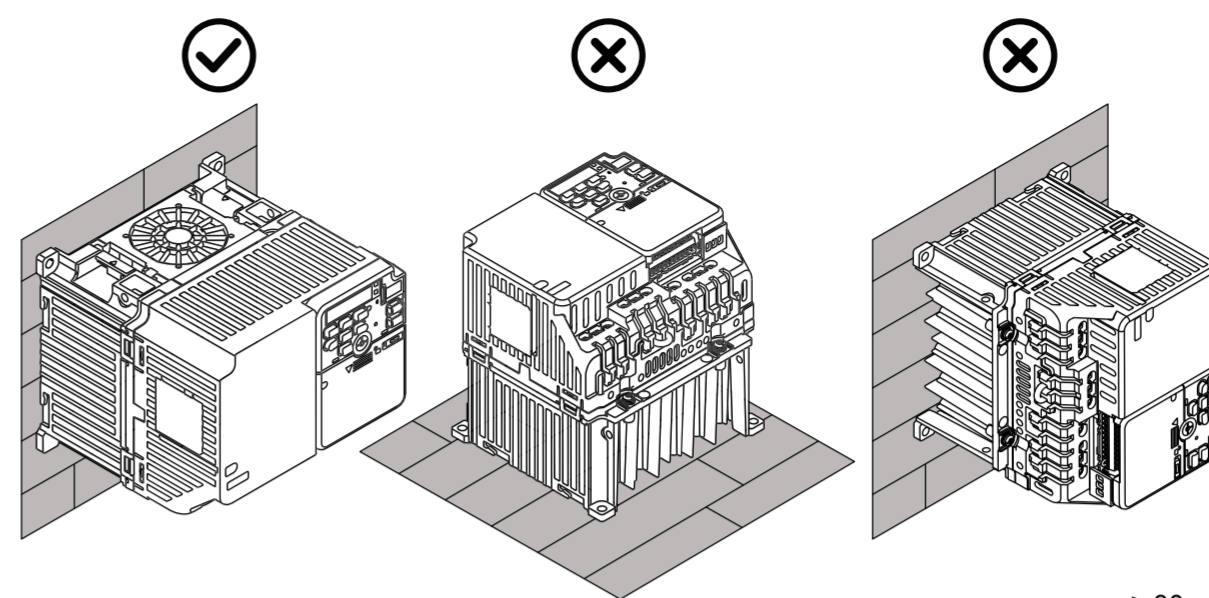
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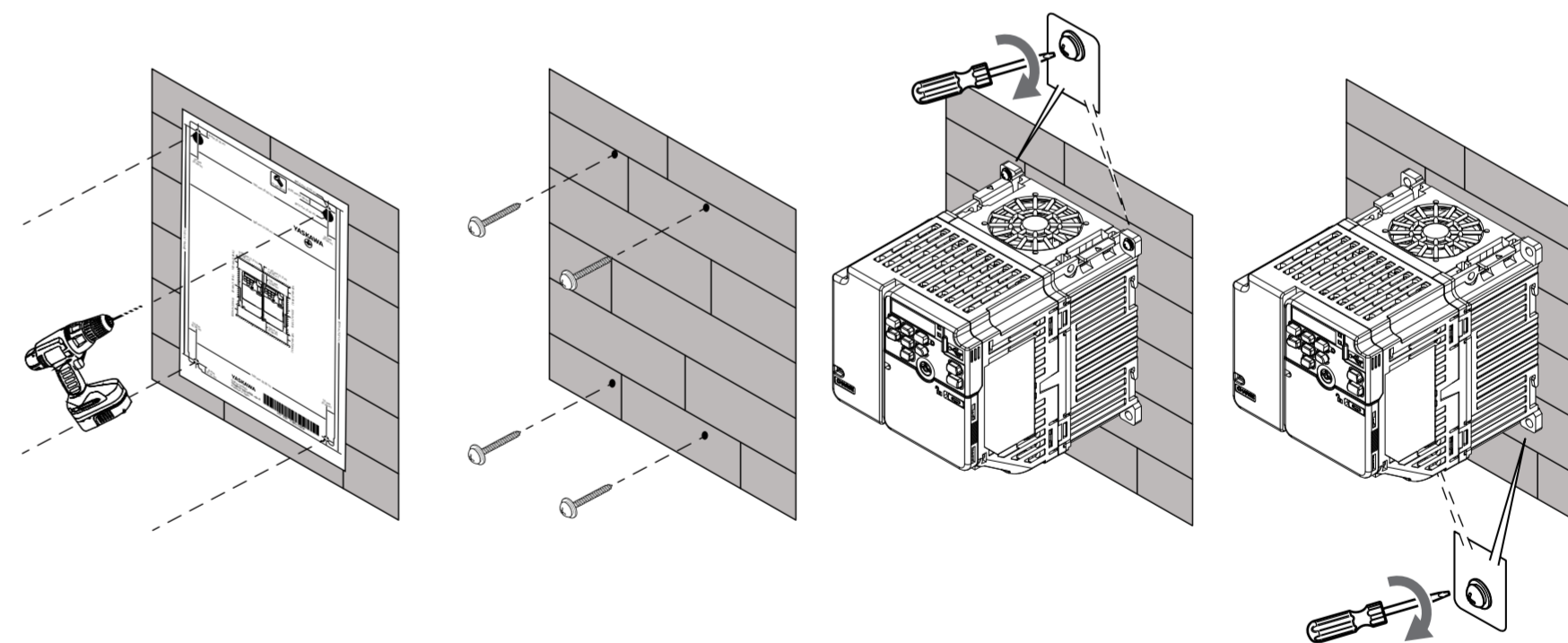
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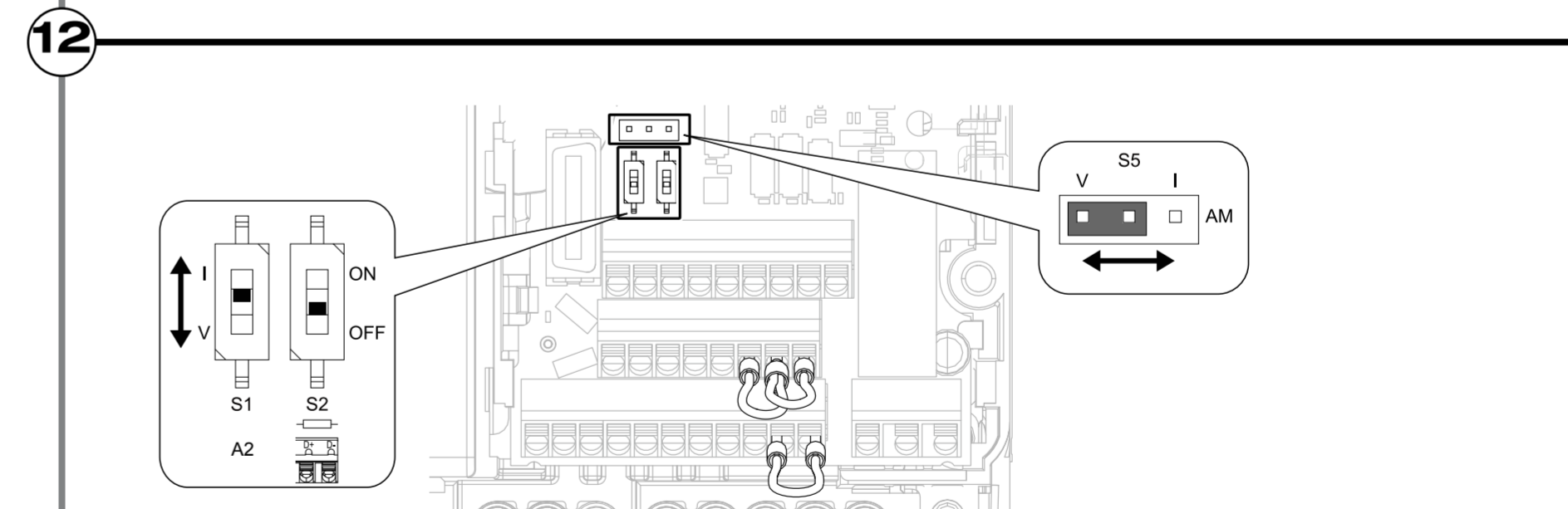
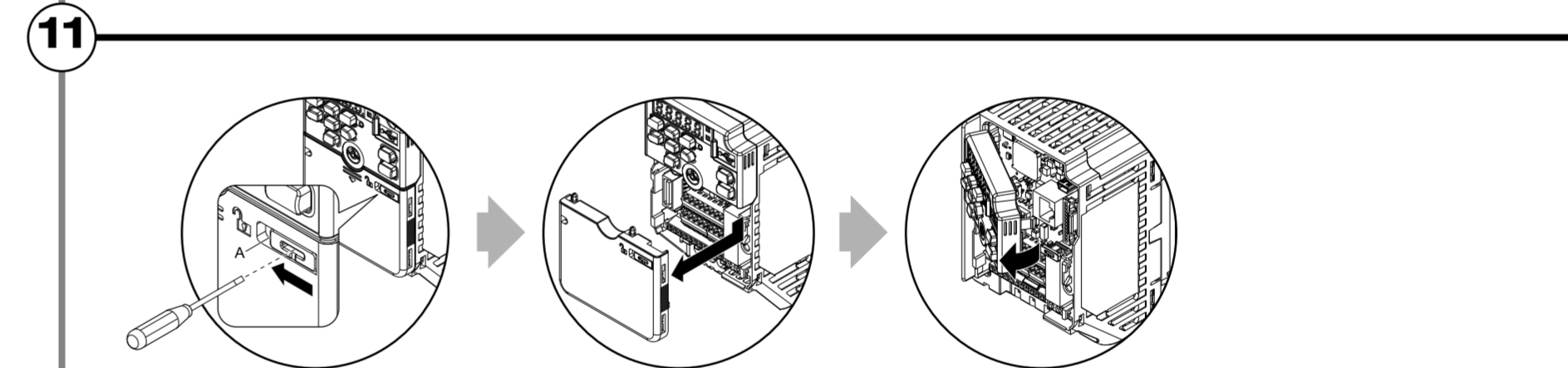
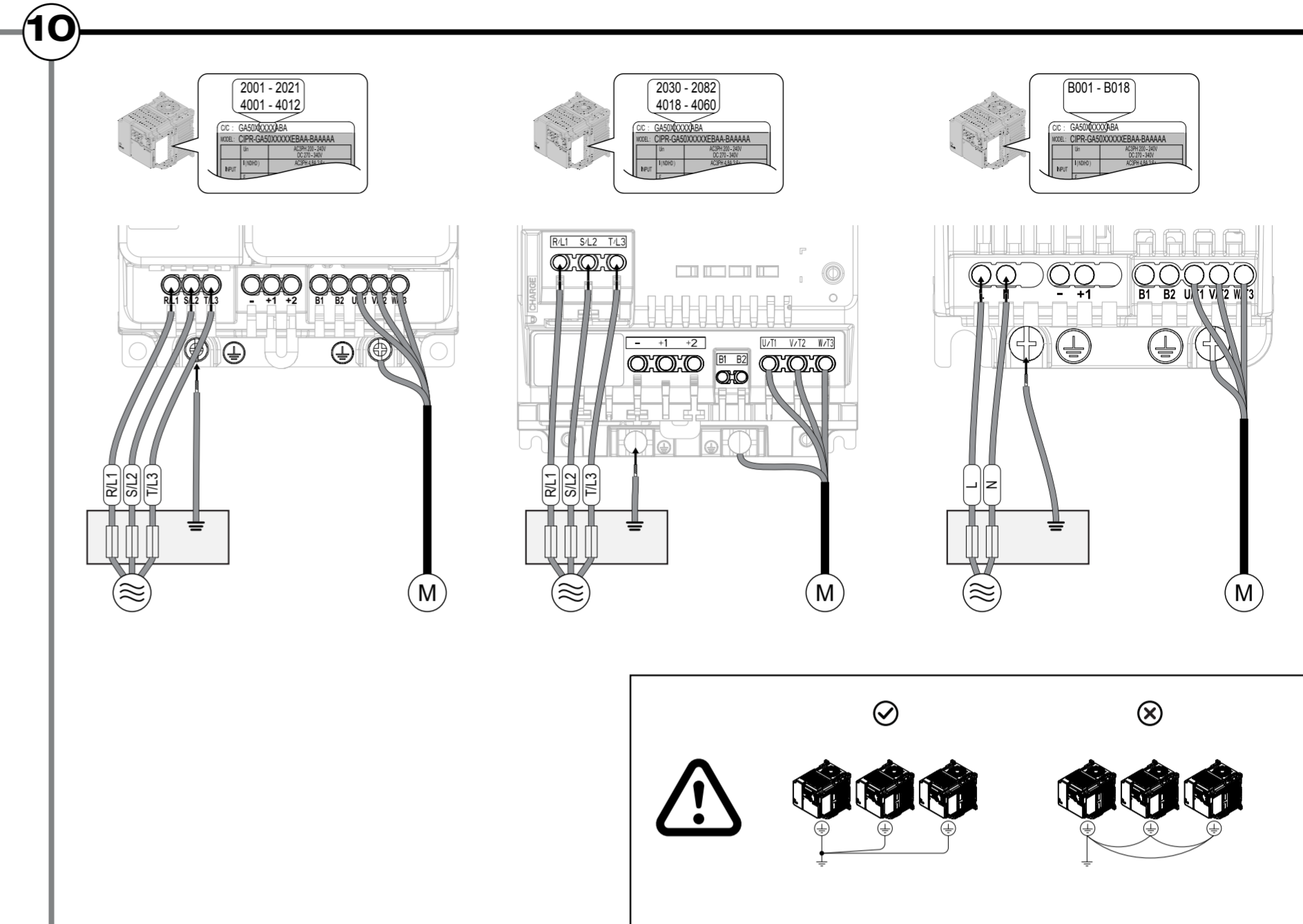
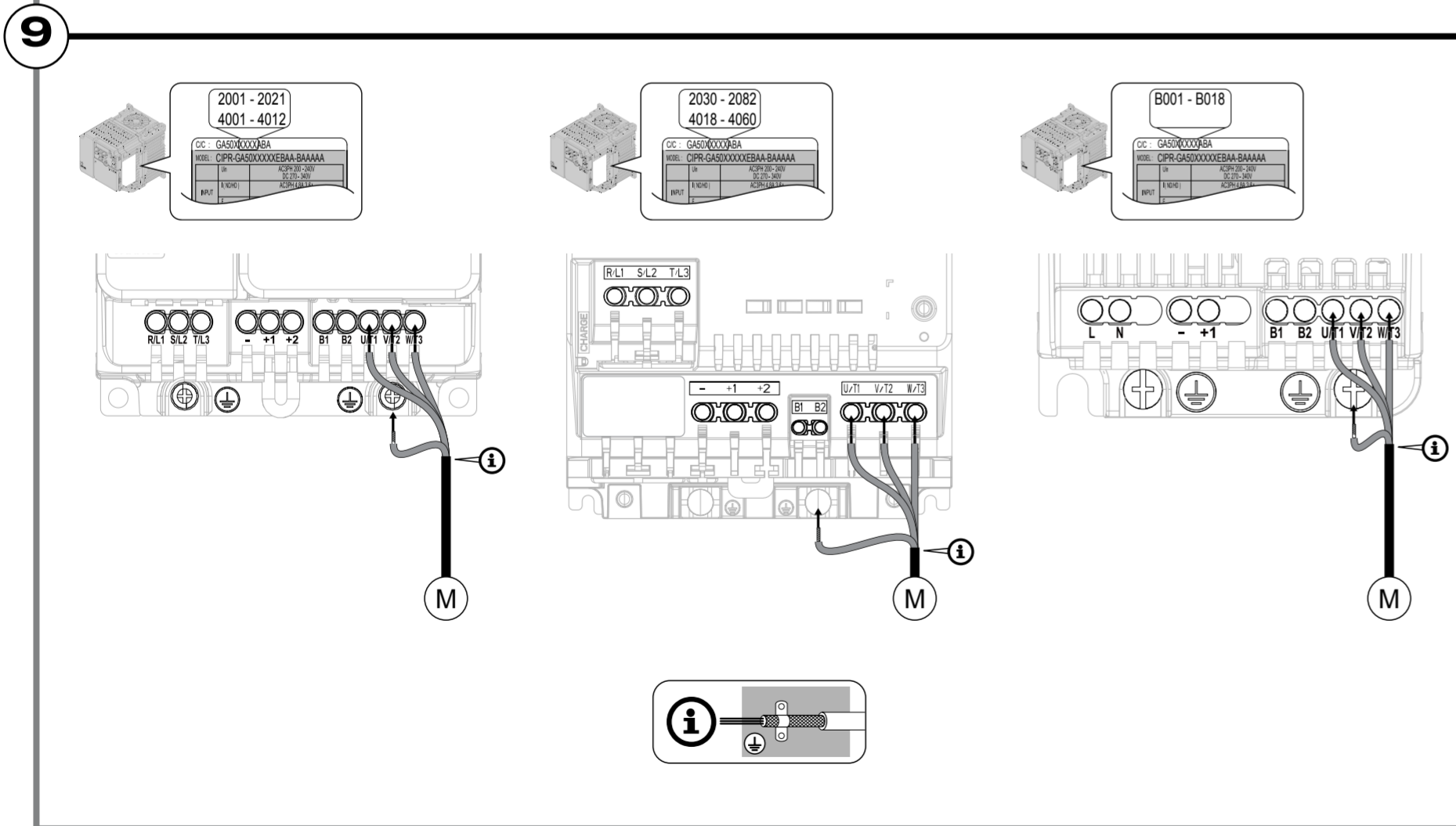
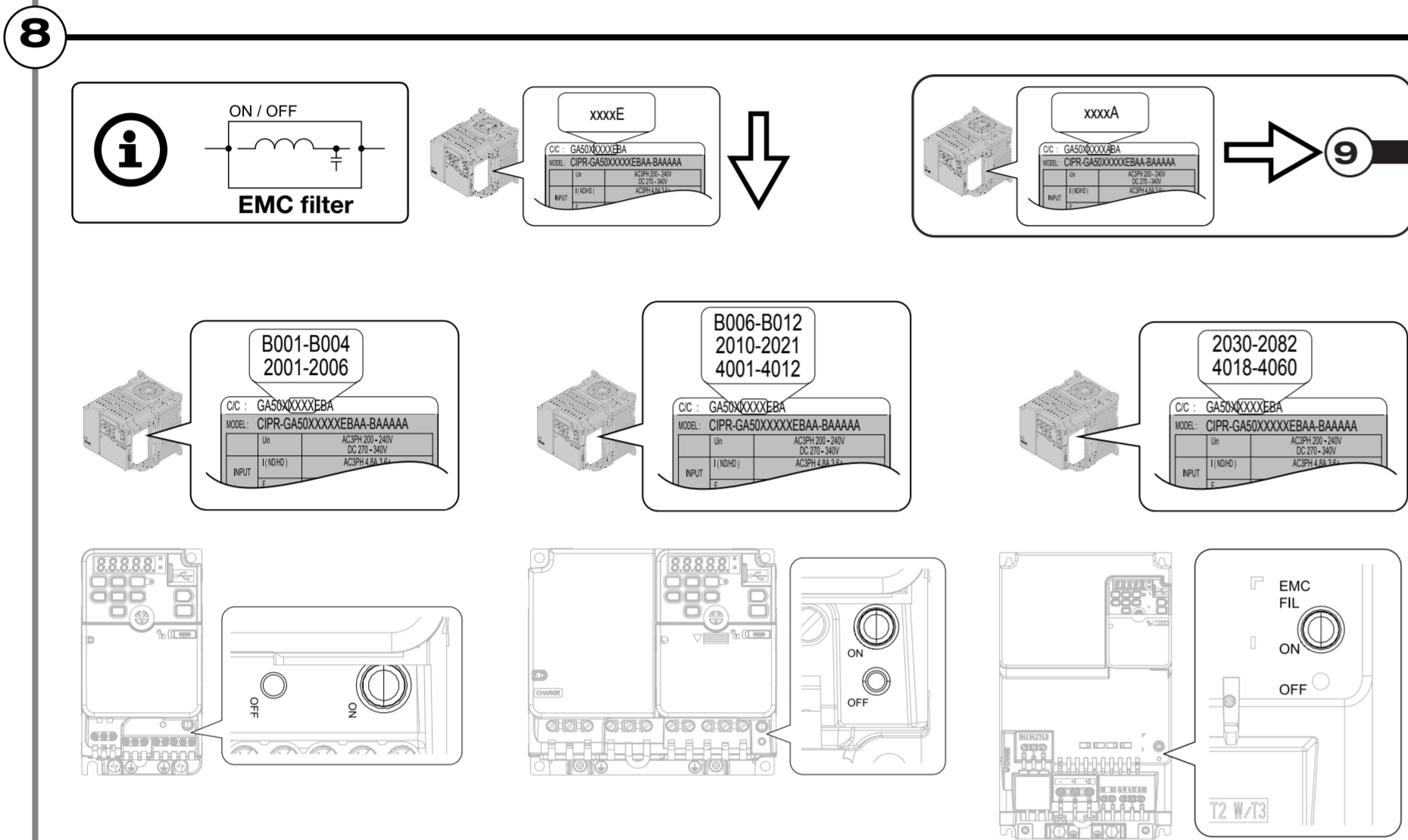
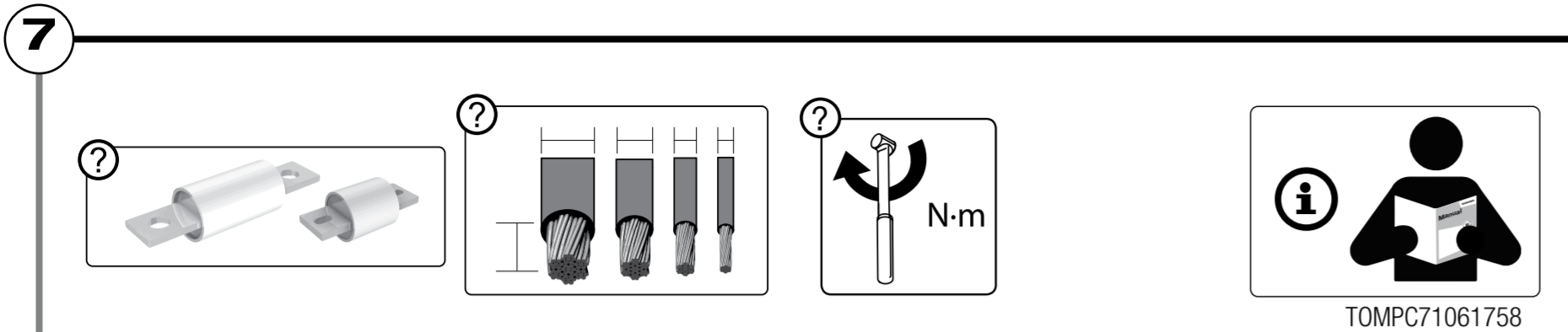


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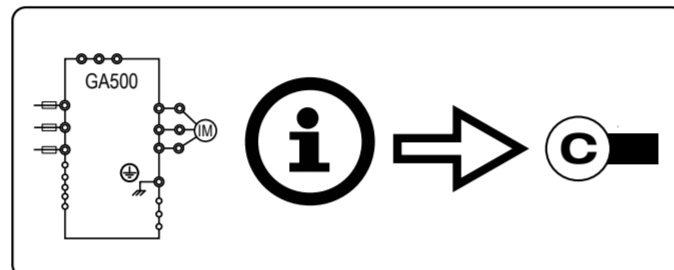
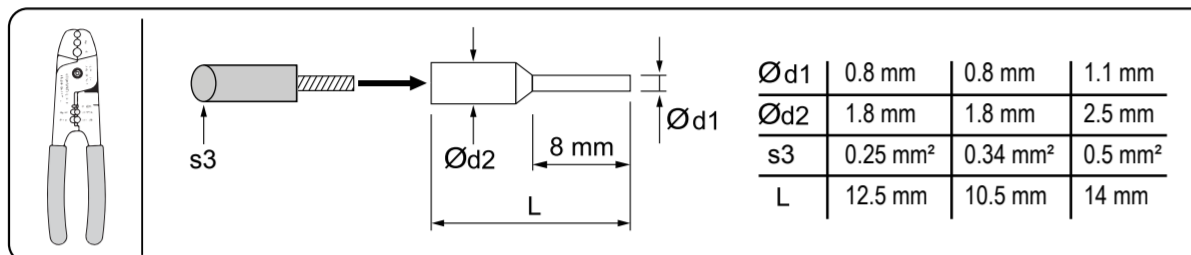
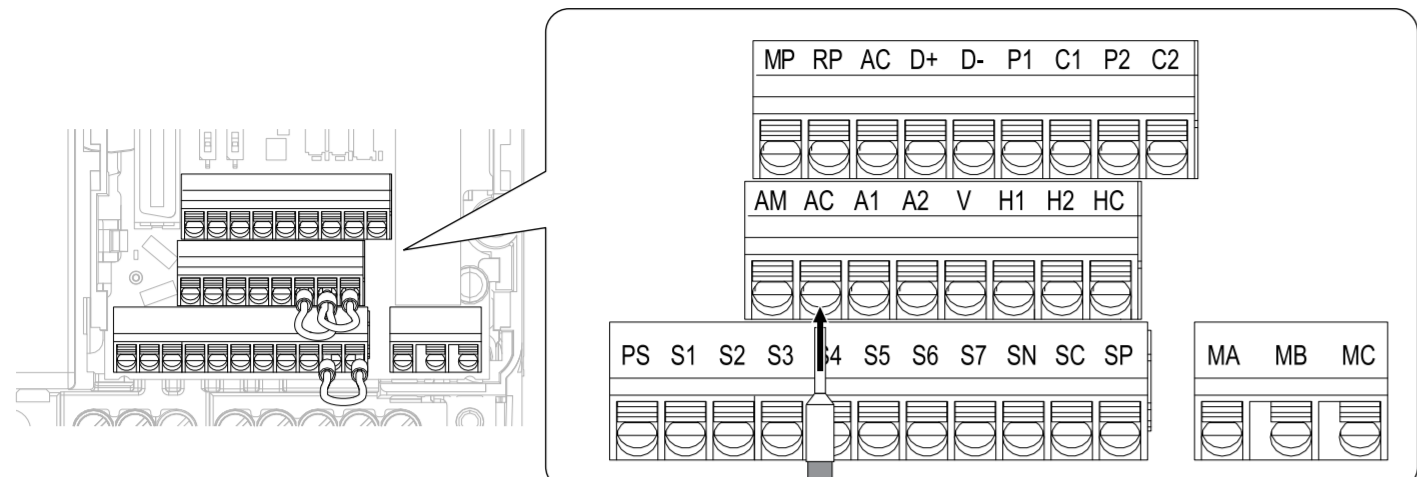


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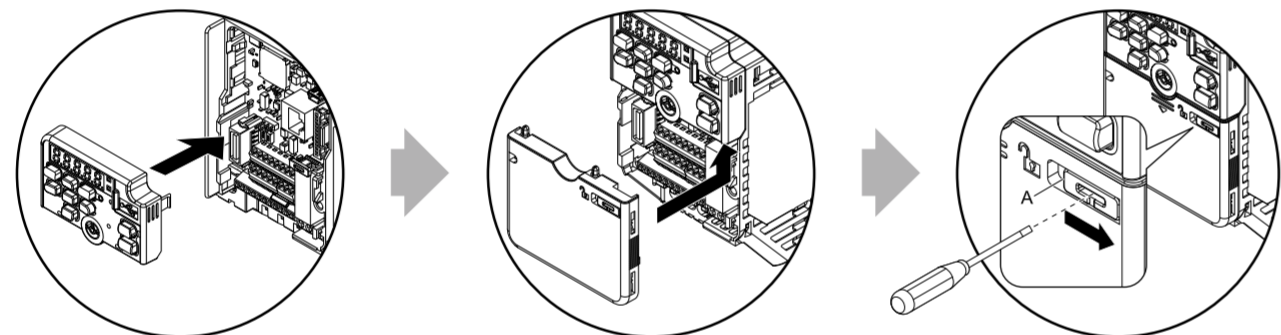




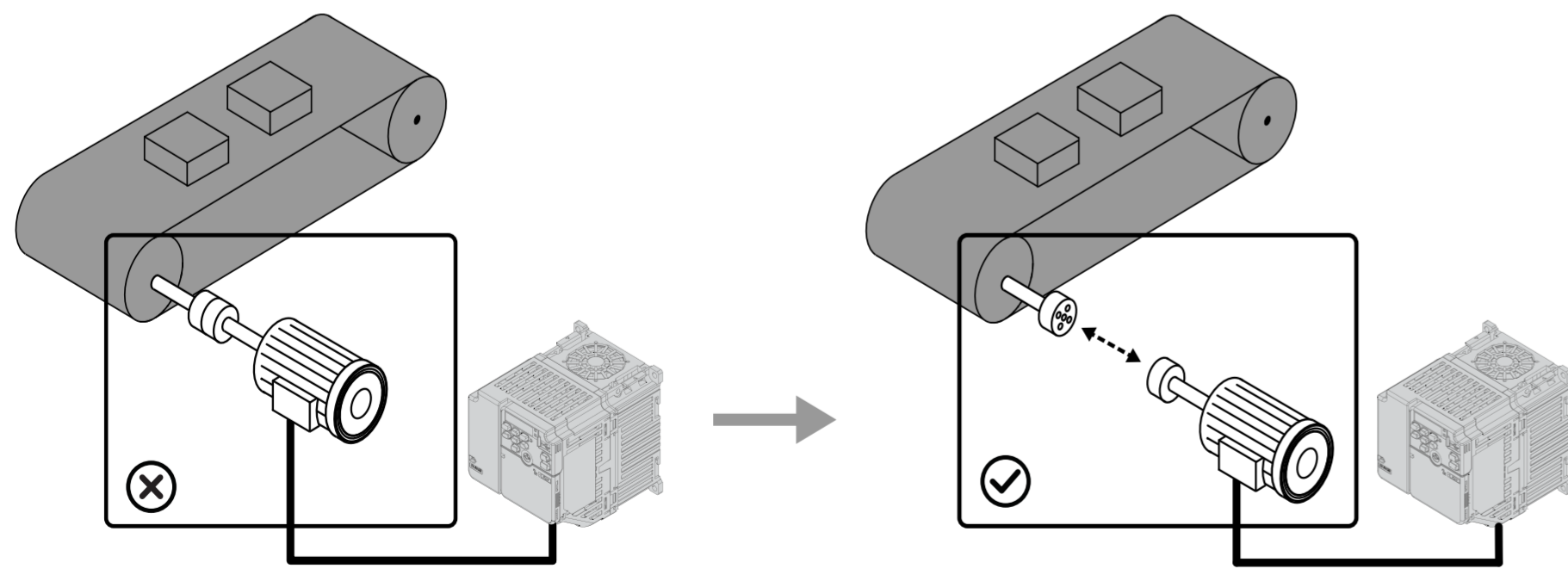
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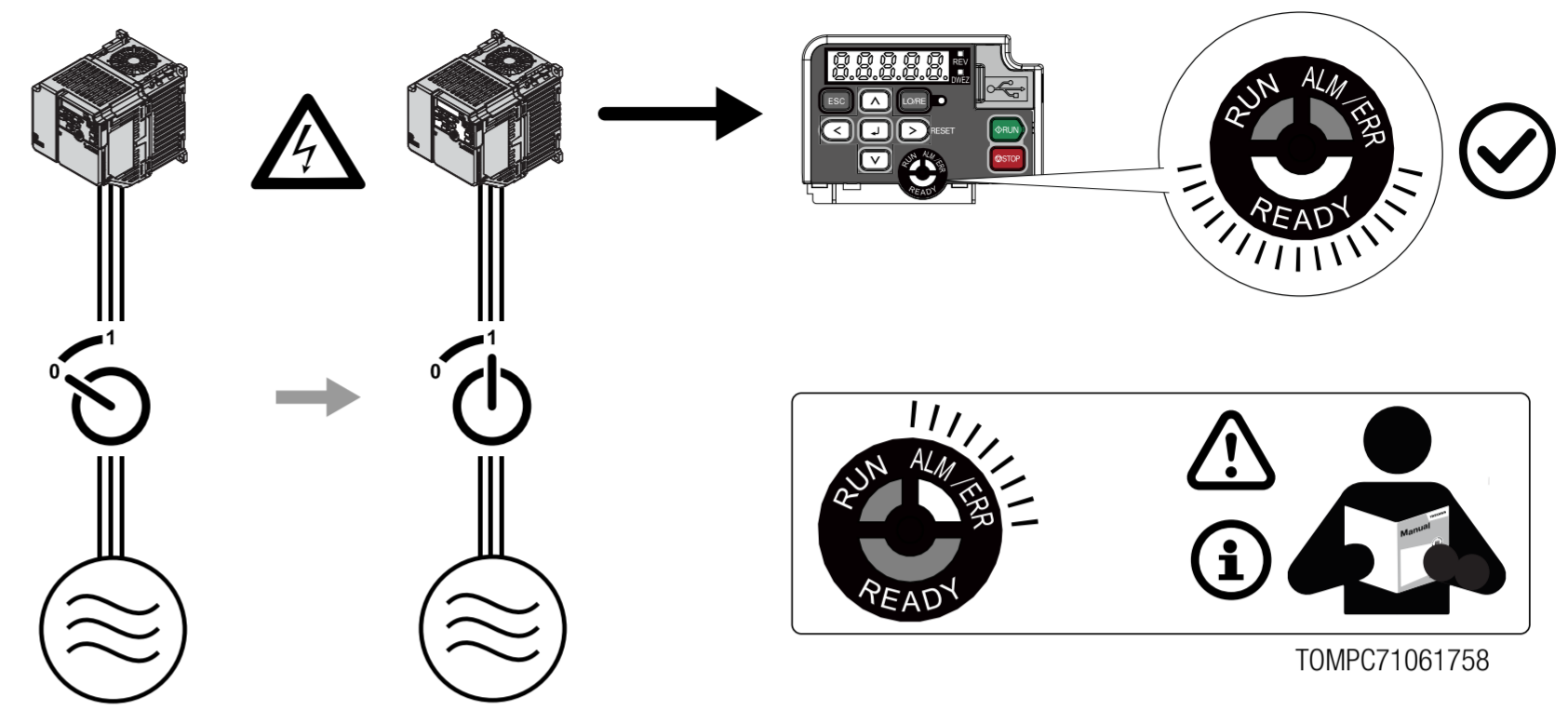
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15



16

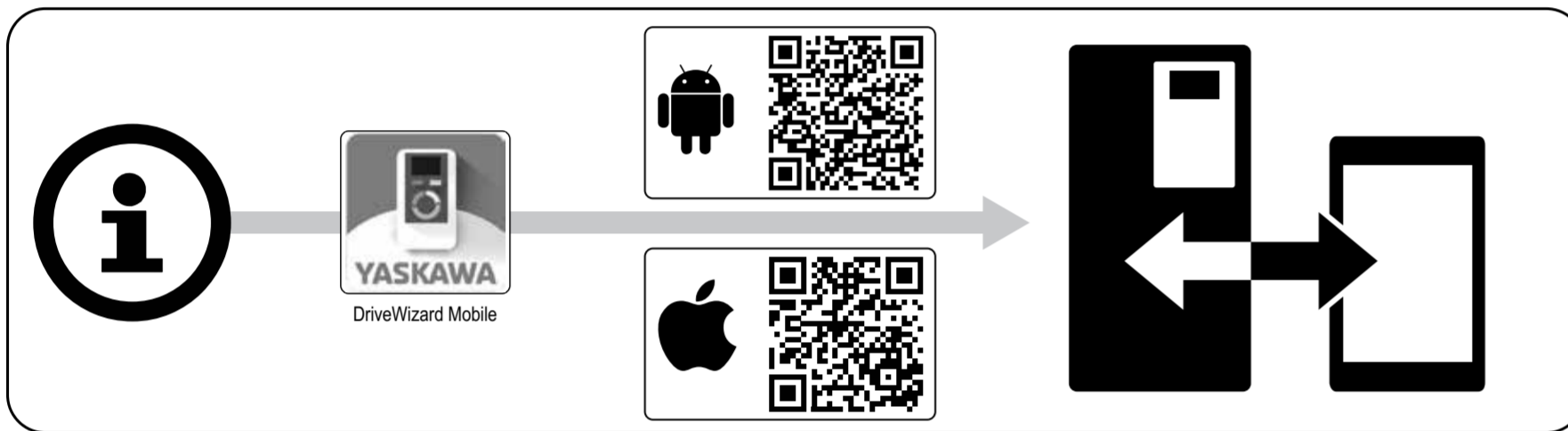
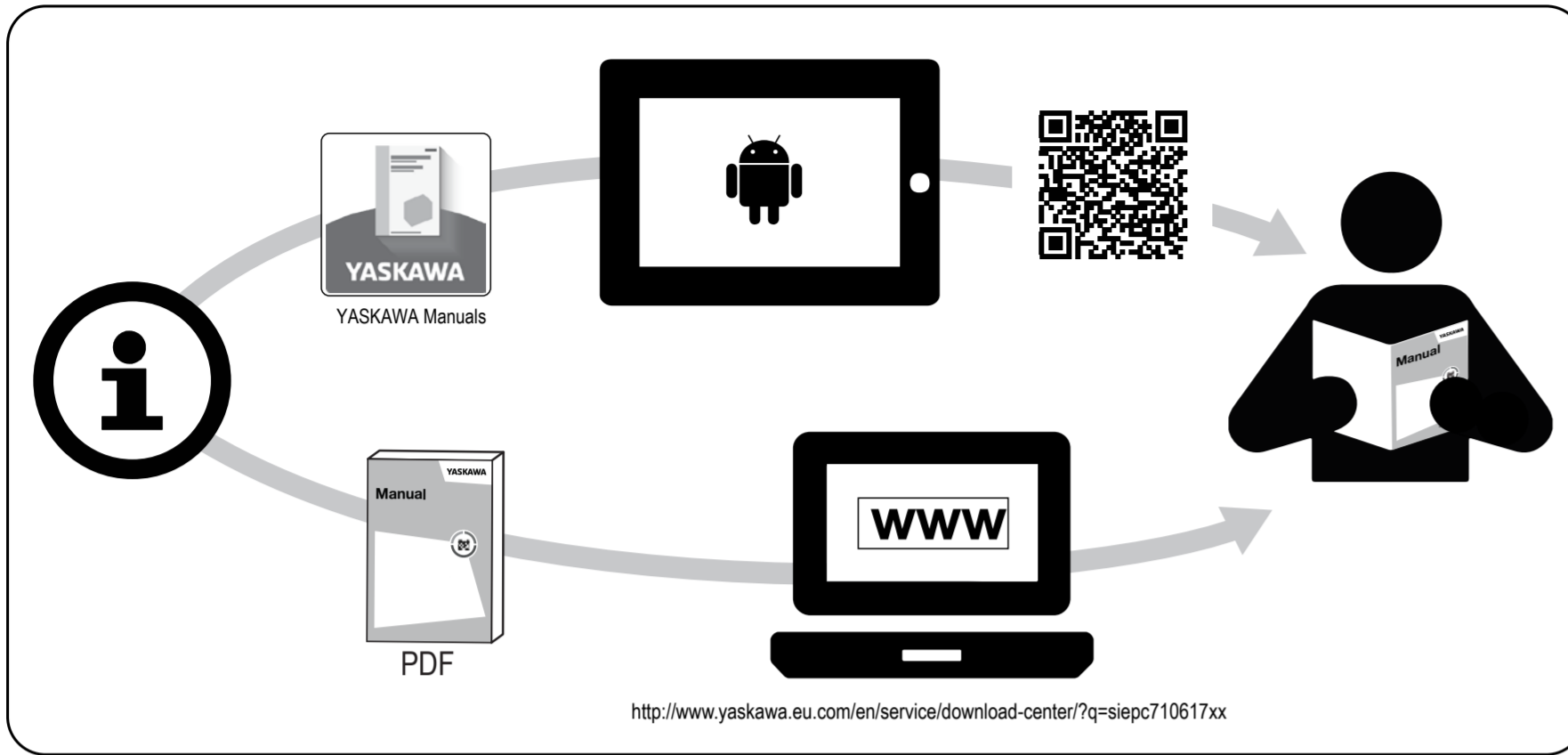


A

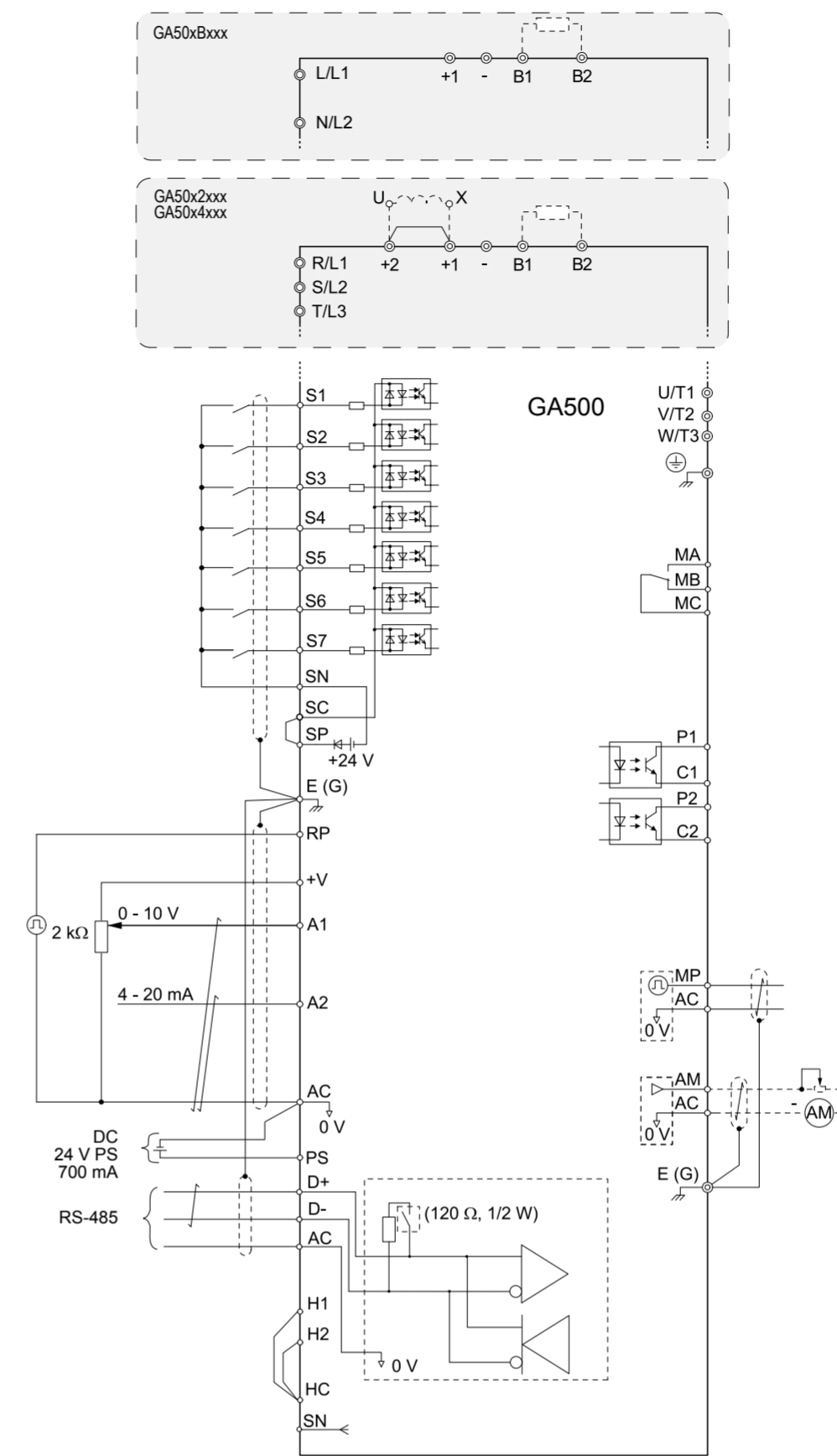
A: Initialization	d: Reference Settings	H: Terminal Functions	o: Keypad-Related Settings			
A1 Initialization	d1 Frequency Reference	H1 Digital Inputs	o1 Keypad Display			
A2 User Parameters	d2 Reference Limits	H2 Digital Outputs	o2 Keypad Operation			
b: Application						
b1 Operation Mode Selection	d3 Jump Frequency	H3 Analog Inputs	o3 Copy Keypad Function			
b2 DC Injection Braking and Short Circuit Braking	d4 Freq. Ref Up/Down & Hold	H4 Analog Outputs	o4 Maintenance Monitors			
b3 Speed Search	d6 Field Weakening/Forcing	H5 Modbus Communication	o5 Log Function			
b4 Timer Function	d7 Offset Frequency	H6 Pulse Train Input/Output	q: DriveWorksEZ Parameters			
b5 PID Control	E: Motor		r: DriveWorksEZ Connections			
b6 Dwell Function	E1 V/f Pattern for Motor 1	L: Protection Functions		T: Motor Tuning		
b8 Energy Saving	E2 Motor 1 Parameters	L1 Motor Protection	T0 Tuning Mode Selection			
C: Tuning				T1 Induction Motor Auto-Tuning		
C1 Accel & Decel Time	E3 V/f Pattern for Motor 2	L2 Power Loss Ride Through	T2 PM Motor Auto-Tuning			
C2 S-Curve Characteristics	E4 Motor 2 Parameters	L3 Stall Prevention	T3 ASR and Inertia Tuning			
C3 Slip Compensation	E5 PM Motor Settings	L4 Speed Detection	T4 EZ Tuning			
C4 Torque Compensation	E9 Motor Setting	L5 Fault Restart	U: Monitors			
C5 Auto Speed Regulator (ASR)	F: Options		U1 Operation Status Monitors			
C6 Duty & Carrier Frequency	F6 Communication Options	L6 Torque Detection	U2 Fault Trace			
	F7 Ethernet Options	L7 Torque Limit	U3 Fault History			
		L8 Drive Protection	U4 Maintenance Monitors			
		n: Special Adjustment		U5 PID Monitors		
		n1 Hunting Prevention	U6 Operation Status Monitors			
		n2 Auto Freq. Regulator (AFR)	U8 DriveWorksEZ Monitors			
		n3 High Slip/Overexcite Braking				
		n5 Feed Forward Control				
		n6 Online Tuning				
		n7 EZ Drive				
		n8 PM Motor Control Tuning				
		nA PM Motor Control Tuning				



B



C



Terminal	Type	Signal Level	Default	
S1			Forward run/Stop	
S2			Reverse run/Stop	
S3	Multi-functional Digital Input 1 to 7	Photocoupler 24 V, 6 mA	External fault	
S4			Fault reset	
S5			Multi-step speed 1	
S6			Multi-step speed 2	
S7			Jog reference selection	
SN			MFDI power 0 V	-
SC			MFDI common	24 V, 150 mA maximum (for external fuse)
SP	MFDI power +24 VDC	-	-	
H1	Safe disable input 1	24 V, 6 mA	-	
H2	Safe disable input 2	Internal impedance: 4.7 kΩ	-	
HC	Safe disable common	Minimum OFF time: 3 ms	-	
RP	Master frequency reference pulse train input	Response frequency: 0 ~ 32 kHz H level duty: 30 ~ 70% H level voltage: 3.5 ~ 13.2 V L level voltage: 0.0 ~ 0.8 V Input impedance: 3 kΩ	-	
+V	Frequency setting power supply	10.5 V (20 mA maximum)	-	
A1	Multi-functional Analog Input 1	0 V ~ +10 V/100% (input impedance: 20 kΩ)	Master frequency reference	
A2	Multi-functional Analog Input 2	0 V ~ +10 V/100% (input impedance: 20 kΩ) 4 mA ~ 20 mA/100%, 0 mA ~ 20 mA/100% (input impedance: 250 Ω)	Combined w/ A1	
AC	Common	0 V	-	
E(G)	Connect shielded cable	-	-	
MA	Multi-Functional Digital Output	30 VDC, 10 mA ~ 1 A	Fault	
MB	Output	250 VAC, 10 mA ~ 1 A	Fault	
MC	Common	Minimum load: 5 V, 10 mA	-	
P1	Multi-functional Photocoupler Output 1	48 VDC, 2 mA ~ 50 mA	During run	
C1	Output 1		Speed agree 1	
P2	Multi-functional Photocoupler Output 2			
C2	Output 2			
MP	Pulse train out	32 kHz maximum	Output frequency	
AM	Analog Monitor Output	0 V ~ +10 V/0% ~ 100% 4 mA ~ 20 mA	Output frequency	
AC	Common	0 V	-	
PS	External 24 V PS input	21.6 VDC ~ 26.4 VDC, 700 mA	-	
AC	External 24 V PS ground	0V	-	
D+	Communication +, MEMOBUS/Modbus, RS-485	115.2 kbps maximum	-	
D-	Communication -		-	
AC	Common	0 V	-	