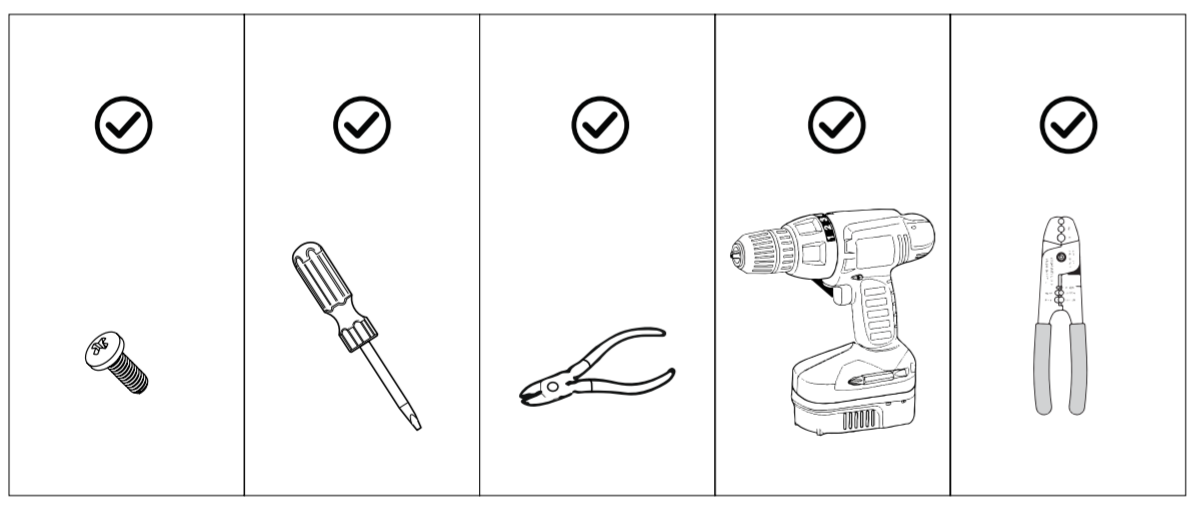


1

VOLTS	≧
KW / HP	≧
AMPS	≧
HERTZ	≧

2

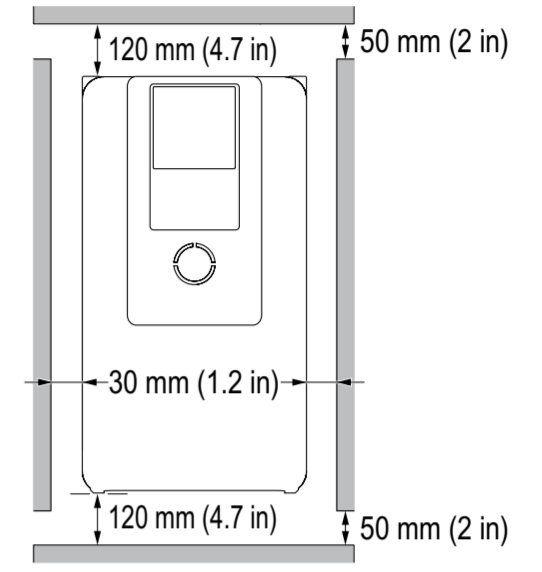
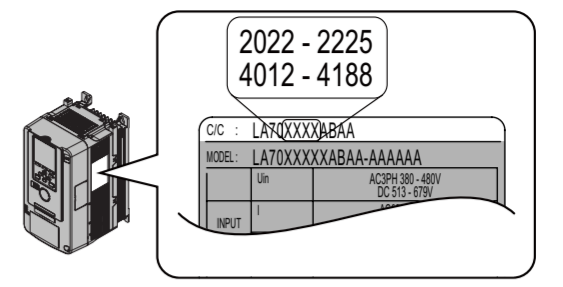
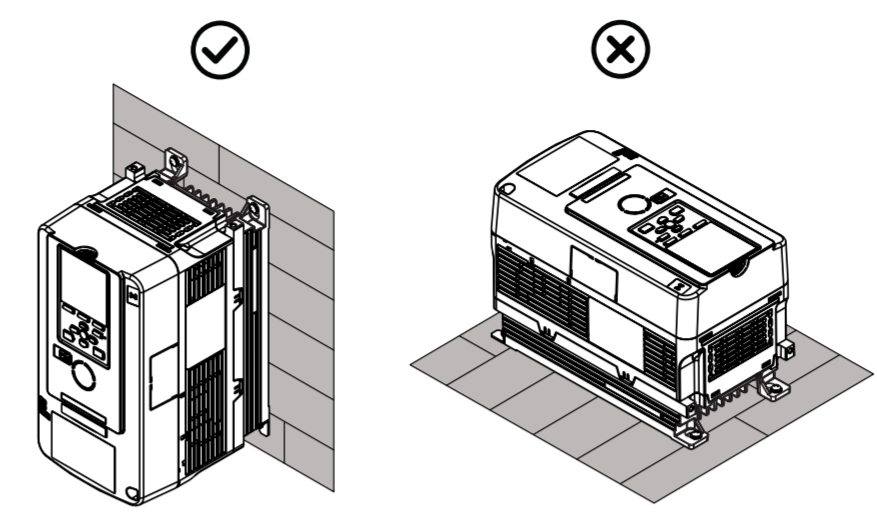


3

• 10 Hz - 20 Hz: 1 G
• 20 Hz - 55 Hz: 0.6 G

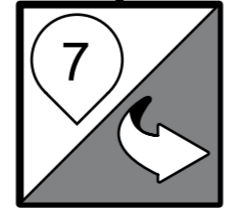
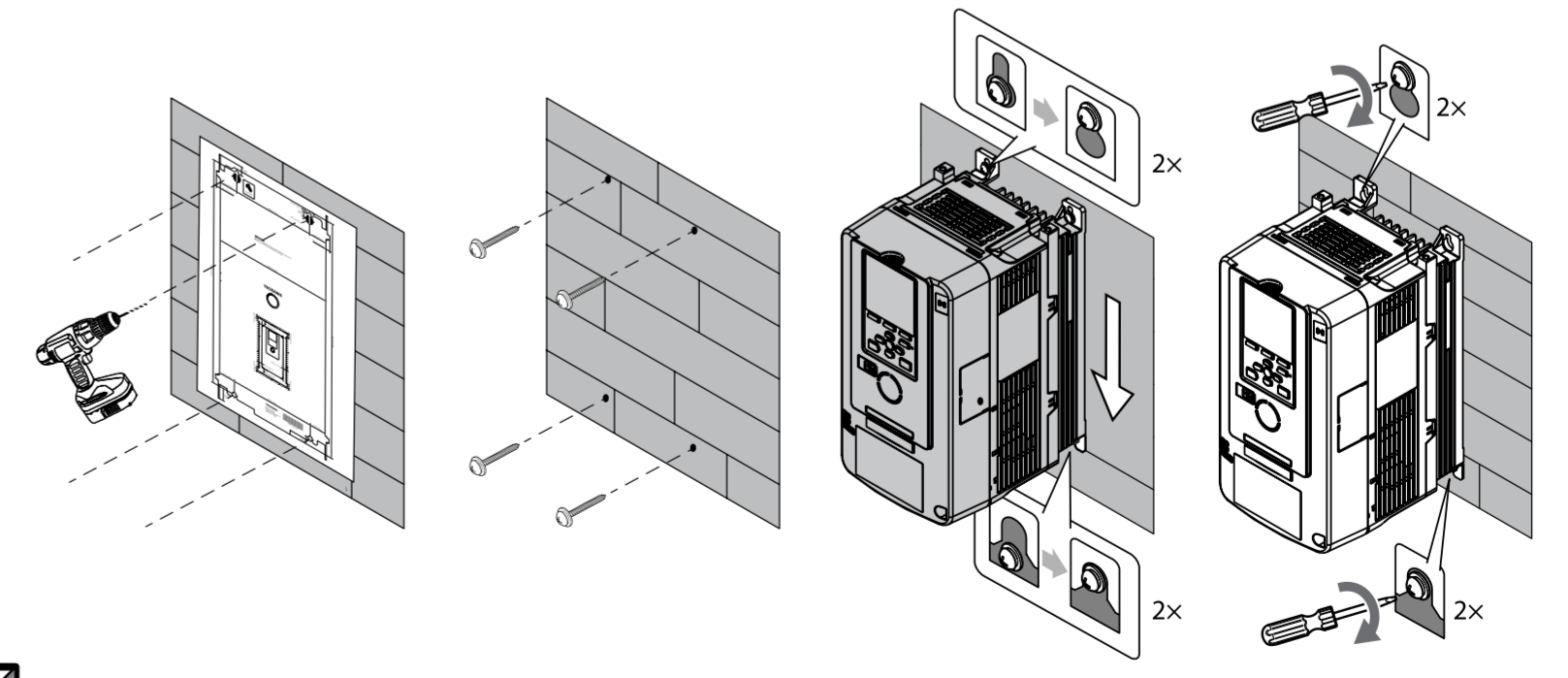
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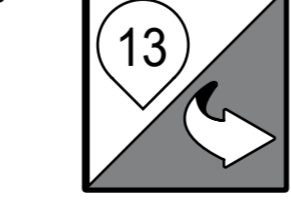
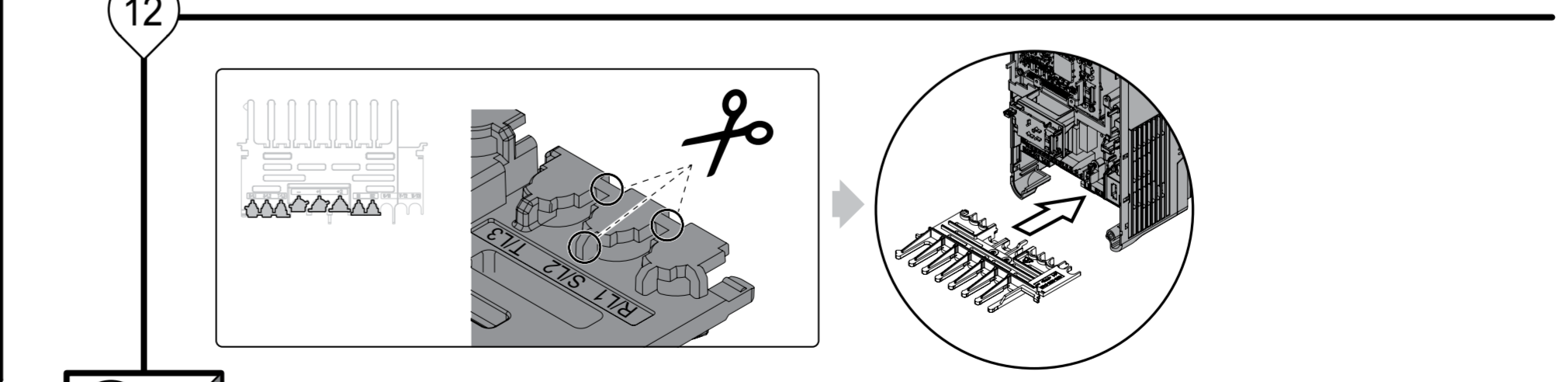
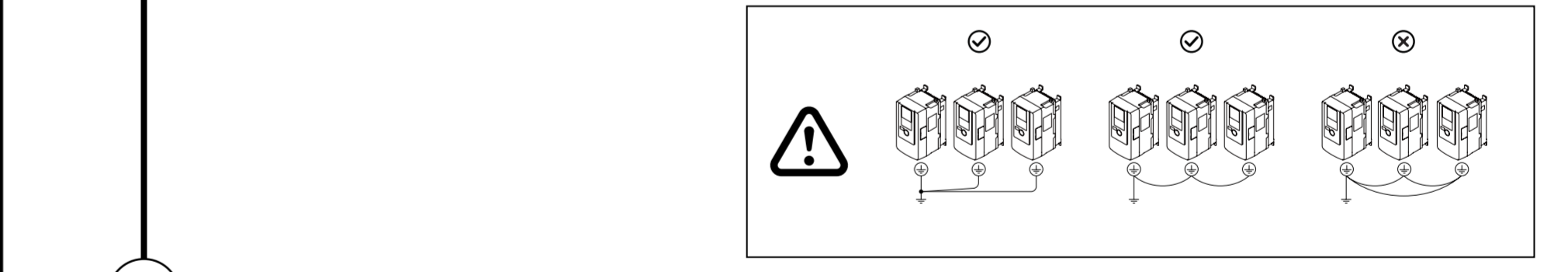
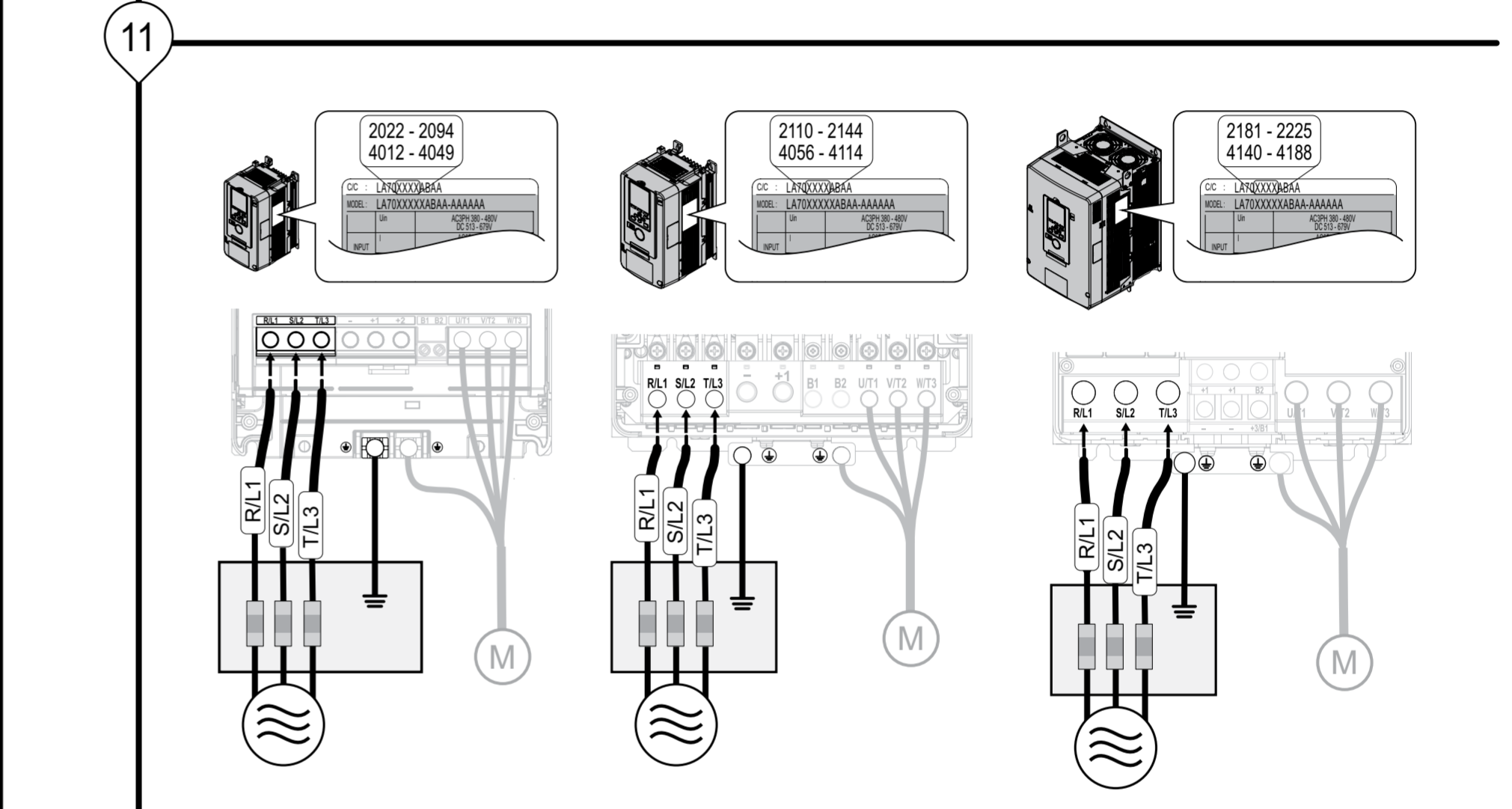
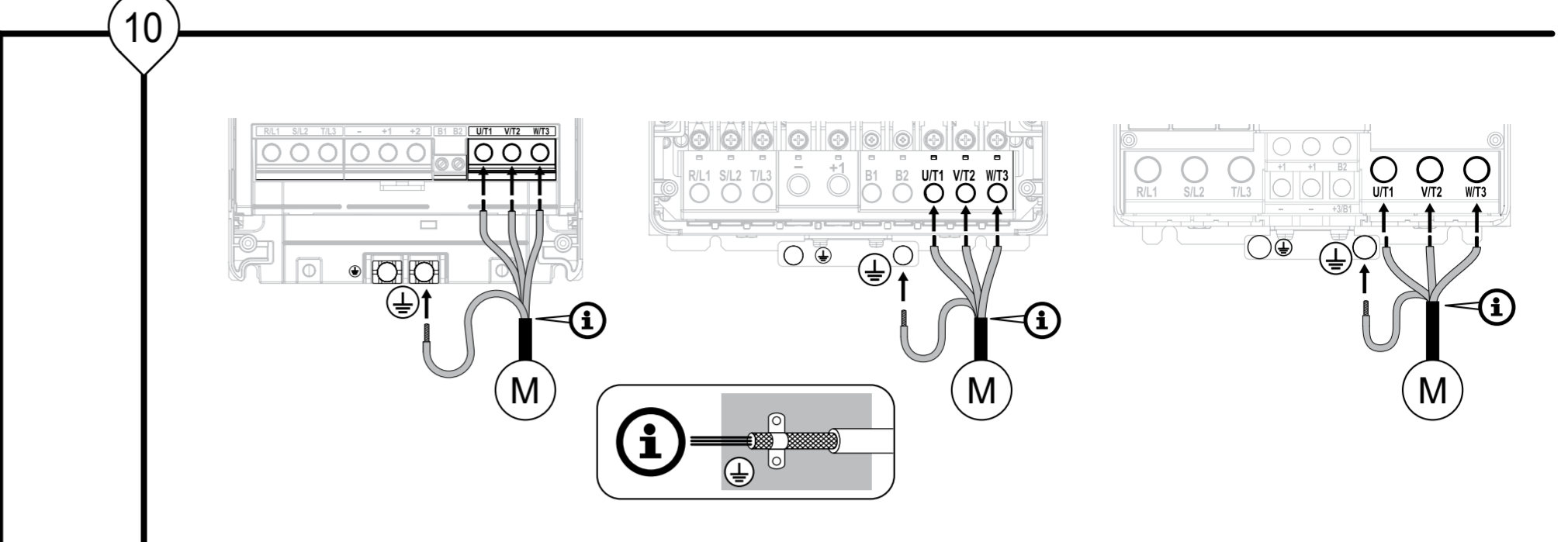
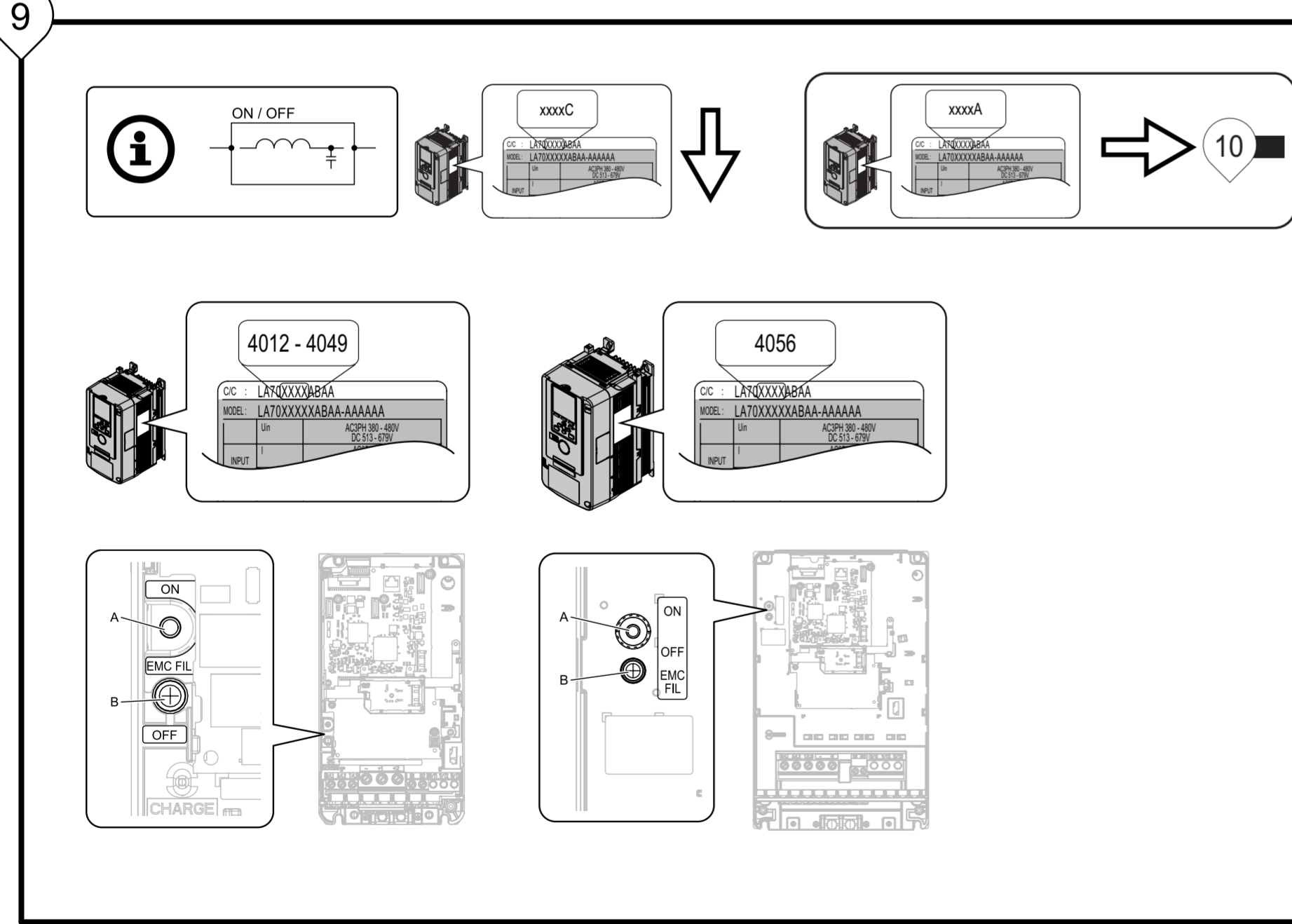
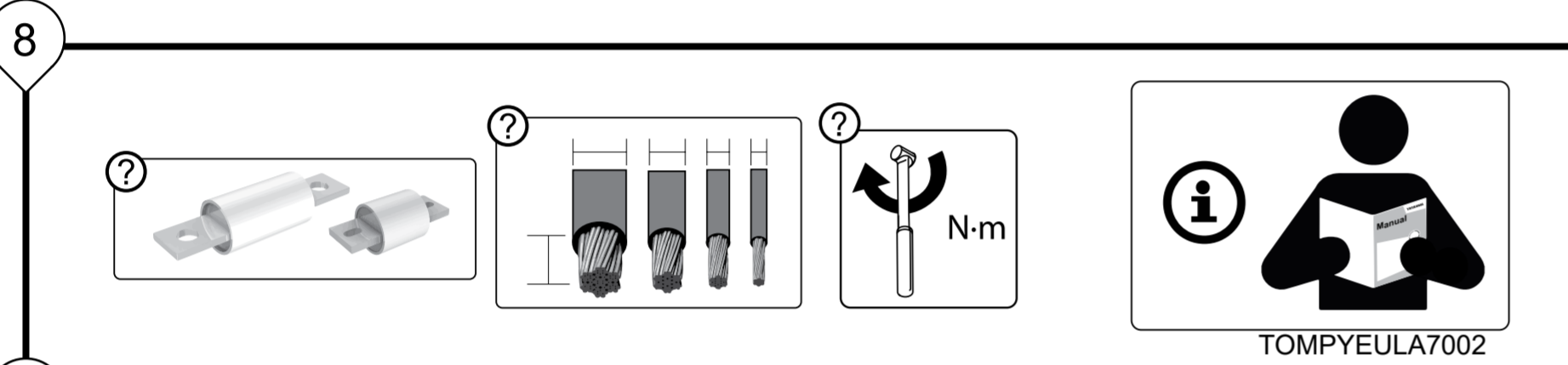
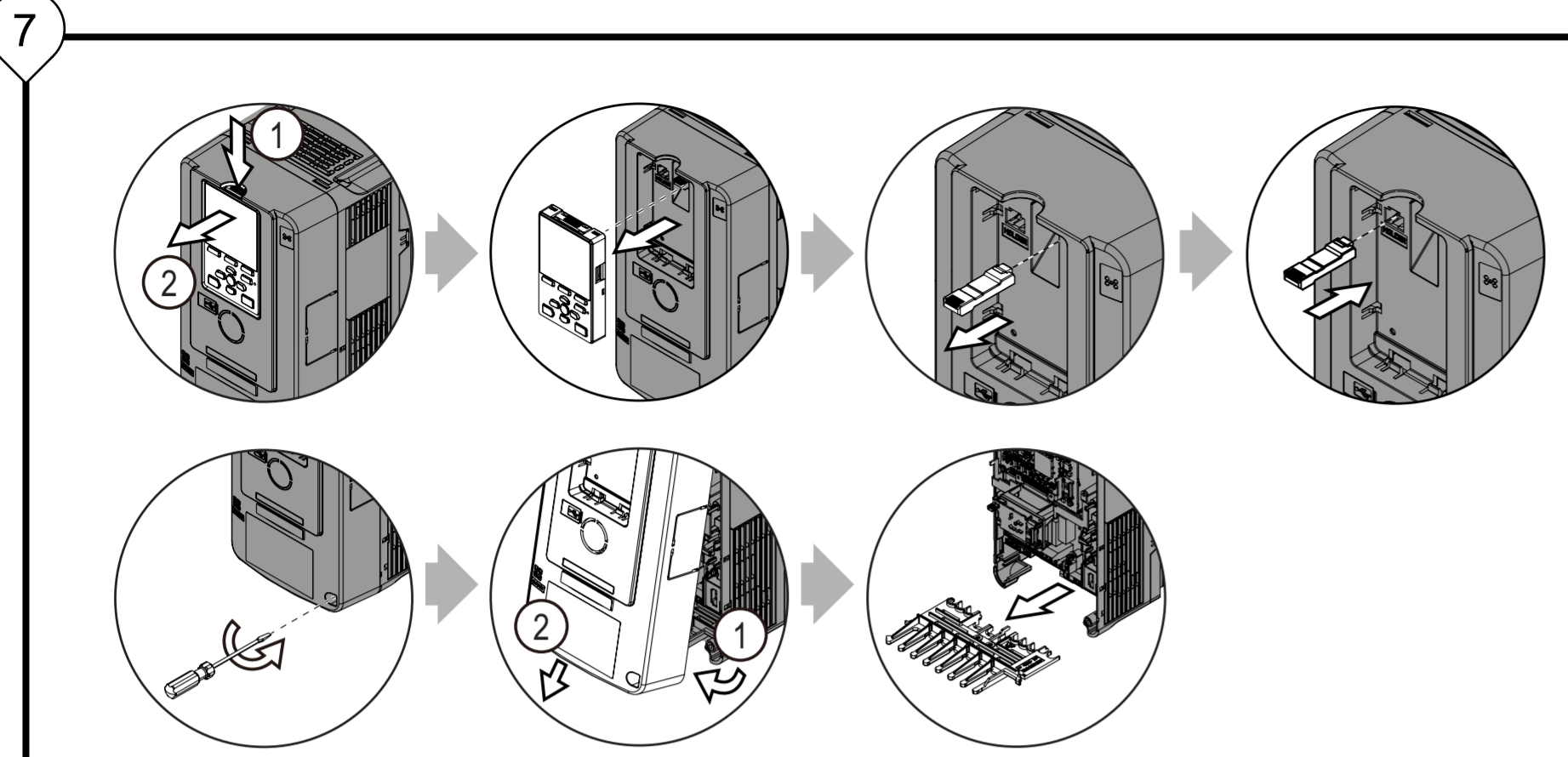
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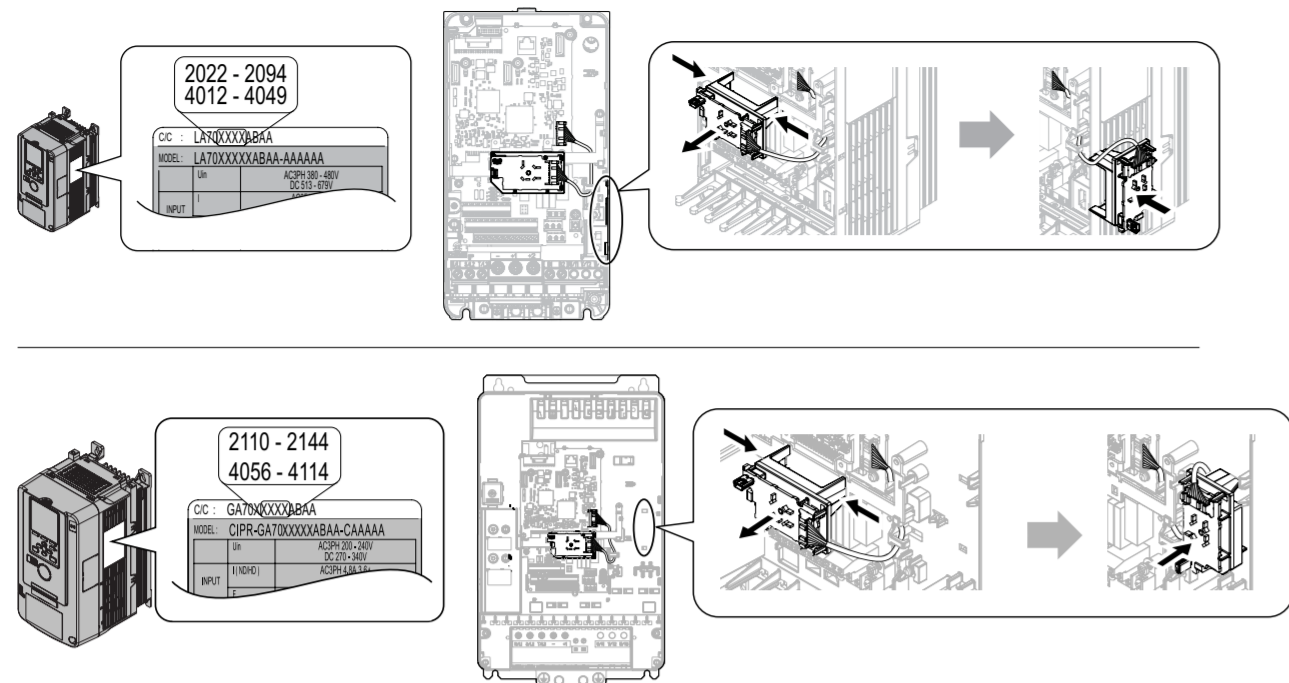
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6

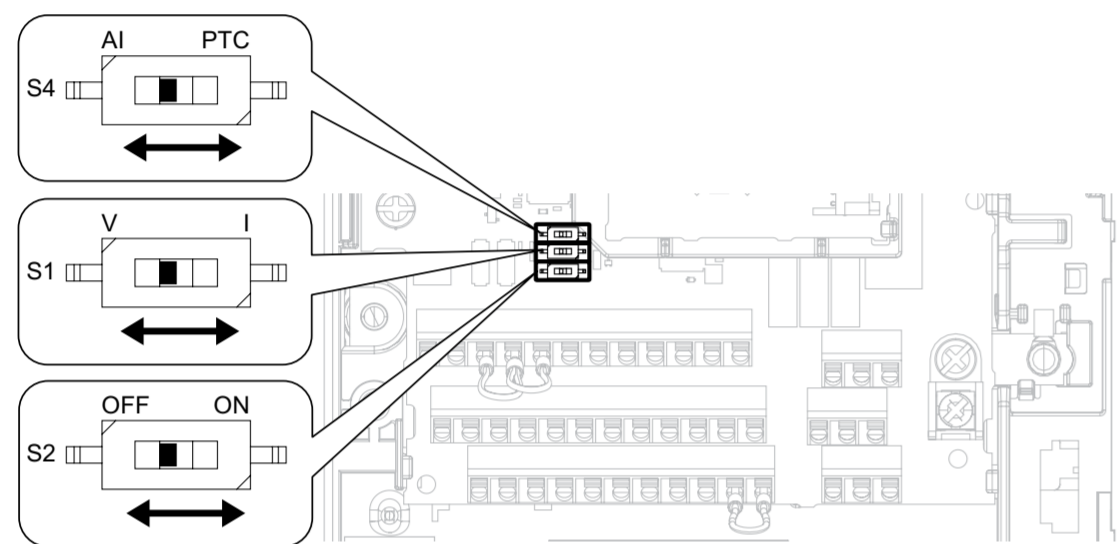




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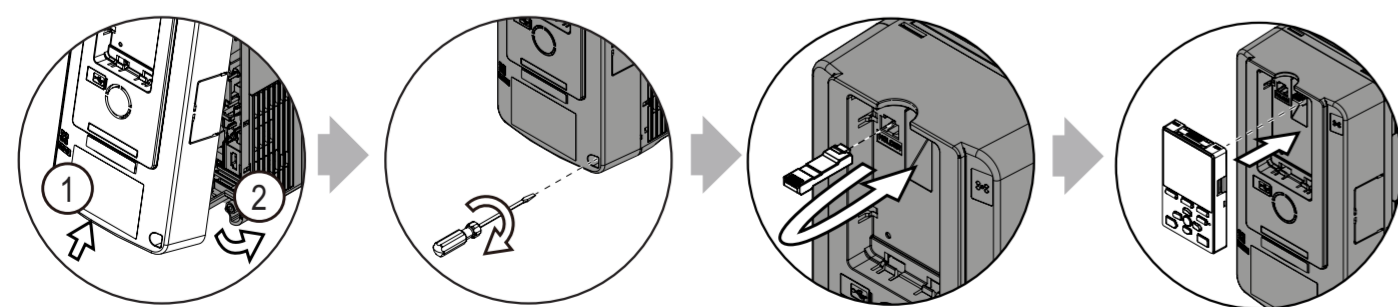
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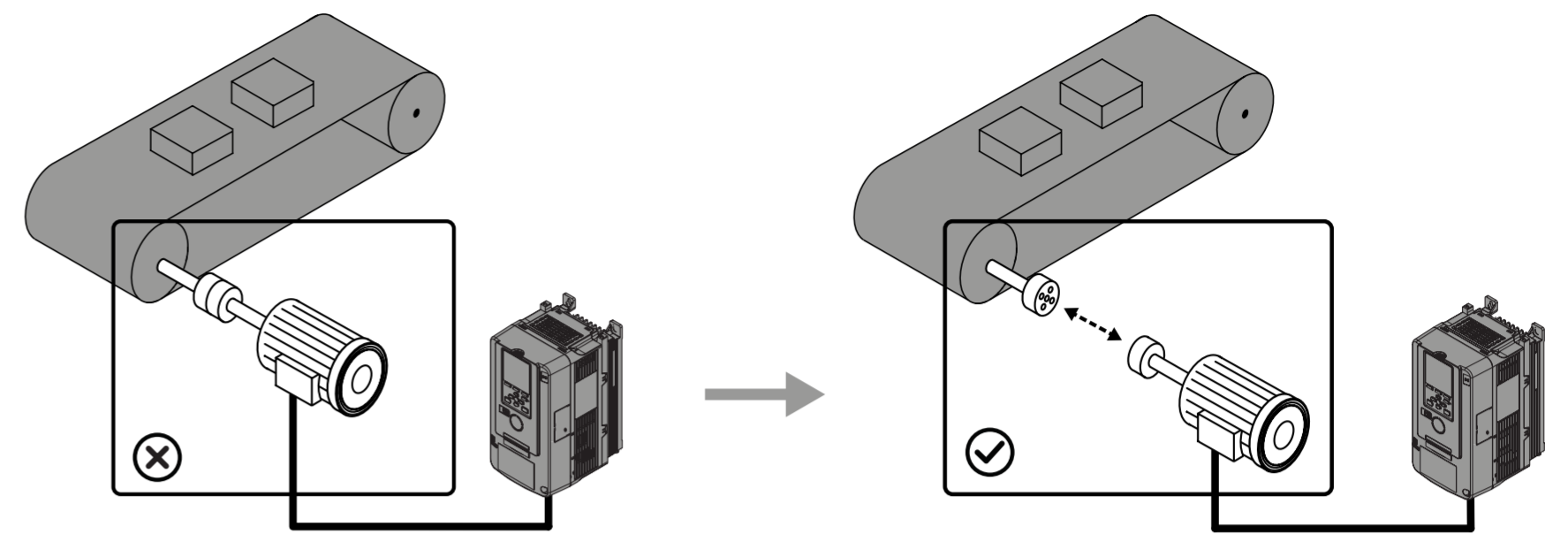
15

Ød1	0.8 mm	0.8 mm	1.1 mm
Ød2	2.0 mm	2.0 mm	2.5 mm
s3	0.25 mm ²	0.34 mm ²	0.5 mm ²
L	12.5 mm	12.5 mm	14 mm

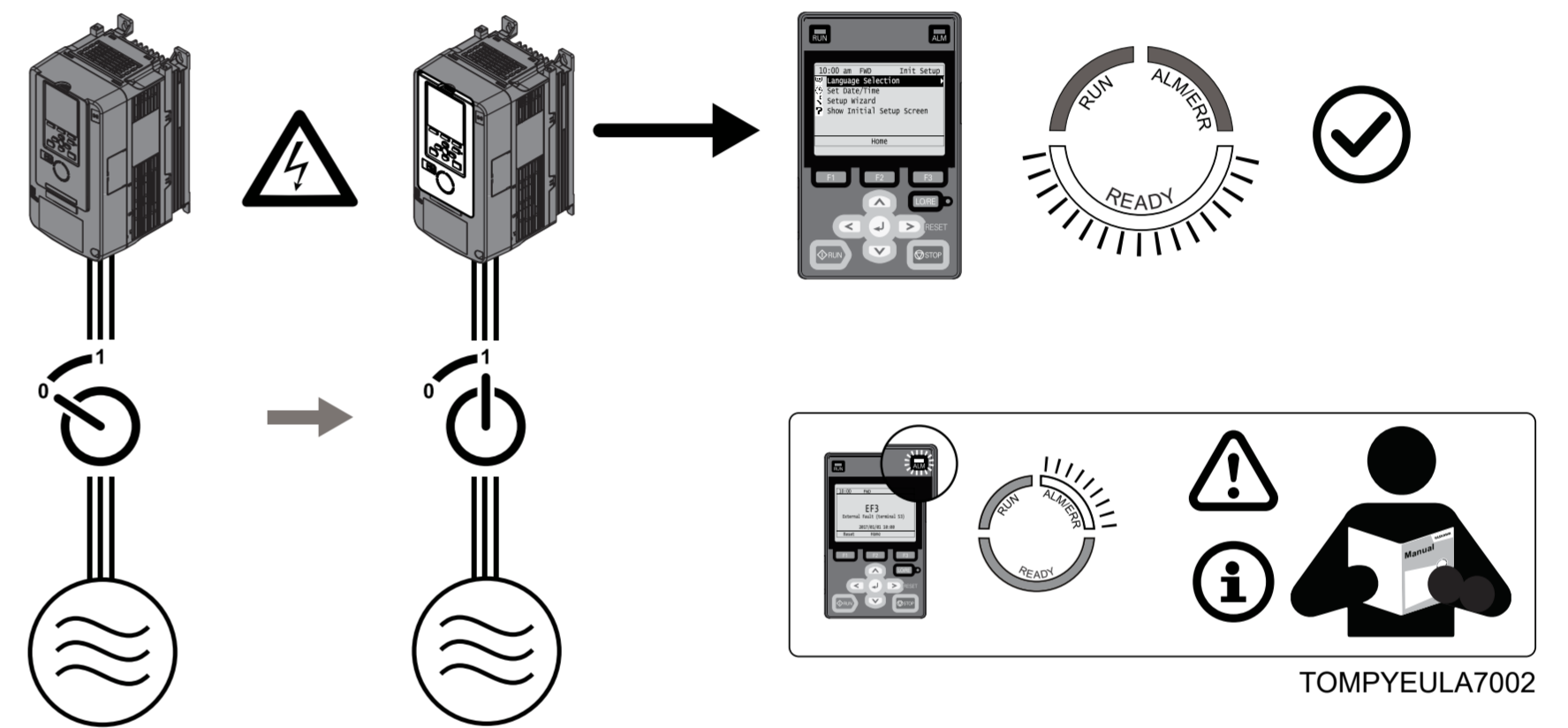
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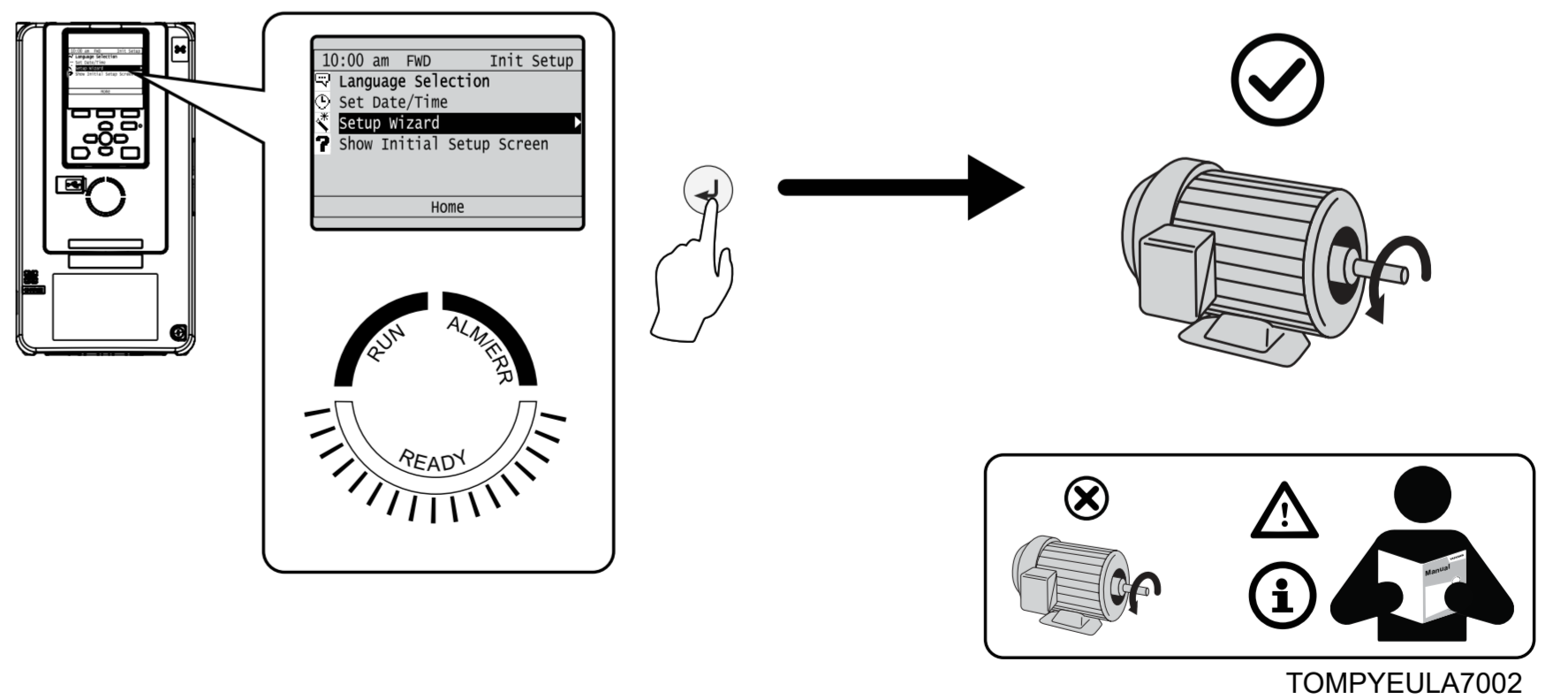
17



18




19




A

A: Initialization Parameters		E: Motor Parameters		L: Protection Functions		S: Elevator Parameters	
A1	Initialization	E1	V/f Pattern for Motor 1	L1	Motor Protection	S1	Brake/Contactor Sequence
A2	User Parameters	E2	Motor 1 Parameters	L2	Undervoltage Detection	S2	Elevator Slip Compensation
b: Application		E3	V/f Pattern for Motor 2	L3	Stall Prevention	S3	Start/Stop Optimization
b1	Operation Mode Selection	E4	Motor 2 Parameters	L4	Speed Detection	S4	Rescue Operation
b2	Magnetic Flux Compensation	E5	PM Motor Settings	L5	Automatic Fault Reset	S5	Elevator Functionality
b4	Timer Function	F: Options		L6	Torque Detection	S6	Elevator Error Detection
b6	Dwell Function	F1	Encoder Option Setup	L7	Torque Limit	T: Auto-Tuning	
b7	Droop Control	F3	Digital Input Option	L8	Torque Limit	T0	Tuning Mode Selection
b8	Energy Saving	F4	Analog Output Option	L9	Drive Protection	T1	Induction Motor Auto-Tuning
C: Tuning		F5	Digital Output Option	n: Special Adjustment		T2	PM Motor Auto-Tuning
C1	Accel & Decel Ramp	F6	Communication Options	n1	Hunting Prevention	U: Monitors	
C2	Jerk Characteristics	H: Terminal Functions		n2	Auto Freq Regulator (AFR)	U1	Operation Status Monitors
C3	Slip Compensation	H1	Digital Inputs	n3	Feed Forward Control	U2	Fault Trace
C4	Torque Compensation	H2	Digital Outputs	n4	Online Tuning	U3	Fault History
C5	Auto Speed Regulator (ASR)	H3	Analog Inputs	n5	PM Motor Control Tuning	U4	Maintenance Monitors
C6	Carrier Frequency	H4	Analog Outputs	nA	PM Motor Control Tuning	U6	Operation Status Monitors
d: Reference		H5	Serial Communication	o: Keypad-Related Settings		U9	Fault Trace
d1	Speed Reference			o1	Keypad Display		
d6	Field Forcing			o2	Keypad Operation		
				o3	Copy Keypad Function		
				o4	Maintenance Monitors		
				o5	Log Function		

B





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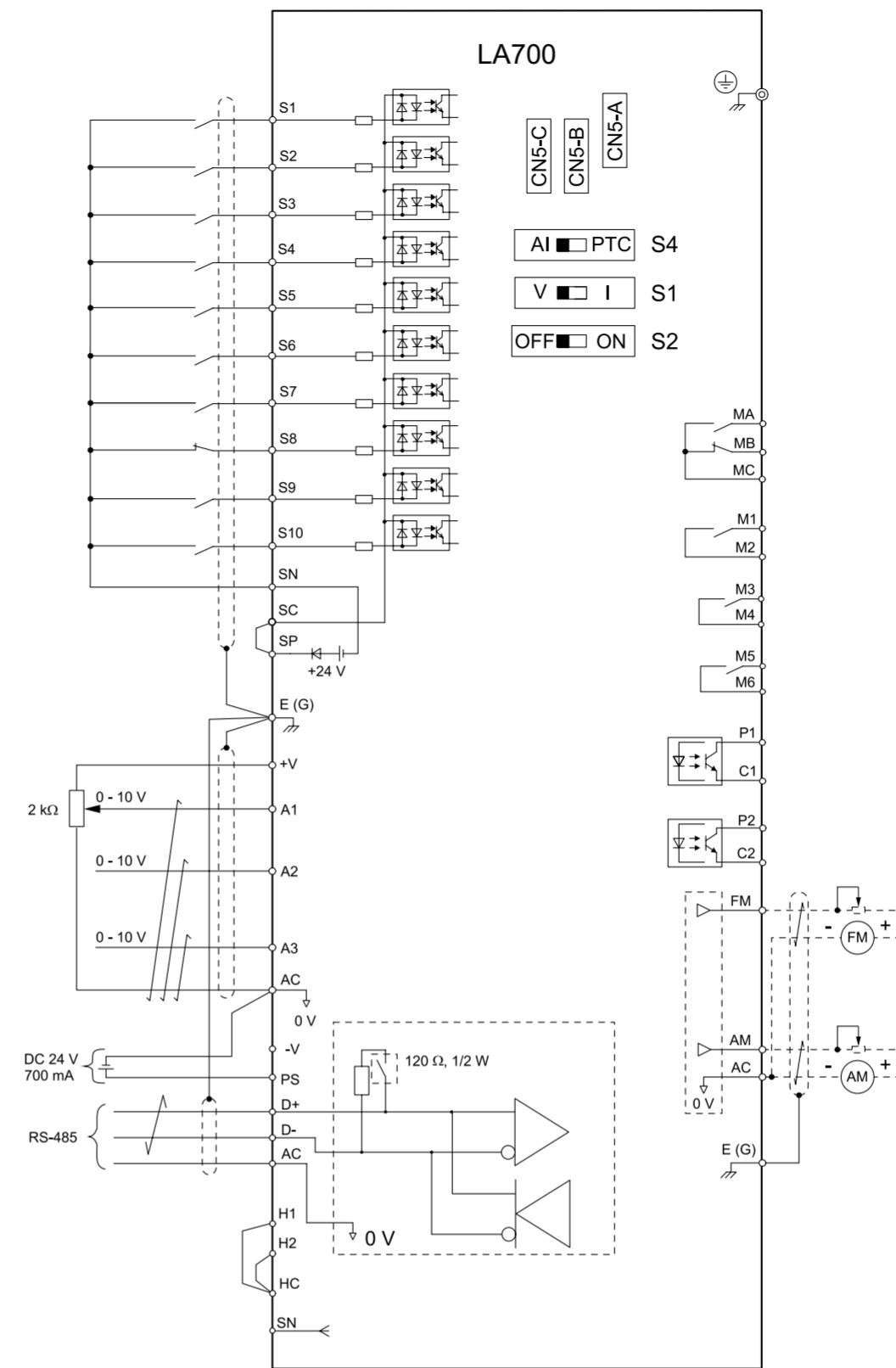


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C



Terminal	Type	Signal Level	Default
S1	MFDI Selection 1 to 10	Photocoupler 24 V, 6 mA	ON: Up Command OFF: Stop
S2			ON: Down Command OFF: Stop
S3			Nominal Speed
S4			Inspection Operation
S5			Intermediate Speed
S6			Leveling Speed
S7			Not Used
S8			Not Used
S9			Not Used
S10			Not Used
SN	MFDI Power Supply 0 V	24 V, 150 mA maximum (for external fuse)	-
SC	MFDI Selection Common	Notice: Do not short circuit terminals SP and SN. Failure to obey will cause damage to the drive.	-
SP	MFDI Power Supply +24 Vdc	-	-
H1	Safe Disable Input 1	24 V, 6 mA Internal impedance: 4.7 kΩ	-
H2	Safe Disable Input 2	24 V, 6 mA Minimum OFF time: 2 ms	-
HC	Safe Disable Function Common	Note: Remove the jumper between terminals H1-HC and H2-HC when using the Safe Disable input.	-
+V	Power Supply for Frequency Setting	10.5 V (20 mA max.)	-
-V	Power Supply for Frequency Setting	-10.5 V (20 mA max.)	-
A1	MFAI1	-10 V to +10 V/-100% to 100% (input impedance: 20 kΩ), 0 V to +10 V/100% (input impedance: 20 kΩ)	Speed Reference
A2	MFAI2	-10 V to +10 V/-100% to 100% (input impedance: 20 kΩ), 0 V to 10 V/100% (input impedance: 20 kΩ), 4 mA to 20 mA/100%, 0 mA to 20 mA/100% (input impedance: 250 Ω)	Not Used
A3	MFAI3/PTC input	-10 V to +10 V/-100% to 100% (input impedance: 20 kΩ), 0 V to +10 V/100% (input impedance: 20 kΩ)	Not Used
AC	Speed Reference Common	0 V	-
E (G)	Connecting Shielded Cable	-	-
MA	N.O. Output	30 Vdc, 10 mA to 1 A	Fault
MB	N.C. Output	250 Vac, 10 mA to 1 A	Fault
MC	Digital Output Common	Minimum load: 5 V, 10 mA	-
M1	MFDO	30 Vdc, 10 mA to 1 A 250 Vac, 10 mA to 1 A Minimum load: 5 V, 10 mA	Brake Control
M2			Output Contactor Control
M3			Drive Ready
M4			-
M5			-
M6			-
P1	Multi-function Photocoupler Output	48 Vdc, 2 mA to 50 mA	During Frequency Output
C1	Multi-function Photocoupler Output	-	Not Used
P2	Multi-function Photocoupler Output	-	Not Used
FM	Analog Monitor Output 1	0 V to +10 V/0% to 100%	Output Speed
AM	Analog Monitor Output 2	-10 V to +10 V/-100% to +100%	Output Current
AC	Monitor Common	0 V	-
PS	External 24 V Power Supply Input	21.6 Vdc to 26.4 Vdc, 700 mA	-
AC	External 24 V Power Supply Ground	0 V	-
D+	Communication Input/Output (+)	MEMOBUS/Modbus, RS-485	-
D-	Communication Input/Output (-)	115.2 kbps max.	-
AC	Shield Ground	0 V	-

MFDI: Multi-Function Digital Input
MFAI: Multi-Function Analog Input
MFDO: Multi-Function Digital Output