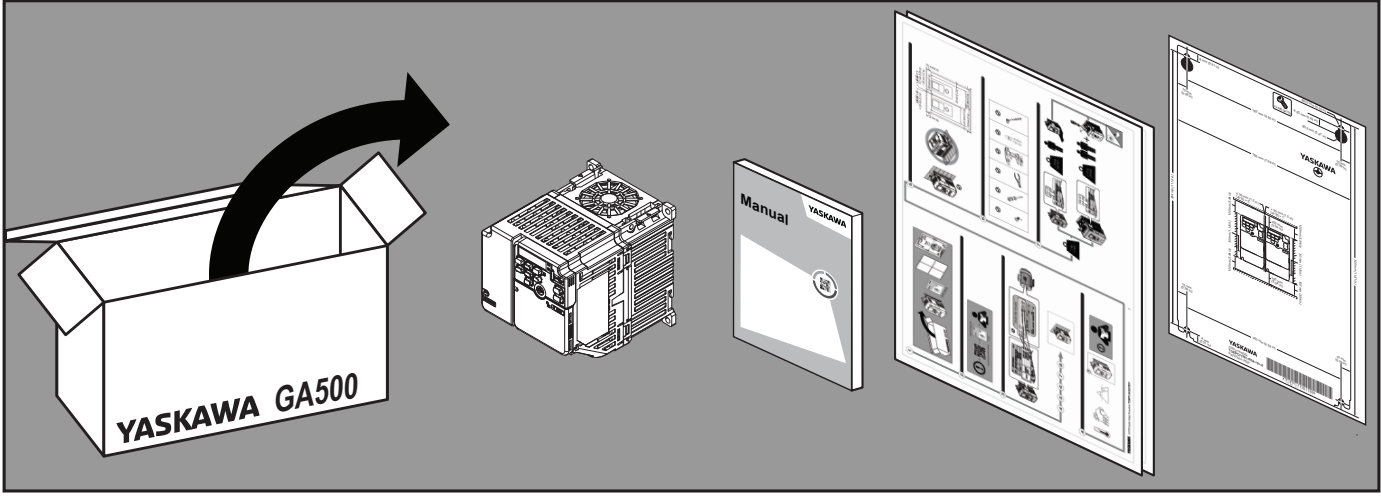
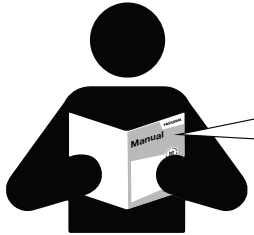


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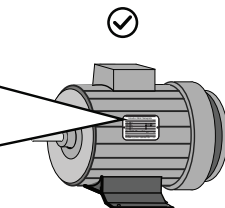


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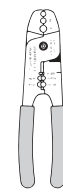
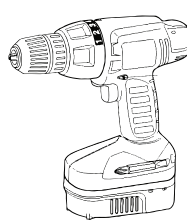
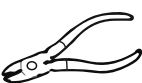
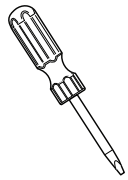




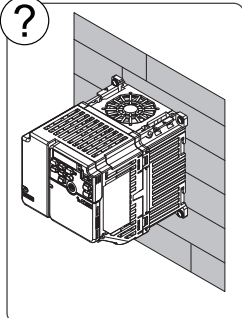
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kW / HP	≥
AMPS	≥
HERTZ	≥

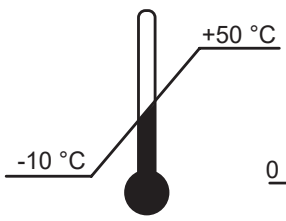


3



4







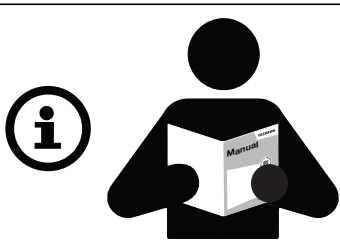
95 %
0 %



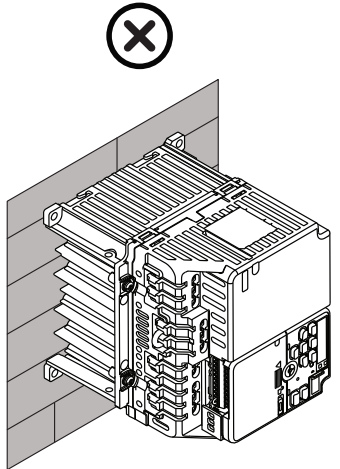
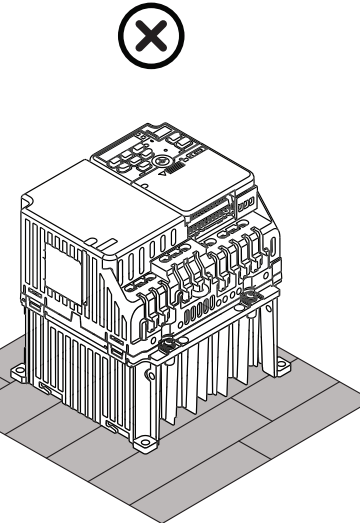
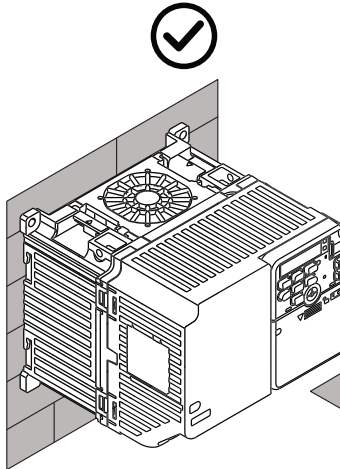
≤1000 m

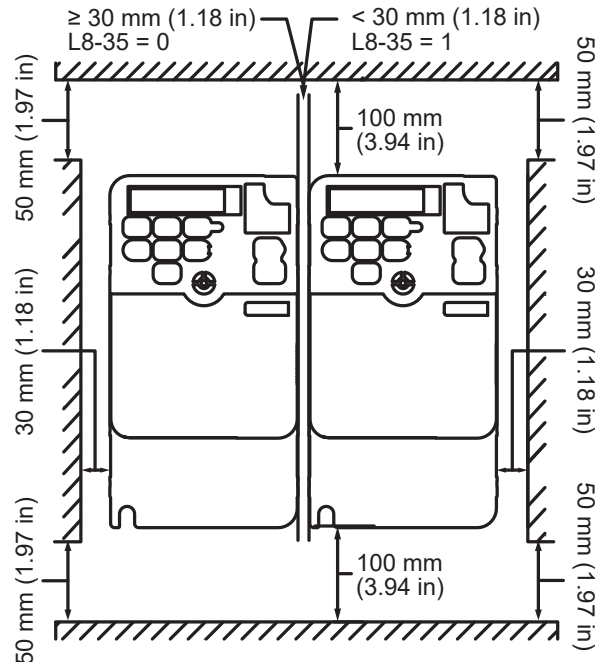


• 10 Hz ... 20 Hz: 1 G
• 20 Hz ... 55 Hz: 0.6 G

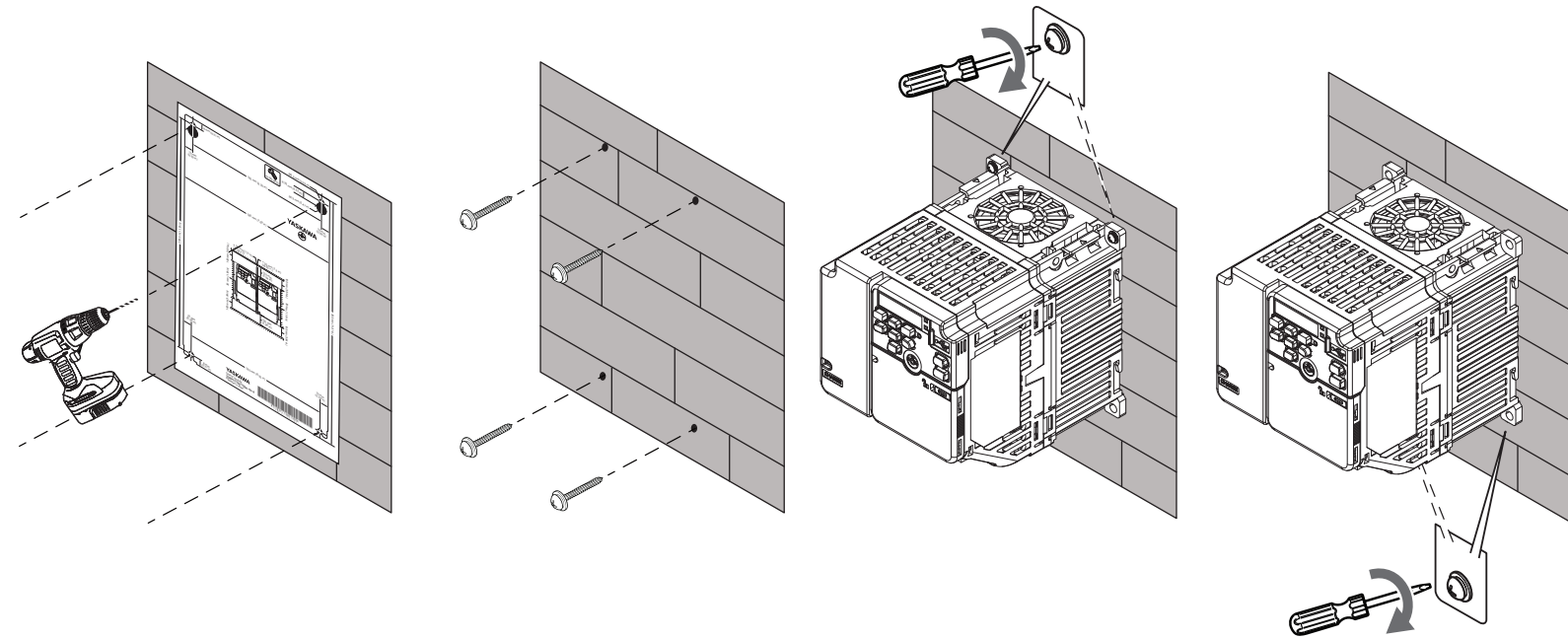


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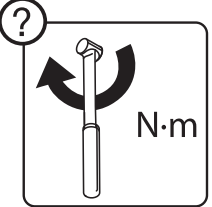
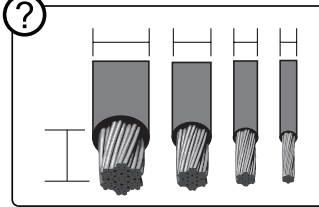
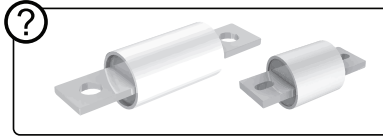




6



7





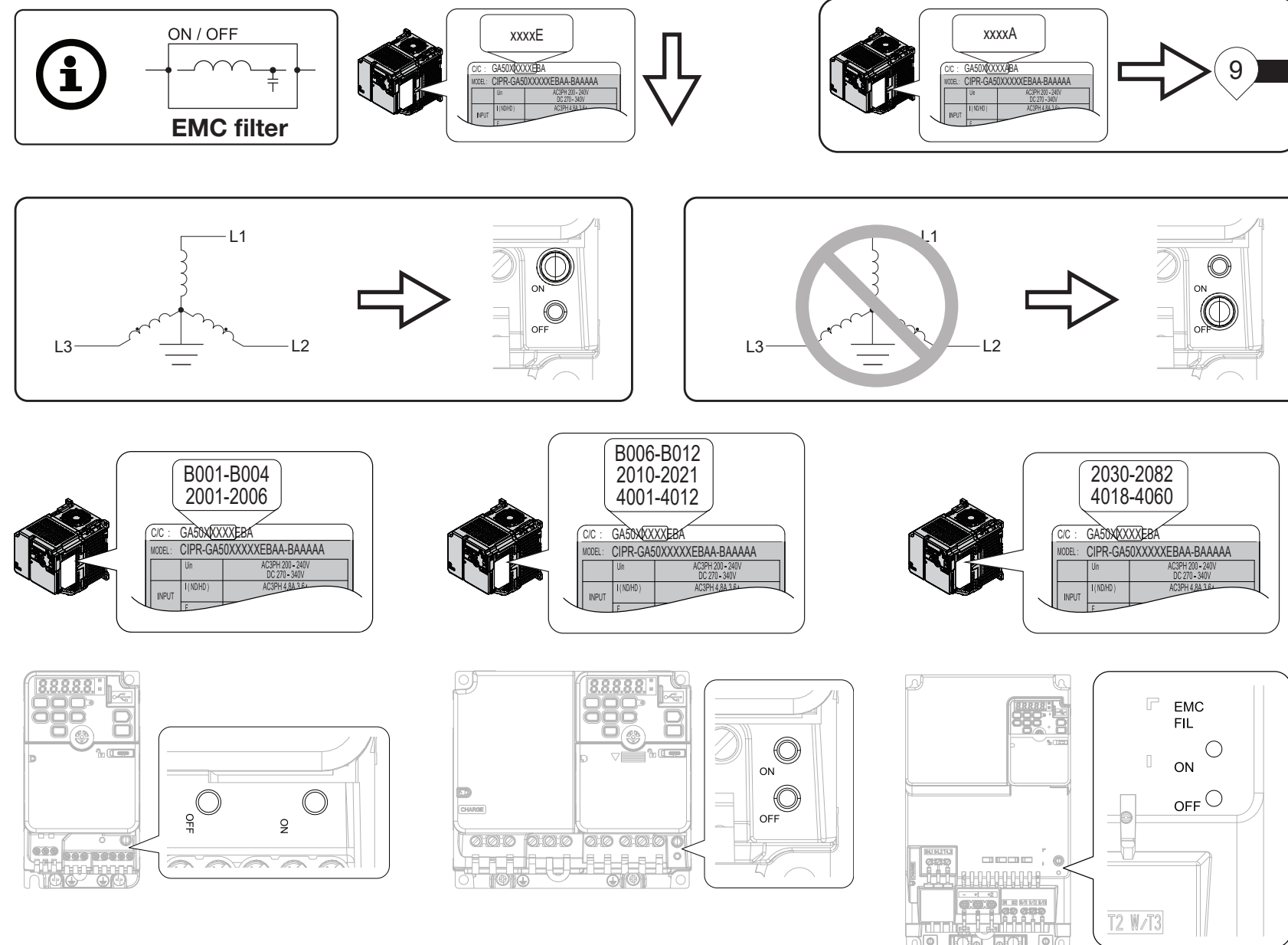
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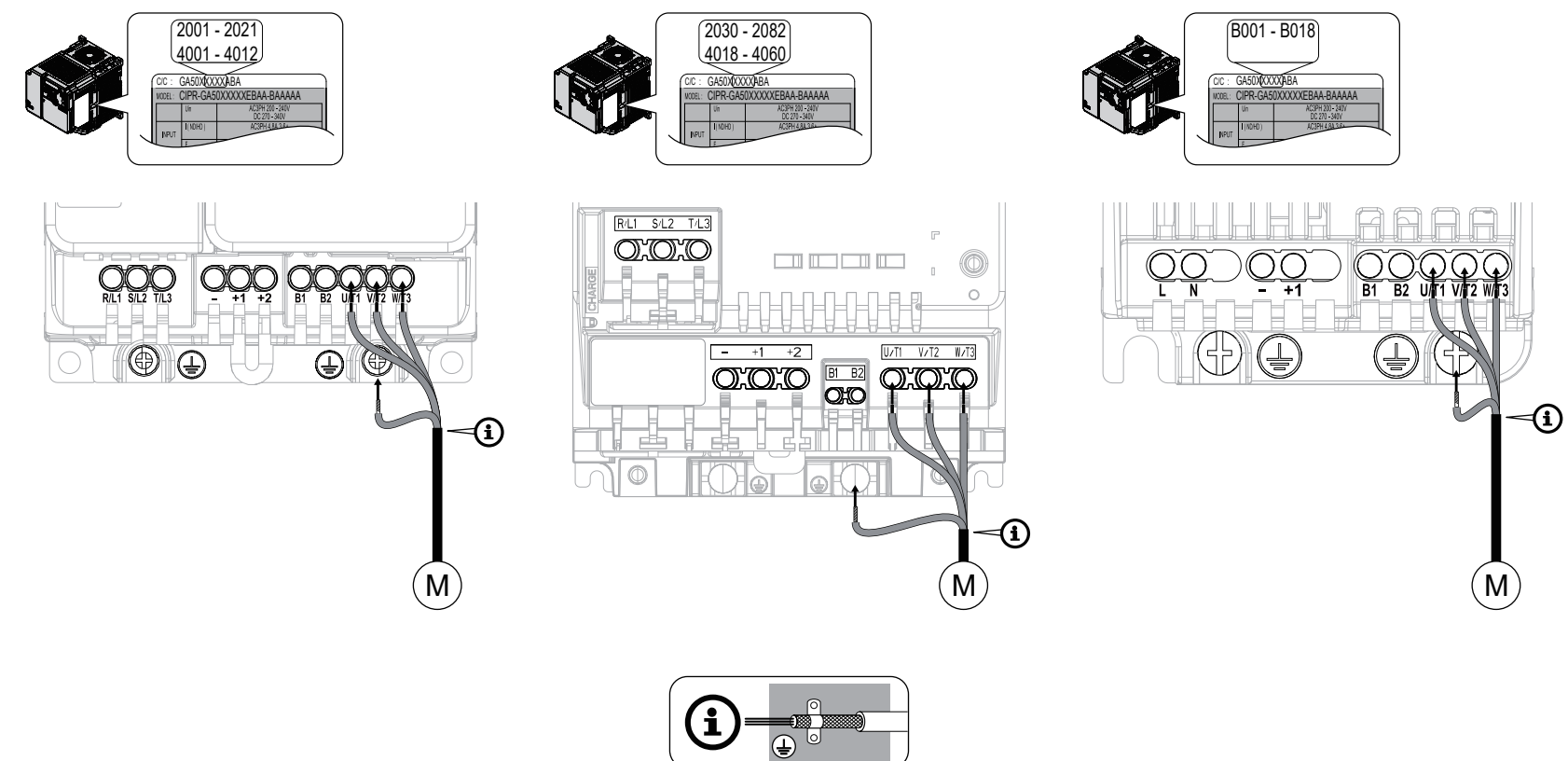
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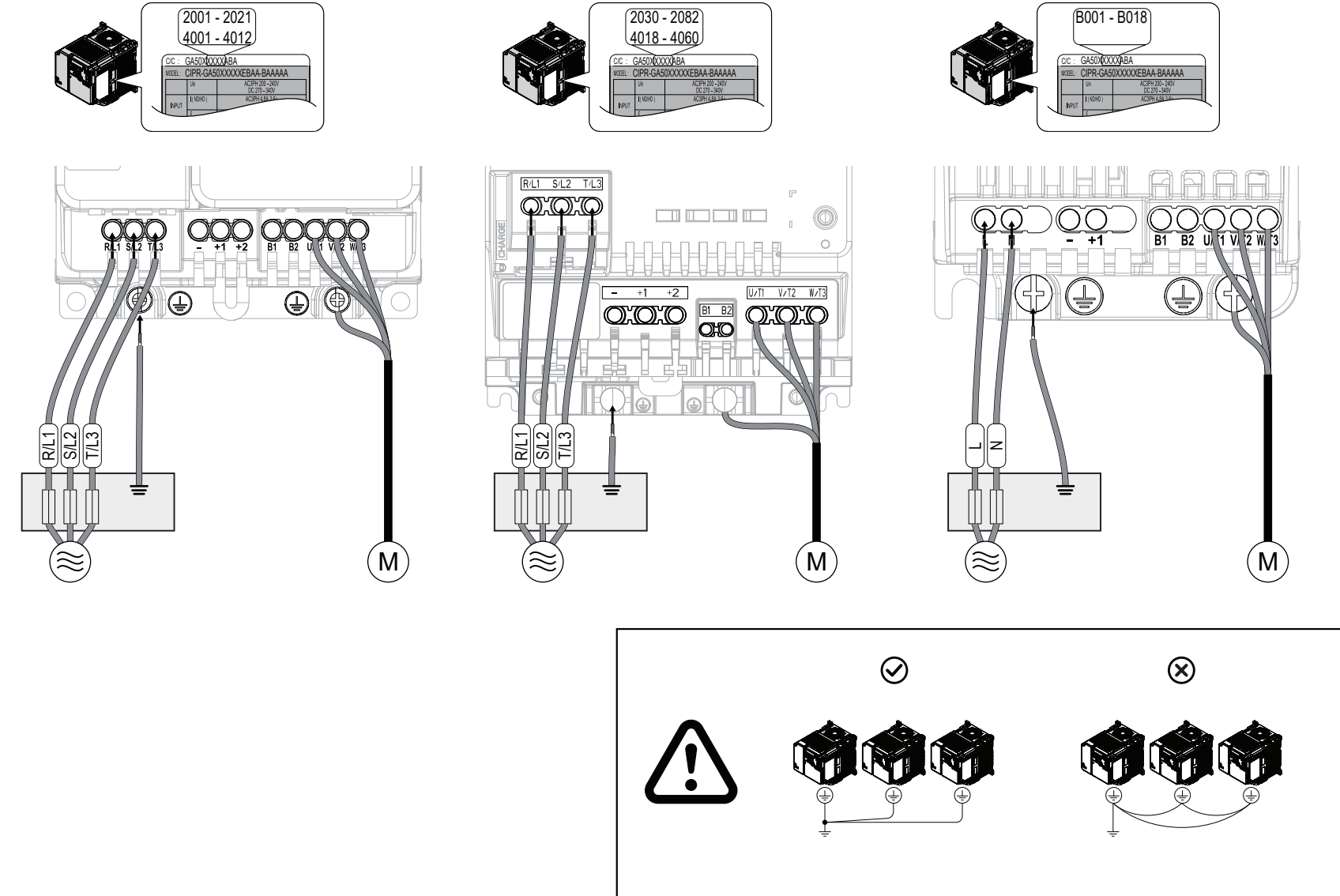
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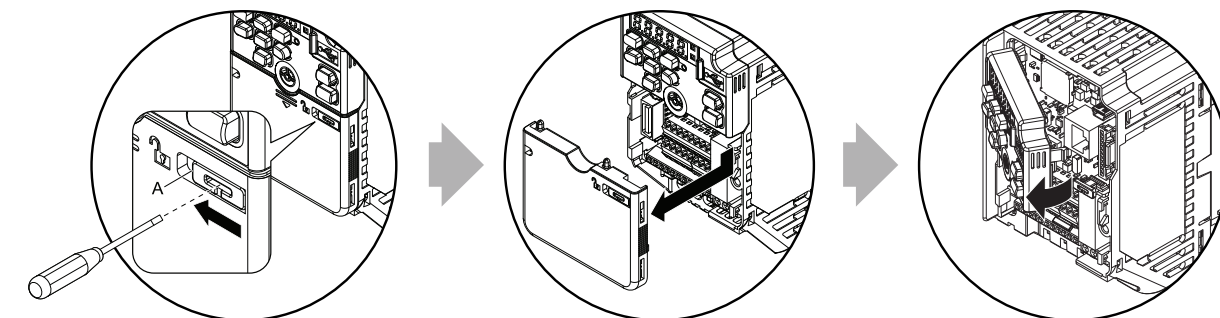
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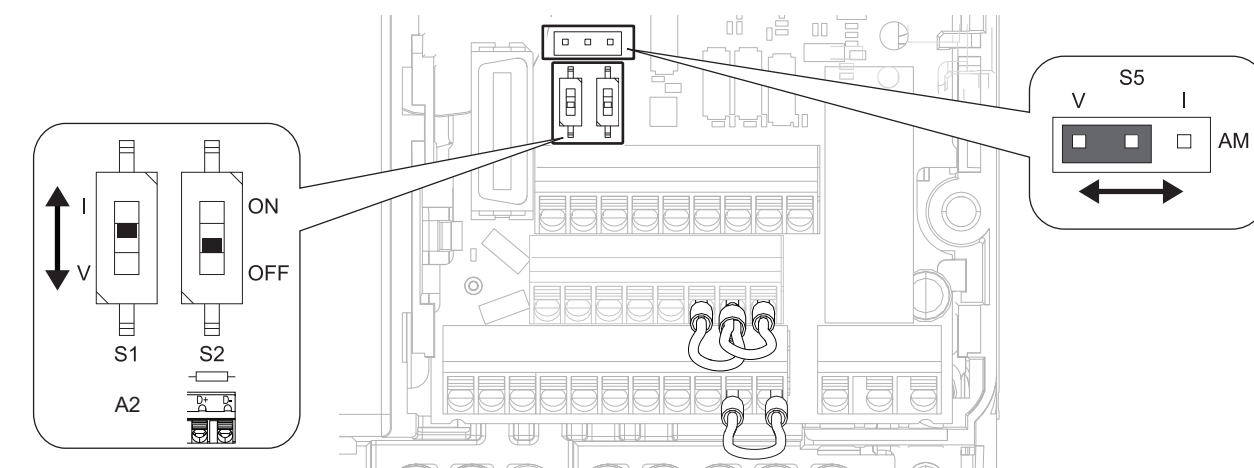
(10)



(11

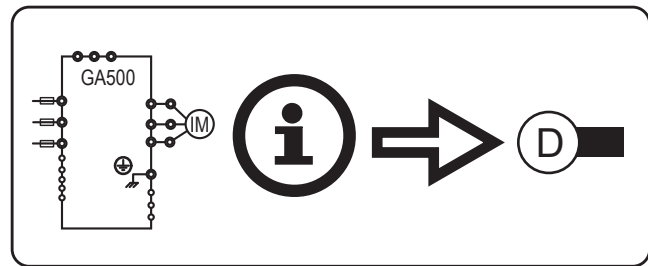
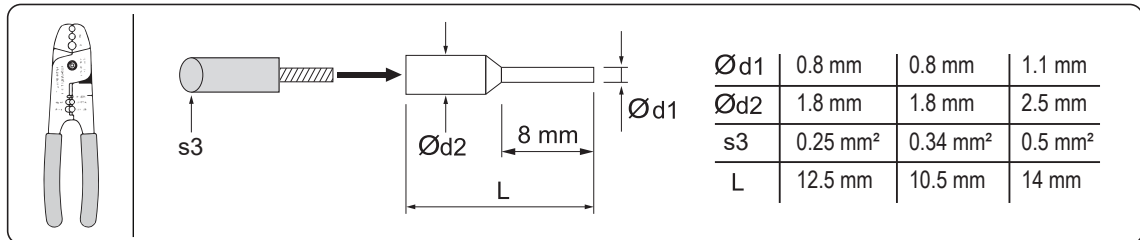
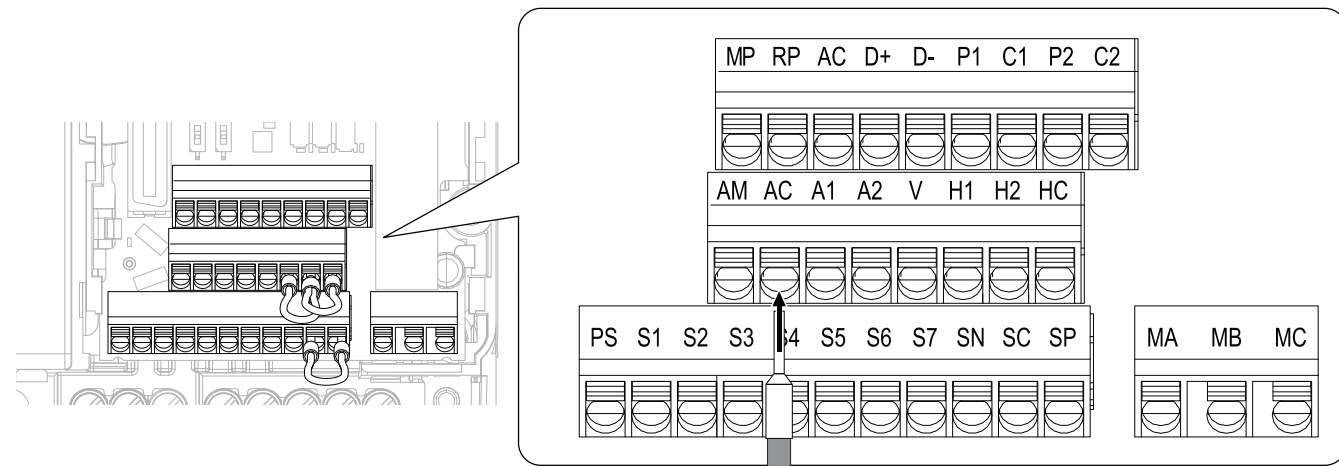


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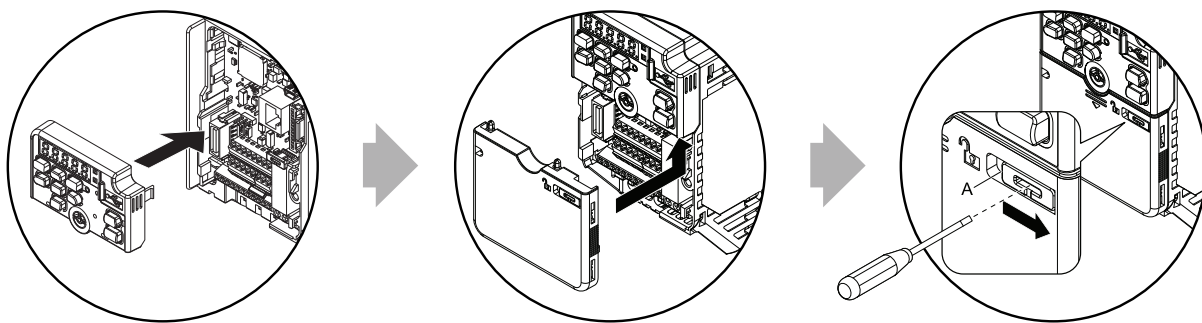


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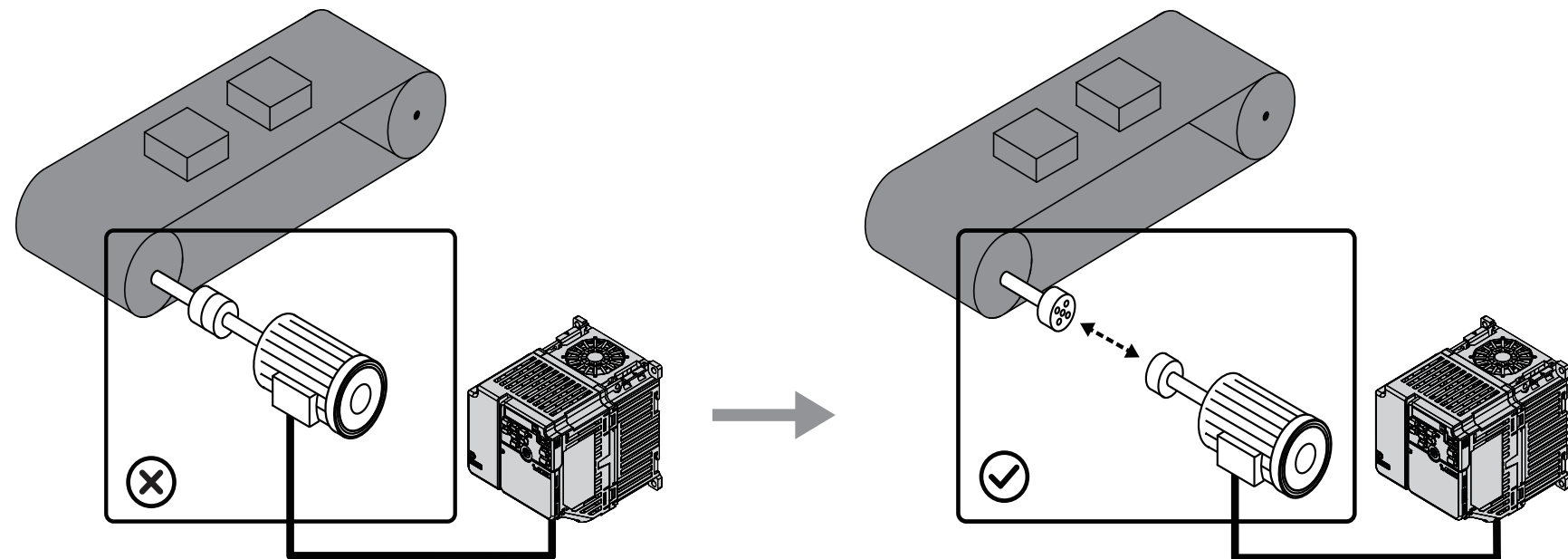
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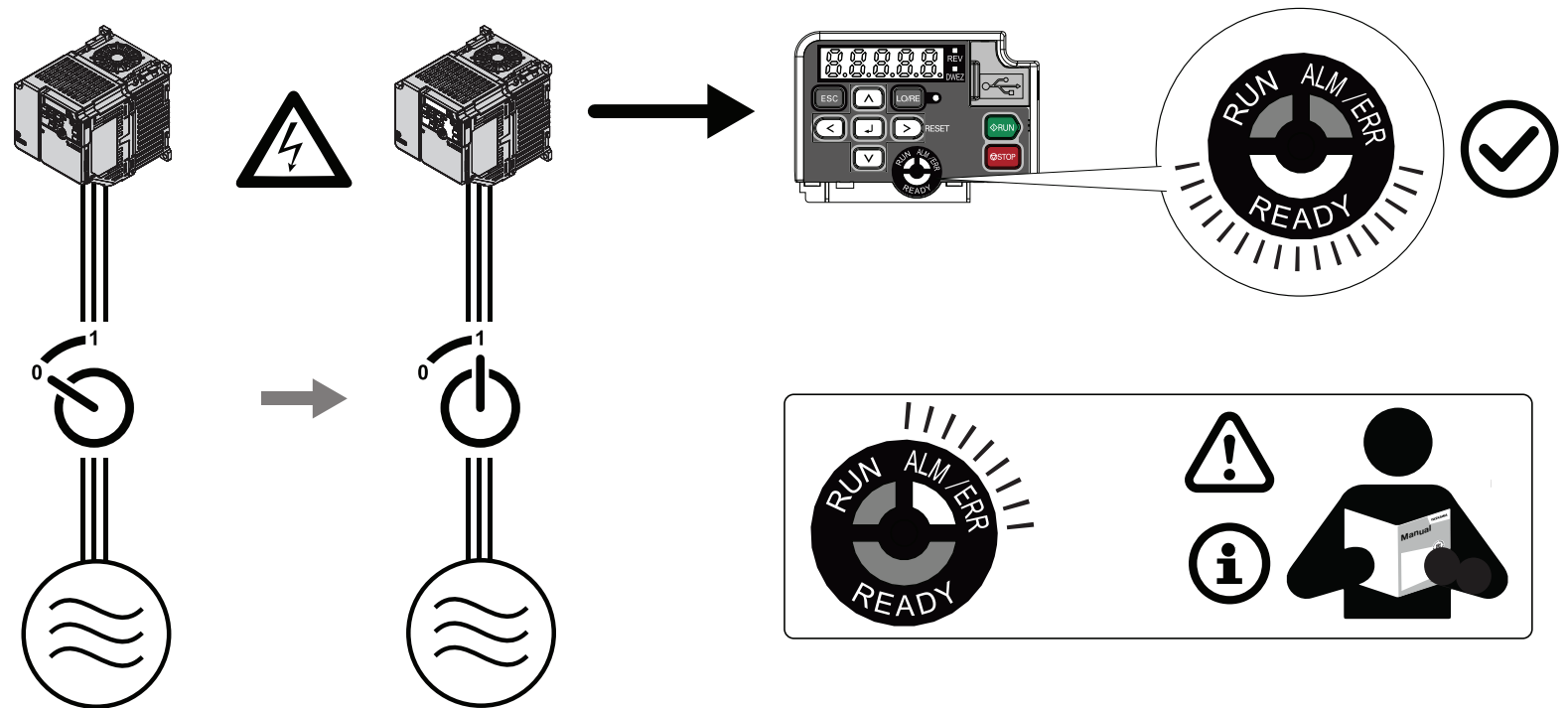
14



15



16



A

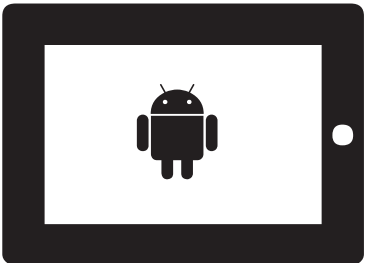
A: Initialization Parameters	d: Reference Settings	H: Terminal Functions	o: Keypad-Related Settings
A1 Initialization	d1 Frequency Reference	H1 Digital Inputs	o1 Keypad Display
A2 User Parameters	d2 Reference Limits	H2 Digital Outputs	o2 Keypad Operation
b: Application	d3 Jump Frequency	H3 Analog Inputs	o3 Copy Keypad Function
b1 Operation Mode Selection	d4 Frequency Ref Up/Down & Hold	H4 Analog Outputs	o4 Maintenance Monitors
b2 DC Injection Braking and Short Circuit Braking	d6 Field Weakening/Forcing	H5 Modbus Communication	o5 Log Function
b3 Speed Search	d7 Offset Frequency	H6 Pulse Train Input/Output	q: DriveWorksEZ Parameters
b4 Timer Function	E: Motor Parameters	H7 Virtual MFIO selection	r: DWEZ Connection 1-20
b5 PID Control	E1 V/f Pattern for Motor 1	L: Protection Functions	T: Motor Tuning
b6 Dwell Function	E2 Motor Parameters	L1 Motor Protection	T0 Tuning Mode Selection
b8 Energy Saving	E3 V/f Pattern for Motor 2	L2 Power Loss Ride Through	T1 Induction Motor Auto-Tuning
C: Tuning	E4 Motor 2 Parameters	L3 Stall Prevention	T2 PM Motor Auto-Tuning
C1 Accel & Decel Time	E5 PM Motor Settings	L4 Speed Detection	T3 ASR and Inertia Tuning
C2 S-Curve Characteristics	E9 Motor Setting	L5 Fault Restart	T4 EZ Tuning
C3 Slip Compensation	F: Options	L6 Torque Detection	U: Monitors
C4 Torque Compensation	F1 Fault Detection in PG Speed Control	L7 Torque Limit	U1 Operation Status Monitors
C5 Automatic Speed Regulator (ASR)	F6 Communication Options	L8 Drive Protection	U2 Fault Trace
C6 Duty & Carrier Frequency	F7 Communication Options	n: Special Adjustment	U3 Fault History
		n1 Hunting Prevention	U4 Maintenance Monitors
		n2 Auto Freq Regulator (AFR)	U5 PID Monitors
		n3 High Slip/Overexcite Braking	U6 Operation Status Monitors
		n5 Feed Forward Control	U8 DriveWorksEZ Monitors
		n6 Online Tuning	
		n7 EZ Drive	
		n8 PM Motor Control Tuning	
		nA PM Motor Control Tuning	

B

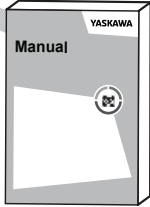




YASKAWA Manuals







PDF



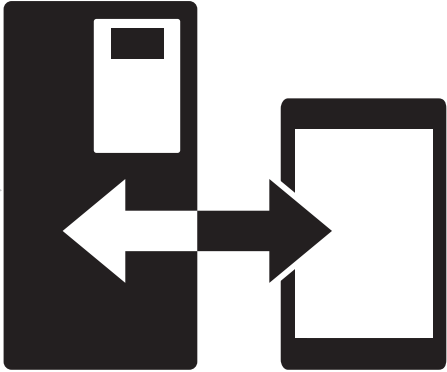
<https://www.yaskawa.eu.com/manuals/ga500>







DriveWizard Mobile

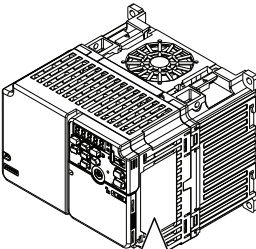






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C



O/N: XXXXXX -

S/N: XXXXXXXX

IP20

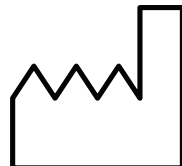
MAX SURROU

XX = 20

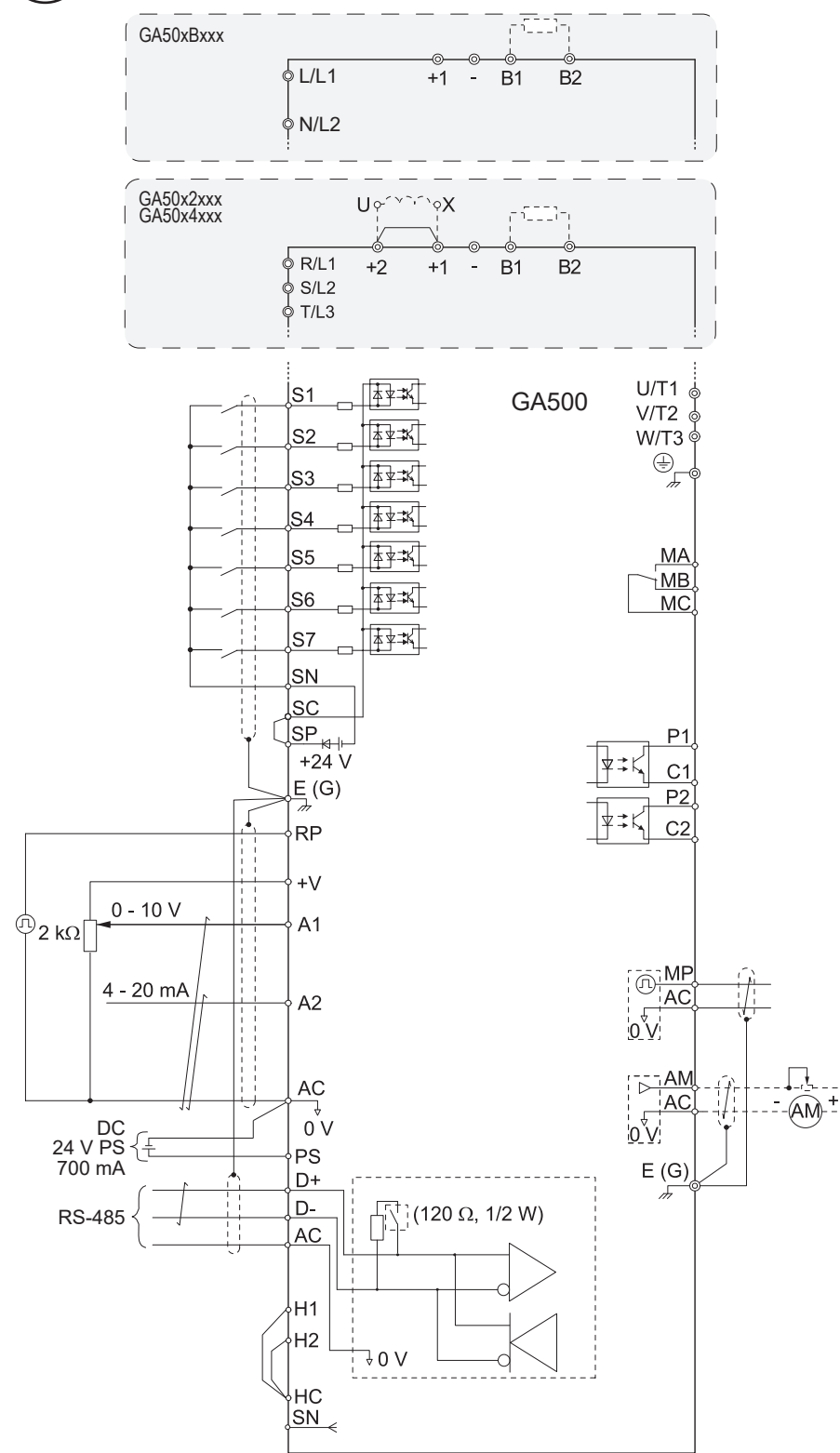
XX = 21

2020

2021



D



Terminal	Type	Signal Level	Default
S1	MFDI selection 1	Photocoupler 24 V, 6 mA	Forward run/Stop
S2	MFDI selection 2		Reverse run/Stop
S3	MFDI selection 3		External fault
S4	MFDI selection 4		Fault reset
S5	MFDI selection 5		Multi-step speed reference 1
S6	MFDI selection 6		Multi-step speed reference 2
S7	MFDI selection 7		Jog command
SN	MFDI power supply 0 V	24 V, 150 mA maximum (for external fuse)	-
SC	MFDI selection common		-
SP	MFDI power supply +24 Vdc		-
H1	Safe Disable input 1	24 V, 6 mA Internal impedance: 4.7 kΩ Minimum OFF time: 3 ms	-
H2	Safe Disable input 2		-
HC	Safe Disable function common		-
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	Master frequency reference
+V	Power supply for frequency setting	10.5 V (20 mA maximum)	-
A1	MFAI1	0 V ~ +10 V/100% (input impedance: 20 kΩ)	Master frequency reference
A2	MFAI2	0 V ~ +10 V/100% (input impedance: 20 kΩ) 4 mA ~ 20 mA/100%, 0 mA ~ 20 mA/100% (input impedance: 250 Ω)	Combined to terminal A1
AC	Frequency reference common	0 V	-
E(G)	Connect shielded cable	-	-
MA	N.O. output	30 Vdc, 10 mA ~ 1 A 250 Vac, 10 mA ~ 1 A	Fault
MB	N.C. output	Minimum load: 5 V, 10 mA	Fault
MC	Digital output common		-
P1	Multi-functional Photocoupler Output 1	Photocoupler output 48 Vdc, 2 mA ~ 50 mA	During run
C1	Multi-functional Photocoupler Output 2		Speed agree 1
P2	Multi-functional Photocoupler 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	Monitor common	0 V	-
PS	External 24 V power supply input	21.6 Vdc ~ 26.4 Vdc, 700 mA	-
AC	External 24 V power supply ground	0 V	-
D+	Communication input/output (+)	MEMOBUS/Modbus, RS-485 115.2 kbps maximum	-
D-	Communication output (-)		-
AC	Shield ground	0 V	-

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