

◆ Terminal Connections

Connections to Drive terminals are shown in Fig 2.8.

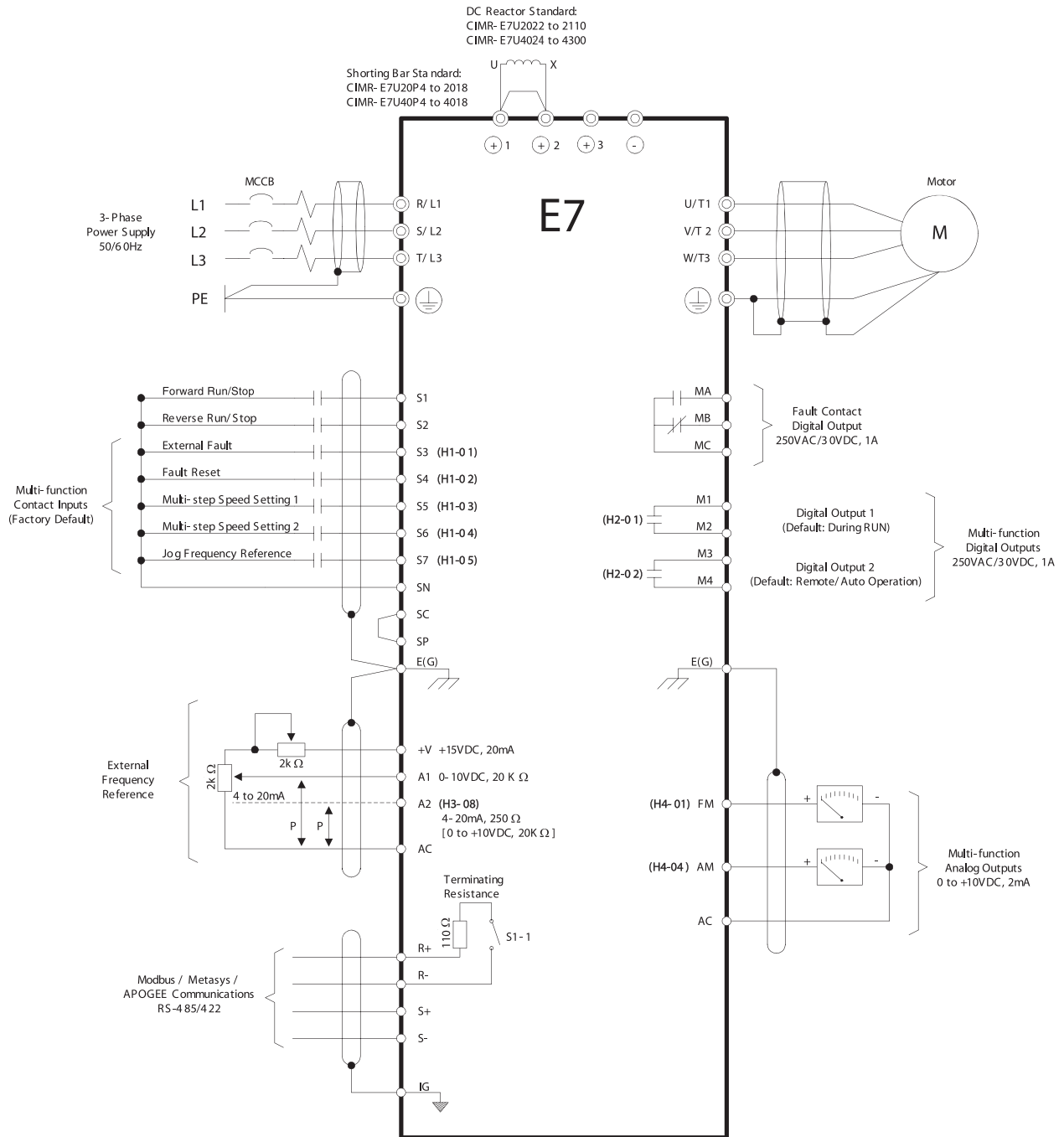


Fig 2.6 Terminal Connections

◆ Main Circuit Terminal Functions

Main circuit terminal functions are summarized according to terminal symbols in Table 2.3. Wire the terminals correctly for the desired purpose.

Table 2.3 Main Circuit Terminal Functions (208-240Vac and 480Vac)			
Purpose	Terminal Designation	Model: CIMR-E7U_ _ _ _	
		208-240Vac	480Vac
Main circuit power input	R/L1, S/L2, T/L3	20P4 to 2110	40P4 to 4300
	R1/L11, S1/L21, T1/L31	2022 to 2110	4030 to 4300
Drive outputs	U/T1, V/T2, W/T3	20P4 to 2110	40P4 to 4300
DC power input	⊕1, ⊖	20P4 to 2110	40P4 to 4300
DC reactor connection	⊕1, ⊕2	20P4 to 2018	40P4 to 4018
Ground	⊖	20P4 to 2110	40P4 to 4300

◆ Control Circuit Terminal Functions

The factory default functions of the control circuit terminals for 2-wire control are shown in Table 2.8.

Type	No.	Signal Name	Description	Signal Level	
Digital input signals	S1	Forward run/stop command	Forward run when CLOSED; stopped when OPEN.	24 Vdc, 8 mA Photocoupler isolation	
	S2	Reverse run/stop command	Reverse run when CLOSED; stopped when OPEN.		
	S3	External fault input	Fault when CLOSED.		Multi-function digital inputs Functions set by H1-01 to H1-05.
	S4	Fault reset	Reset when CLOSED		
	S5	Multi-step speed reference 1 (Master/auxiliary switch)	Auxiliary frequency reference when CLOSED.		
	S6	Multi-step speed reference 2	Multi-step setting 2 when CLOSED.		
	S7	Jog frequency reference	Jog frequency when CLOSED.		
	SN	Digital input common	Refer to Table 2.10 for connection details.		
	SC				
SP					
Analog input signals	+V	+15Vdc power supply	+15Vdc power supply for analog inputs or transmitters	+15Vdc (Max. current: 20 mA)	
	A1	Analog input or Speed Command	0 to +10Vdc/100%		
	A2	Multi-function analog input	4 to 20 mA/100% 0 to +10Vdc/100% (H3-0)	Function set by H3-09.	4 to 20 mA(250Ω) 0 to +10 V(20kΩ)
	AC	Analog common	-		
	E(G)	Shield wire, optional ground line connection point	-		
Digital output signals	M1	During Run (N.O. contact)	CLOSED during operation	Multi-function digital output Function set by H2-01.	Dry contacts Contact capacity: 1 A max. at 250Vac 1 A max. at 30Vdc
	M2				
	M3	Remote/Auto Operation (N.O. contact)	CLOSED when local control	Multi-function digital output Function set by H2-02.	
	M4				
	MA	Fault output signal (SPDT)	MA/MC: CLOSED during fault condition MB/MC: OPEN during fault condition		
	MB				
MC					
Analog output signals	FM	Multi-function analog output	(output frequency) 0 to +10Vdc/100% frequency	Multi-function analog monitor 1 Function set by H4-01	0 to +10Vdc max. ±5% 2 mA max.
	AC	Analog common	-		
	AM	Multi-function analog output	(output current) 0 to +10Vdc/100% Drive's rated output current	Multi-function analog monitor 2 Function set by H4-04	
RS-485/422	R+	Modbus communication input	For 2-wire RS-485, jumper R+ and S+ and jumper R- and S-.		Differential input, PHC isolation
	R-				
	S+	Modbus communication output			Differential input, PHC isolation
	S-				
	IG	Signal common	-		-

◆ Sinking/Sourcing Mode

The input terminal logic can be switched between sinking mode (0V common) and sourcing mode (+24V common) by using the terminals SN, SC, and SP. An external power supply can also be connected, providing more freedom in signal input methods.

