

Yaskawa AC Drive GA500 Supplemental Technical Manual

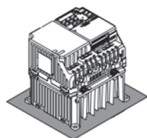
This supplemental technical manual describes corrections for GA500 “Technical Manual (SIEPC7106175X)” and should be read to ensure proper usage. Read this manual together with the manuals.

■ Addition to “2.3 Installation Position and Distance”

◆ Horizontal Installation

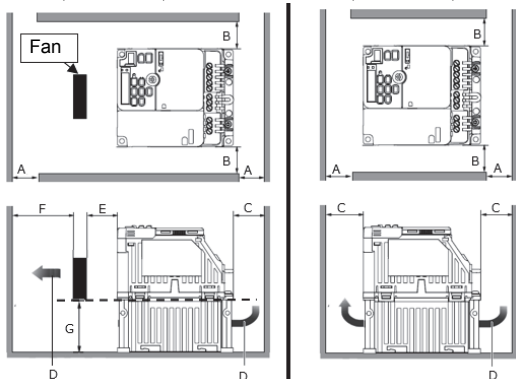
When you install the drive horizontally, install the external fan listed in Table 1 and set L8-12 = 40 [Ambient Temperature Setting = 40 °C] and L8-35 = 1 [Installation Method Selection = Side-by-Side Mounting].

Make sure to comply with the installation conditions shown in Figure 1 to ensure a sufficient amount of space for airflow to cool the drive and space for wiring.



B001-B012, 2001-2021, 4001-4012

B018, 2030-2082, 4018-4060



- A: 50 mm (2 in) minimum above and below
- B: 30 mm (1.18 in) minimum on both sides
- C: 100 mm (3.94 in) minimum below
- D: Airflow direction
- E: 30 mm (1.18 in) minimum from the top of the drive to the fan

- F: 120 mm (4.72 in) minimum from the fan to the top surface of the control panel
- G: Height of heatsink (Refer to dimension d1 in 10.8 Drive Exterior and Mounting Dimensions)

Figure 1 Installation Space for the Drive (Horizontal Installation)

Table 1 External Fan Specifications for Horizontal Installation (Floor Installation)

Voltage Class	Drive Model CIPR-	External Fan Specifications	
		Maximum Air Flow (m ³ /min)	Maximum Static Pressure (Pa)
Single-Phase 200 V Class	GA50xB001-B004	0.18 or more	63.7 or more
	GA50xB006-B012	1.11 or more	244 or more
	GA50xB018	External fan not required	
Three-Phase 200 V Class	GA50x2001	0.18 or more	63.7 or more
	GA50x2002	0.18 or more	63.7 or more
	GA50x2004	0.18 or more	63.7 or more
	GA50x2006	0.18 or more	63.7 or more
	GA50x2008	1.11 or more	244 or more
	GA50x2010	1.11 or more	244 or more
	GA50x2012	1.11 or more	244 or more
	GA50x2018	1.11 or more	244 or more
	GA50x2021	1.11 or more	244 or more
	GA50x2030	External fan not required	
	GA50x2042	External fan not required	
	GA50x2056	External fan not required	
	GA50x2070	External fan not required	
GA50x2082	External fan not required		
Three-Phase 400 V Class	GA50x4001	1.11 or more	244 or more
	GA50x4002	1.11 or more	244 or more
	GA50x4004	1.11 or more	244 or more
	GA50x4005	1.11 or more	244 or more
	GA50x4007	1.11 or more	244 or more
	GA50x4009	1.11 or more	244 or more
	GA50x4012	1.11 or more	244 or more
	GA50x4018	External fan not required	
	GA50x4023	External fan not required	
	GA50x4031	External fan not required	
	GA50x4038	External fan not required	
	GA50x4044	External fan not required	
	GA50x4060	External fan not required	