

H-Max series variable frequency drives North American cable size recommendations

The below table is the updated recommendations for the cable and terminal sizes for the 480V H-Max offering. For ground cable recommendation, please reference NEC 250 standard based on ambient temperature and the current rating of the variable frequency drive.

Frame	Amp Suffix	hp	VFD I(L) Amps at 40°C	VFD I(L) Amps at 50°C	Fuse Rating (Class T)	Mains and Motor Cable Cu (AWG) (40°C)	Terminal Connection Size (40°C)	
							Line and Motor	Ground
FR4	3D4	1.5	3.4	2.9	6	14	24-10	17-10
	4D8	2	4.8	4.1	6	14	24-10	17-10
	5D6	3	5.6	4.8	10	14	24-10	17-10
	8D0	4	8	6.8	10	14	24-10	17-10
	9D6	5	9.6	8.2	15	14	24-10	17-10
FR5	12	7.5	12	10	20	14	24-10	17-10
	16	10	16	14	25	10	20-6	17-8
	23	15	23	20	30	10	20-6	17-8
FR6	31	20	31	26	40	8	20-6	17-8
	38	25	38	32	50	4	13-0	13-2
	46	30	46	39	60	4	13-0	13-2
FR7	61	40	61	52	80	4	13-0	13-2
	72	50	72	61	100	2	9-2/0	9-2/0
	87	60	87	74	110	1	9-2/0	9-2/0
FR8	105	75	105	89	150	1/0	9-2/0	9-2/0
	140	100	140	119	200	3/0	1 AWG-350 kcmil	1 AWG-350 kcmil
	170	125	170	145	225	250 kcmil	1 AWG-350 kcmil	1 AWG-350 kcmil
FR9	205	150	205	174	250	350 kcmil	1 AWG-350 kcmil	1 AWG-350 kcmil
	261	200	261	222	350	2x250 kcmil	1 AWG-350 kcmil	1 AWG-350 kcmil
	310	250	310	264	400	2x350 kcmil	1 AWG-350 kcmil	1 AWG-350 kcmil



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Additional Help

In the US or Canada: please contact the Technical Resource Center at 1-877-ETN-CARE or 1-877-326-2273.

All other supporting documentation is located on the Eaton web site at www.eaton.com

