

Eaton HMAX adjustable frequency drive efficiency class IE2 loss data

The Eaton HMAX AFD are rated to the highest efficiency class IE2 following Standard EN 50598.

Standard EN 50598 defines the reference losses for AFDs at specified operating point - predefined switching frequency, 45 Hz output frequency and 100% load for 480V induction motor. The AFDs relative losses are calculated by dividing the losses by the reference losses. The AFD is classified as IE2, if its relative losses are less than 75%.

For HMAX drive losses and relative losses are as follows:

Drive frame size	Current rating (A)	Switching frequency (kHz)	Losses (kW)	Relative losses
4	3.4	4	0.045	27%
	4.8	4	0.054	29%
	5.6	4	0.074	31%
	8	4	0.088	29%
	9.6	4	0.118	31%
	12	4	0.177	37%
5	16	4	0.205	35%
	23	4	0.322	41%
	31	4	0.435	43%
6	38	4	0.455	38%
	46	4	0.566	40%
	61	4	0.780	42%
7	72	4	0.811	36%
	87	4	1.010	37%
	105	4	1.280	39%
8	140	4	1.970	45%
	170	2	2.060	40%
	205	2	2.620	47%
9	261	2	2.940	44%
	310	2	3.750	47%



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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

