



ECO Design: Energy Efficiency Indicator – CDM Compliance to IEC 61800-9-2: 2017

Rated Supply Voltage:		3x 380 – 500Vac +/-10%																																							
Rated Supply Frequency:		50 – 60Hz +/-10%																																							
Duty:		Constant Torque														Quadratic Torque																									
Temperature Rating:		0 – 45°C														0 – 40°C																									
Product Code	P_r (kW)	$I_{r, out}$ (A)	$S_{r, equ}$ (VA)	$P_{L, CDM (0,25)}$ (W)	$p_{L, CDM (0,25)}$ (%)	$P_{L, CDM (50,25)}$ (W)	$p_{L, CDM (50,25)}$ (%)	$P_{L, CDM (0,50)}$ (W)	$p_{L, CDM (0,50)}$ (%)	$P_{L, CDM (50,50)}$ (W)	$p_{L, CDM (50,50)}$ (%)	$P_{L, CDM (90,50)}$ (W)	$p_{L, CDM (90,50)}$ (%)	$P_{L, CDM (0,100)}$ (W)	$p_{L, CDM (0,100)}$ (%)	$P_{L, CDM (50,100)}$ (W)	$p_{L, CDM (50,100)}$ (%)	$P_{L, CDM (90,100)}$ (W)	$p_{L, CDM (90,100)}$ (%)	IE2 Compliant	P_r (kW)	$I_{r, out}$ (A)	$S_{r, equ}$ (VA)	$P_{L, CDM (0,25)}$ (W)	$p_{L, CDM (0,25)}$ (%)	$P_{L, CDM (50,25)}$ (W)	$p_{L, CDM (50,25)}$ (%)	$P_{L, CDM (0,50)}$ (W)	$p_{L, CDM (0,50)}$ (%)	$P_{L, CDM (50,50)}$ (W)	$p_{L, CDM (50,50)}$ (%)	$P_{L, CDM (90,50)}$ (W)	$p_{L, CDM (90,50)}$ (%)	$P_{L, CDM (0,100)}$ (W)	$p_{L, CDM (0,100)}$ (%)	$P_{L, CDM (50,100)}$ (W)	$p_{L, CDM (50,100)}$ (%)	$P_{L, CDM (90,100)}$ (W)	$p_{L, CDM (90,100)}$ (%)	IE2 Compliant	$P_{L, control standby}$ (W)
690-532140C0-Bxxxx-xxxx	7.5	14	12124	139.7	1.15	143.5	1.18	157.4	1.30	165.6	1.37	174.5	1.44	210.3	1.73	230.3	1.90	255.4	2.11	✓	11	21	18187	156.4	0.86	162.5	0.89	183.1	1.01	196.4	1.08	210.9	1.16	264.5	1.45	297.4	1.64	339.6	1.87	✓	10
690-532210C0-Bxxxx-xxxx	11	21	18187	156.4	0.86	162.5	0.89	183.1	1.01	196.4	1.08	210.9	1.16	264.5	1.45	297.4	1.64	339.6	1.87	✓	15	27	23383	179.7	0.77	187.9	0.80	216.0	0.92	234.1	1.00	254.7	1.09	327.8	1.40	374.0	1.60	435.2	1.86	✓	10
690-532270C0-Bxxxx-xxxx	15	27	23383	182.8	0.78	190.6	0.81	218.3	0.93	235.2	1.01	254.4	1.09	325.5	1.39	367.1	1.57	422.9	1.81	✓	18.5	34	29445	200.4	0.68	210.6	0.72	245.5	0.83	268.2	0.91	294.8	1.00	384.3	1.31	443.0	1.50	523.1	1.78	✓	10
690-532420D0-xxxx-xxxx	22	42	36373	309.5	0.85	323.4	0.89	377.2	1.04	405.0	1.11	431.3	1.19	573.6	1.58	632.7	1.74	696.2	1.91	✓	30	52	45033	350.6	0.78	352.4	0.78	422.7	0.94	456.5	1.01	488.9	1.09	676.3	1.50	751.0	1.67	833.4	1.85	✓	6.7
690-532520D0-xxxx-xxxx	30	52	45033	257.6	0.57	260.7	0.58	310.2	0.69	338.8	0.75	367.4	0.82	502.6	1.12	571.2	1.27	650.2	1.44	✓	37	65	56292	292.4	0.52	291.2	0.52	365.8	0.65	392.9	0.70	423.0	0.75	652.5	1.16	708.8	1.26	790.2	1.40	✓	6.7
690-532730E0-xxxx-xxxx	37	67	58024	334.9	0.58	353.6	0.61	432.6	0.75	502.4	0.87	583.1	1.01	727.3	1.25	799.2	1.38	889.6	1.53	✓	45	79	68416	372.2	0.54	394.3	0.58	488.3	0.71	572.2	0.84	672.7	0.98	841.6	1.23	926.8	1.35	1038.9	1.52	✓	15
690-532870E0-xxxx-xxxx	45	79	68416	371.6	0.54	397.2	0.58	487.6	0.71	581.2	0.85	688.7	1.01	845.5	1.24	937.1	1.37	1053.3	1.54	✓	55	98	84870	433.4	0.51	465.5	0.55	579.9	0.68	700.7	0.83	844.9	1	1035.0	1.22	1154.7	1.36	1313.4	1.55	✓	15
690-533105F0-xxxx-xxxx	55	100	86603	425.0	0.49	455.6	0.53	556.4	0.64	673.0	0.78	796.2	0.92	956.0	1.10	1097.2	1.27	1249.7	1.44	✓	75	125	108253	461.5	0.43	500.0	0.46	617.8	0.57	769.1	0.71	936.1	0.86	1104.0	1.02	1290.5	1.19	1500.2	1.39	✓	15
690-533145F0-xxxx-xxxx	75	125	108253	553.8	0.51	592.8	0.55	707.4	0.65	858.3	0.79	1023.6	0.95	1179.8	1.09	1360.3	1.26	1563.7	1.44	✓	90	156	135100	618.5	0.46	667.7	0.49	807.1	0.60	1002.2	0.74	1221.9	0.90	1395.7	1.03	1633.2	1.21	1907.3	1.41	✓	15
690-533156F0-xxxx-xxxx	90	156	135100	639.3	0.47	685.7	0.51	826.1	0.61	1008.4	0.75	1211.5	0.90	1388.6	1.03	1610.2	1.19	1863.1	1.38	✓	110	180	155885	731.4	0.47	786.0	0.50	958.5	0.61	1177.6	0.76	1428.9	0.92	1643.3	1.05	1910.2	1.23	2224.2	1.43	✓	15

Table Abbreviations:

- P_r = Rated drive power (expressed in kiloWatts)
- $I_{r, out}$ = Rated drive output current (expressed in Amps)
- $S_{r, equ}$ = Rated apparent drive output power (expressed in Volt-Amperes)
- $P_{L, CDM (X,Y)}$ = absolute power losses, CDM associated, in operating condition (X, Y), where X = Motor stator frequency (%) and Y = Torque producing current (%), (expressed in Watts)
- $p_{L, CDM (X,Y)}$ = relative power losses, CDM associated, in operating condition (X, Y), where X = Motor stator frequency (%) and Y = Torque producing current (%), (expressed as a Percentage)
- $P_{L, control standby}$ = Power losses, control board associated, when CDM is in standby mode (expressed in Watts)

Notes:

- All calculations performed at nominal 500V, 50Hz supply, using the default switching frequency of the drive rating. See Product Manual HA465492U006 for values.