



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

Rated Supply Voltage:	3x 500 – 575Vac +/-10%																																								
Rated Supply Frequency:	45 – 65 Hz																																								
Duty:	Heavy Duty																Normal Duty																								
Temperature Rating:	0 – 40°C																0 – 40°C																								
Product Code	P_r (HP)	$I_{r, OUT}$ (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 (HP)	$I_{r, OUT}$ (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)
890PXA-63160M-xxx-xxxxx	150	160	159349	1106.3	0.69	1150.2	0.72	1358.8	0.85	1547.0	0.97	1783.7	1.12	2086.4	1.31	2318.4	1.45	2617.7	1.64	✓	200	210	209145	1247.8	0.60	1308.0	0.63	1573.3	0.75	1842.2	0.88	2195.6	1.05	2527.9	1.21	2864.1	1.37	3315.7	1.59	✓	36.2
890PXA-63260M-xxx-xxxxx	250	260	258942	1320.7	0.51	1392.1	0.54	1742.1	0.67	1902.0	0.73	2077.1	0.80	2991.6	1.16	3392.6	1.31	3900.8	1.51	✓	300	310	308738	1461.4	0.47	1548.0	0.50	1968.3	0.64	2164.7	0.70	2387.5	0.77	3498.3	1.13	3999.8	1.30	4661.1	1.51	✓	36.2
890PXA-63310M-xxx-xxxxx	300	310	308738	1515.5	0.49	1611.0	0.52	2018.2	0.65	2225.2	0.72	2438.2	0.79	3479.7	1.13	3973.7	1.29	4556.8	1.48	✓	400	420	418290	1830.5	0.44	1964.5	0.47	2515.8	0.60	2812.8	0.67	3132.7	0.75	4562.9	1.09	5296.0	1.27	6208.9	1.48	✓	36.2
890PXA-63410M-xxx-xxxxx	400	410	408331	1846.9	0.45	1974.9	0.48	2517.3	0.62	2797.8	0.69	3095.6	0.76	4499.6	1.10	5179.6	1.27	6014.7	1.47	✓	500	480	478046	2027.9	0.42	2181.3	0.46	2804.7	0.59	3146.7	0.66	3524.3	0.74	5129.8	1.07	5979.3	1.25	7071.7	1.48	✓	36.2

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 575V, 50Hz supply, using the default switching frequency of the drive rating. See Product Manual HA501299U001 for values.



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Duty:	Heavy Duty																Heavy Duty																								
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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)	$p_{L, CDM (50,25)}$ (%)	$P_{L, CDM (50,50)}$ (W)	$p_{L, CDM (50,50)}$ (%)	$P_{L, CDM (50,100)}$ (W)	$p_{L, CDM (50,100)}$ (%)	$P_{L, CDM (90,50)}$ (W)	$p_{L, CDM (90,50)}$ (%)	$P_{L, CDM (90,100)}$ (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)	$p_{L, CDM (50,25)}$ (%)	$P_{L, CDM (50,50)}$ (W)	$p_{L, CDM (50,50)}$ (%)	$P_{L, CDM (90,50)}$ (W)	$p_{L, CDM (90,50)}$ (%)	$P_{L, CDM (90,100)}$ (W)	$p_{L, CDM (90,100)}$ (%)	IE2 Compliant	$P_{L, control standby}$ (W)										
890PXSA-73160M-xxx-xxxxx	132	160	191218	1227.3	0.64	1270.2	0.66	1508.9	0.79	1686.6	0.88	1899.7	0.99	2312.9	1.21	2531.0	1.32	2799.1	1.46	✓	160	190	227072	1310.8	0.58	1362.9	0.60	1636.8	0.72	1857.2	0.82	2128.4	0.94	2577.1	1.13	2849.7	1.25	3193.2	1.41	✓	36.2
890PXSA-73320M-xxx-xxxxx	280	320	382437	1770.7	0.46	1867.4	0.49	2350.7	0.61	2559.0	0.67	2773.8	0.73	4010.0	1.05	4500.4	1.18	5083.5	1.33	✓	355	390	466095	2005.6	0.43	2126.5	0.46	2714.1	0.58	2978.8	0.64	3261.5	0.70	4770.3	1.02	5409.9	1.16	6203.3	1.33	✓	36.2
890PXSA-73340M-xxx-xxxxx	315	340	406339	1858.8	0.46	1962.6	0.48	2483.5	0.61	2708.7	0.67	2944.7	0.72	4277.9	1.05	4814.2	1.18	5464.6	1.34	✓	400	430	513899	2137.2	0.42	2272.8	0.44	2919.7	0.57	3219.7	0.63	3546.0	0.69	5209.3	1.01	5945.7	1.16	6877.6	1.34	✓	36.2

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Notes:

- All calculations performed at nominal 690V, 50Hz supply, using the default switching frequency of the drive rating. See Product Manual HA501299U001 for values.