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

Manufacturer:	Parker Hannifin Manufacturing Germany GmbH & Co KG: Electric Motion & Pneumatic Division
Address:	Robert-Bosch-Str. 22 - 77656 Offenburg (Germany)
Product Series:	**AC10 Series (IP20 & IP66) Variable Speed Drives**
Rated Supply Voltage:	3x 220 – 240Vac +/-15%
Rated Supply Frequency:	50 – 60Hz +/-10%
Duty:	Heavy Duty / Normal Duty
Temperature Rating:	-10 – 50°C / n/a

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)
10G-31-0015-xx	**0.2**	**1.5**	**572**	45.4	7.9	45.8	8.0	45.6	8.0	46.3	8.1	46.9	8.2	47.5	8.3	48.7	8.5	**59.9**	**10.5**	✓	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7.5
10G-31-0025-xx	**0.4**	**2.5**	**953**	50.2	5.3	50.9	5.33	50.5	5.3	51.6	5.4	52.6	5.5	53.7	5.6	55.7	5.9	**69.3**	**7.3**	✓	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7.5
10G-31-0035-xx	**0.55**	**3.5**	**1334**	52.4	3.9	53.2	4.0	55.6	4.2	57.3	4.3	59.1	4.4	63.1	4.7	66.7	5.0	**85.4**	**6.4**	✓	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7.5
10G-31-0045-xx	**0.75**	**4.5**	**1715**	57.3	3.3	58.3	3.4	61.3	3.6	63.4	3.7	65.4	3.8	70.9	4.1	75.1	4.4	**95.6**	**5.6**	✓	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7.5
10G-32-0050-xx	**1.1**	**5**	**1905**	64.9	3.4	66.4	3.5	69.7	3.7	73.1	3.8	77.0	4.0	81.9	4.3	89.6	4.7	**99.8**	**5.2**	✓	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	20
10G-32-0070-xx	**1.5**	**7**	**2667**	74.8	2.8	77.0	2.9	81.5	3.1	86.3	3.2	91.8	3.4	98.6	3.7	109.5	4.1	**124.0**	**4.7**	✓	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	20
10G-32-0100-xx	**2.2**	**10**	**3811**	101.5	2.7	104.5	2.77	111.8	2.9	118.5	3.1	126.1	3.3	137.6	3.6	152.7	4.0	**172.6**	**4.5**	✓	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	20
10G-33-0170-xx	**4**	**17**	**6478**	113.7	1.8	118.8	1.8	128.8	2.0	139.9	2.2	150.9	2.3	167.6	2.6	192.9	3.0	**220.2**	**3.4**	✓	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	20
10G-34-0210-xx	**5.5**	**21**	**8002**	95.6	1.2	100.7	1.3	110.9	1.4	121.9	1.5	133.6	1.7	160.0	2.0	186.6	2.3	**219.4**	**2.7**	✓	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	20
10G-35-0300-xx	**7.5**	**30**	**11432**	126.3	1.1	133.6	1.2	151.9	1.3	168.2	1.5	187.1	1.6	232.8	2.0	274.6	2.4	**331.3**	**2.9**	✓	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	20
10G-35-0400-xx	**11**	**40**	**15242**	168.4	1.1	178.2	1.2	206.9	1.4	228.7	1.5	254.1	1.7	326.1	2.1	381.3	2.5	**456.9**	**3.0**	✓	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	20
10G-36-0550-xx	**15**	**55**	**21910**	213.1	1.0	226.2	1.1	261.7	1.2	289.9	1.4	319.3	1.5	407.1	1.9	475.6	2.3	**669.1**	**3.2**	✓	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	20

Table Abbreviations:

- P_r = Rated drive power (expressed in **k**ilo**W**atts)
- $I_{r,OUT}$ = Rated drive output current (expressed in **A**mps)
- $S_{r,equ}$ = Rated apparent drive output power (expressed in **V**olt-**A**mperes)
- $P_{L,CDM(X,Y)}$ = absolute power losses, CDM associated, in operating condition (X, Y), where X = Motor stator frequency (%) and Y = Torque producing current (%), (expressed in **W**atts)
- $p_{L,CDM(X,Y)}$ = 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 **W**atts)

Notes:

- All calculations performed at nominal 220V, 50Hz supply, using the default switching frequency of the drive rating. See Product Manual HA502320U001 for values.
- Products do not have a Normal Duty rating.

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

Rated Supply Voltage:	3x 380 – 480Vac +/-10%																																															
Rated Supply Frequency:	50 – 60Hz +/-10%																																															
Duty:	Heavy Duty																						Normal Duty																							
Temperature Rating:	-10 – 50°C																						n/a																							
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)
10G-41-0006-xx	**0.2**	**0.6**	**416**	50.4	12.1	50.6	12.2	50.5	12.1	50.7	12.2	51.0	12.3	51.5	12.4	51.9	12.5	**62.9**	**15.1**	✓	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7.5
10G-41-0010-xx	**0.4**	**1**	**693**	52.9	7.6	53.2	7.7	53.1	7.7	53.5	7.7	54.1	7.8	54.7	7.9	55.7	8.0	**68.2**	**9.8**	✓	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7.5
10G-41-0015-xx	**0.55**	**1.5**	**1039**	56.0	5.4	56.5	5.4	56.3	5.4	57.0	5.5	57.8	5.6	58.7	5.6	60.3	5.8	**74.5**	**7.2**	✓	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7.5
10G-42-0020-xx	**0.75**	**2**	**1386**	55.4	4.0	56.0	4.0	57.3	4.1	58.5	4.2	59.5	4.3	61.7	4.5	64.0	4.6	**66.1**	**4.8**	✓	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	20
10G-42-0030-xx	**1.1**	**3**	**2078**	59.5	2.9	60.5	2.9	62.4	3.0	64.4	3.1	66.5	3.2	69.1	3.3	73.4	3.5	**93.7**	**4.5**	✓	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	20
10G-42-0040-xx	**1.5**	**4**	**2771**	68.2	2.5	69.5	2.5	72.6	2.6	75.5	2.7	78.4	2.8	83.2	3.0	89.3	3.2	**115.7**	**4.2**	✓	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	20
10G-42-0065-xx	**2.2**	**6.5**	**4503**	89.1	2.0	91.4	2.0	96.6	2.1	101.8	2.3	107.5	2.4	114.8	2.5	126.3	2.8	**169.8**	**3.8**	✓	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	20
10G-43-0080-xx	**3.7**	**8**	**5543**	146.0	2.6	147.7	2.7	158.4	2.9	162.1	2.9	166.3	3.0	187.7	3.4	196.2	3.5	**207.1**	**3.7**	✓	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	20
10G-43-0090-xx	**4**	**9**	**6235**	159.6	2.6	161.5	2.6	173.7	2.8	178.1	2.9	183.2	2.9	207.4	3.3	217.5	3.5	**231.1**	**3.7**	✓	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	20
10G-43-0120-xx	**5.5**	**12**	**8314**	122.7	1.5	125.6	1.5	136.9	1.6	143.3	1.7	150.9	1.8	179.4	2.2	196.3	2.4	**219.9**	**2.6**	✓	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	20
10G-44-0170-xx	**7.5**	**17**	**11778**	136.4	1.2	140.9	1.2	157.8	1.3	167.8	1.4	179.4	1.5	223.2	1.9	248.2	2.1	**283.0**	**2.4**	✓	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	20
10G-44-0230-xx	**11**	**23**	**15935**	154.3	1.0	160.4	1.0	183.1	1.1	196.3	1.2	211.9	1.3	271.8	1.7	304.0	1.9	**350.2**	**2.2**	✓	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	20
10G-44-0320-xx	**15**	**32**	**22170**	209.9	0.9	219.1	1.0	262.1	1.2	283.4	1.3	308.9	1.4	431.2	1.9	489.8	2.2	**570.2**	**2.6**	✓	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	20
10G-45-0380-xx	**18.5**	**38**	**26327**	216.8	0.8	226.5	0.9	267.3	1.0	289.4	1.1	316.2	1.2	422.9	1.6	480.5	1.8	**563.4**	**2.1**	✓	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	20
10G-45-0440-xx	**22**	**40**	**30484**	223.4	0.7	239.2	0.8	282.2	0.9	318.6	1.0	361.3	1.2	469.5	1.5	567.5	1.9	**699.8**	**2.3**	✓	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	20
10G-46-0600-xx	**30**	**60**	**41569**	897.9	2.2	915.0	2.2	963.7	2.3	1002.3	2.4	1047.8	2.5	1159.8	2.8	1260.2	3.0	**1399.1**	**3.4**	✓	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	20
10G-47-0750-xx	**37**	**75**	**51962**	981.1	1.9	982.1	1.9	1063.5	2.0	1104.0	2.1	1151.8	2.2	1371.0	2.6	1483.3	2.9	**1639.2**	**3.2**	✓	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	20
10G-47-0900-xx	**45**	**90**	**62354**	1064.4	1.7	1087.2	1.7	1180.1	1.9	1281.5	2.1	1413.4	2.3	1511.2	2.4	1638.9	2.6	**1808.2**	**2.9**	✓	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	20
10G-48-1100-xx	**55**	**110**	**76210**	990.0	1.3	1014.5	1.3	1102.7	1.4	1215.8	1.6	1368.8	1.8	1428.8	1.9	1572.1	2.1	**1769.4**	**2.3**	✓	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	20
10G-48-1500-xx	**75**	**150**	**103923**	1098.6	1.1	1137.7	1.1	1263.1	1.2	1462.3	1.4	1761.0	1.7	1752.5	1.7	2006.1	1.9	**2393.1**	**2.3**	✓	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	20
10G-49-1800-xx	**90**	**180**	**124708**	1157.4	0.9	1211.6	1.0	1343.1	1.1	1551.6	1.2	1769.4	1.4	1906.4	1.5	2167.3	1.7	**2443.4**	**2.0**	✓	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	20
10G-49-2200-xx	**110**	**220**	**152420**	1265.1	0.8	1337.9	0.9	1506.9	1.0	1822.1	1.2	2212.8	1.5	2256.7	1.5	2660.3	1.7	**3166.0**	**2.1**	✓	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	20
10G-410-2650-xx	**132**	**265**	**183597**	1434.0	0.8	1505.8	0.8	1714.1	0.9	2045.0	1.1	2483.3	1.4	2571.6	1.4	3002.4	1.6	**3576.3**	**1.9**	✓	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	20
10G-411-3200-xx	**160**	**320**	**221703**	1596.6	0.7	1659.6	0.7	1952.0	0.9	2214.3	1.0	2518.6	1.1	3019.9	1.4	3359.6	1.5	**3756.0**	**1.7**	✓	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	20
10G-411-3600-xx	**180**	**360**	**249415**	1518.8	0.6	1610.4	0.6	1895.8	0.8	2110.8	0.8	2373.1	1.0	3054.3	1.2	3627.8	1.5	**4445.2**	**1.8**	✓	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	20

Table Abbreviations:

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- $I_{r,OUT}$ = Rated drive output current (expressed in **A**mps)
- $S_{r,equ}$ = Rated apparent drive output power (expressed in **V**olt-**A**mperes)
- $P_{L,CDM(X,Y)}$ = absolute power losses, CDM associated, in operating condition (X, Y), where X = Motor stator frequency (%) and Y = Torque producing current (%), (expressed in **W**atts)
- $p_{L,CDM(X,Y)}$ = 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 **W**atts)

Notes:

- All calculations performed at nominal 400V, 50Hz supply, using the default switching frequency of the drive rating. See Product Manual HA502320U001 for values.
- Products do not have a Normal Duty rating.

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Rated Supply Voltage:	3x 220 – 240Vac +/-15%																																											
Rated Supply Frequency:	50 – 60Hz +/-10%																																											
Duty:	Heavy Duty																				Normal Duty																							
Temperature Rating:	-10 – 40°C																				n/a																							
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)
16G-31-0025-xx	**0.4**	**2.5**	**953**	53.9	5.7	54.9	5.8	54.2	5.7	55.8	5.9	57.6	6.1	56.6	5.9	60.0	6.3	**64.4**	**6.8**	✓	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	20
16G-31-0045-xx	**0.75**	**4.5**	**1715**	60.8	3.5	62.2	3.5	64.2	3.7	67.2	3.9	70.7	4.1	72.2	4.2	79.0	4.6	**88.2**	**5.1**	✓	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	20
16G-31-0070-xx	**1.5**	**7**	**2667**	74.8	2.8	77.0	2.9	81.5	3.1	86.3	3.2	91.8	3.4	98.6	3.7	109.5	4.1	**124.0**	**4.7**	✓	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	20
16G-31-0100-xx	**2.2**	**10**	**3811**	89.8	2.4	92.8	2.4	99.3	2.6	106.0	2.8	113.7	3.0	123.8	3.2	138.9	3.6	**158.8**	**4.2**	✓	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	20

Table Abbreviations:

- P_r = Rated drive power (expressed in **k**ilo**W**atts)
- $I_{r,OUT}$ = Rated drive output current (expressed in **A**mps)
- $S_{r,equ}$ = Rated apparent drive output power (expressed in **V**olt-**A**mperes)
- $P_{L,CDM(X,Y)}$ = absolute power losses, CDM associated, in operating condition (X, Y), where X = Motor stator frequency (%) and Y = Torque producing current (%), (expressed in **W**atts)
- $p_{L,CDM(X,Y)}$ = 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 **W**atts)

Notes:

- All calculations performed at nominal 220V, 50Hz supply, using the default switching frequency of the drive rating. See Product Manual HA502703U001 for values.
- Products do not have a Normal Duty rating.

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

Rated Supply Voltage:	3x 380 – 480Vac +/-10%																																													
Rated Supply Frequency:	50 – 60Hz +/-10%																																													
Duty:	Heavy Duty																					Normal Duty																							
Temperature Rating:	-10 – 40°C																					n/a																							
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)
16G-41-0020-xx	**0.75**	**2**	**1386**	70.6	5.1	71.0	5.1	73.3	5.3	74.1	5.3	74.9	5.4	79.3	5.7	81.0	5.8	**82.8**	**6.0**	✓	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	20
16G-41-0040-xx	**1.5**	**4**	**2771**	98.5	3.6	99.5	3.6	105.5	3.8	107.6	3.9	109.7	4.0	121.9	4.4	126.4	4.6	**131.5**	**4.7**	✓	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	20
16G-41-0065-xx	**2.2**	**6.5**	**4503**	138.9	3.1	140.5	3.1	151.0	3.4	154.4	3.4	158.2	3.5	179.5	4.0	187.1	4.2	**196.8**	**4.4**	✓	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	20
16G-41-0080-xx	**3.7**	**8**	**5543**	149.0	2.7	151.2	2.7	161.9	2.9	166.4	3.0	170.8	3.1	192.3	3.5	201.6	3.6	**211.8**	**3.8**	✓	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	20
16G-41-0090-xx	**4**	**9**	**6235**	163.2	2.6	165.6	2.7	178.0	2.9	183.1	2.9	188.1	3.0	213.3	3.4	223.7	3.6	**235.4**	**3.8**	✓	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	20
16G-42-0120-xx	**5.5**	**12**	**8314**	125.4	1.5	128.1	1.5	139.8	1.7	145.4	1.7	151.5	1.8	182.5	2.2	195.8	2.4	**212.5**	**2.6**	✓	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	20
16G-42-0170-xx	**7.5**	**17**	**11778**	132.5	1.1	136.1	1.2	151.8	1.3	159.6	1.4	168.0	1.4	210.0	1.8	228.8	1.9	**252.5**	**2.1**	✓	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	20
16G-43-0230-xx	**11**	**23**	**15935**	148.3	0.9	154.0	1.0	176.4	1.1	189.7	1.2	207.4	1.3	263.7	1.7	300.5	1.9	**357.8**	**2.2**	✓	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	20
16G-43-0320-xx	**15**	**32**	**22170**	208.1	0.9	216.8	1.0	253.7	1.1	275.5	1.2	307.2	1.4	393.7	1.8	458.0	2.1	**566.5**	**2.6**	✓	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	20
16G-44-0380-xx	**18.5**	**38**	**26327**	211.5	0.8	221.1	0.8	254.8	1.0	275.2	1.0	296.6	1.1	386.6	1.5	434.7	1.7	**493.4**	**1.9**	✓	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	20
16G-44-0440-xx	**22**	**44**	**30484**	232.5	0.8	243.6	0.8	283.3	0.9	306.3	1.0	331.3	1.1	438.0	1.4	489.6	1.6	**557.6**	**1.8**	✓	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	20
16G-44-0600-xx	**30**	**60**	**41569**	275.3	0.7	292.1	0.7	341.4	0.8	378.5	0.9	420.4	1.0	539.5	1.3	632.8	1.5	**756.2**	**1.8**	✓	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	20
16G-45-0750-xx	**37**	**75**	**51962**	355.1	0.7	355.4	0.7	433.4	0.8	467.5	0.9	500.3	1.0	717.3	1.4	797.2	1.5	**885.1**	**1.7**	✓	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	20
16G-45-0900-xx	**45**	**90**	**62354**	419.4	0.7	443.2	0.7	547.6	0.9	641.2	1.0	744.3	1.2	930.0	1.5	1045.0	1.7	**1174.3**	**1.9**	✓	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	20
16G-45-1100-xx	**55**	**110**	**76210**	413.4	0.5	437.5	0.6	542.6	0.7	634.2	0.8	732.7	1.0	916.2	1.2	1024.5	1.3	**1144.5**	**1.5**	✓	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	20
16G-46-1500-xx	**75**	**150**	**103923**	558.1	0.5	596.3	0.6	744.0	0.7	921.7	0.9	1170.3	1.1	1288.9	1.2	1505.8	1.4	**1820.1**	**1.8**	✓	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	20
16G-46-1800-xx	**90**	**180**	**124708**	550.2	0.4	610.7	0.5	748.1	0.6	1000.6	0.8	1305.1	1.0	1362.7	1.1	1675.3	1.3	**2060.7**	**1.7**	✓	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	20

Table Abbreviations:

- P_r = Rated drive power (expressed in **k**ilo**W**atts)
- $I_{r,OUT}$ = Rated drive output current (expressed in **A**mps)
- $S_{r,equ}$ = Rated apparent drive output power (expressed in **V**olt-**A**mperes)
- $P_{L,CDM(X,Y)}$ = absolute power losses, CDM associated, in operating condition (X, Y), where X = Motor stator frequency (%) and Y = Torque producing current (%), (expressed in **W**atts)
- $p_{L,CDM(X,Y)}$ = 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 **W**atts)

Notes:

- All calculations performed at nominal 400V, 50Hz supply, using the default switching frequency of the drive rating. See Product Manual HA502703U001 for values.
- Products do not have a Normal Duty rating.