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:	**AC15 Series Variable Speed Drives**
Rated Supply Voltage:	3x 220 – 240Vac +/-10%
Rated Supply Frequency:	50 – 60Hz +/-10%
Duty:	Heavy Duty / Normal Duty
Temperature Rating:	0 – 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
15G-31-0025-BF	**0.37**	**2.5**	**953**	64.9	6.8	65.6	6.9	65.3	6.9	66.4	7.0	67.6	7.1	68.8	7.2	71.1	7.5	**73.7**	**7.7**	✓
15G-31-0045-BF	**0.75**	**4.4**	**1715**	64.6	3.8	65.6	3.8	68.5	4.0	70.6	4.1	72.8	4.2	78.2	4.6	82.7	4.8	**88.1**	**5.1**	✓
15G-31-0070-BF	**1.5**	**7.0**	**2425**	74.8	3.1	76.8	3.2	80.3	3.3	84.6	3.5	89.5	3.7	93.7	3.9	103.3	4.3	**115.8**	**4.8**	✓
15G-32-0100-BF	**2.2**	**10**	**3464**	105.1	3.0	108.1	3.1	114.3	3.3	120.7	3.5	127.0	3.7	136.6	3.9	150.0	4.3	**165.2**	**4.8**	✓
15G-33-0170-BF	**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**	✓
15G-34-0210-BF	**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**	✓
15G-35-0300-BF	**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	**331.4**	**2.9**	✓
15G-35-0400-BF	**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**	✓

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	$P_{L,control\ standby}$ (W)
15G-31-0025-BF	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**20**
15G-31-0045-BF	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**20**
15G-31-0070-BF	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**20**
15G-32-0100-BF	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**20**
15G-33-0170-BF	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**20**
15G-34-0210-BF	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**20**
15G-35-0300-BF	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**20**
15G-35-0400-BF	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**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 DOC-0017-03 for values.
- Products do not have a Normal Duty rating.

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Rated Supply Voltage:	3x 380 – 480Vac +/-10%																																									
Rated Supply Frequency:	50 – 60Hz +/-10%																																									
Duty:	Heavy Duty																				Normal Duty																					
Temperature Rating:	0 – 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)
15G-41-0012-BF	**0.37**	**1.2**	**831**	66.9	8.1	67.3	8.1	67.2	8.1	67.7	8.1	68.2	8.2	69.4	8.3	70.4	8.5	**71.6**	**8.6**	✓	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**10**
15G-41-0020-BF	**0.75**	**2**	**1386**	70.1	5.1	70.6	5.1	72.9	5.3	74.1	5.3	75.6	5.5	79.6	5.7	82.3	5.9	**86.6**	**6.2**	✓	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**20**
15G-41-0040-BF	**1.5**	**4**	**2771**	82.6	3.0	83.5	3.0	88.3	3.2	90.0	3.2	91.6	3.3	101.8	3.7	105.3	3.8	**130.6**	**4.7**	✓	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**20**
15G-42-0065-BF	**2.2**	**6.5**	**4503**	110.5	2.5	112.5	2.5	120.1	2.7	125.0	2.8	132.1	2.9	143.5	3.2	156.2	3.5	**212.3**	**4.7**	✓	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**20**
15G-42-0090-BF	**4**	**9**	**6235**	137.9	2.2	140.7	2.3	150.0	2.4	156.5	2.5	164.9	2.6	179.1	2.9	194.8	3.1	**218.0**	**3.5**	✓	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**20**
15G-43-0120-BF	**5.5**	**12**	**8314**	163.5	2.0	166.3	2.0	182.4	2.2	188.8	2.3	196.5	2.4	237.6	2.9	254.6	3.1	**278.2**	**3.3**	✓	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**20**
15G-43-0170-BF	**7.5**	**17**	**11778**	190.0	1.6	194.6	1.7	219.1	1.9	229.8	2.0	242.0	2.1	305.5	2.6	334.2	2.8	**372.0**	**3.2**	✓	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**20**
15G-44-0230-BF	**11**	**23**	**15935**	178.6	1.1	186.1	1.2	211.4	1.3	227.4	1.4	244.7	1.5	310.6	1.9	349.5	2.2	**398.3**	**2.5**	✓	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**20**
15G-44-0320-BF	**15**	**32**	**22170**	210.8	1.0	220.8	1.0	256.1	1.2	278.1	1.3	303.0	1.4	393.8	1.8	449.1	2.0	**521.8**	**2.4**	✓	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**20**
15G-45-0380-BF	**18.5**	**38**	**26327**	195.2	0.7	207.7	0.8	242.5	0.9	270.1	1.0	300.8	1.1	391.6	1.5	461.1	1.8	**551.1**	**2.1**	✓	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**20**
15G-45-0440-BF	**22**	**44**	**30484**	209.5	0.7	219.6	0.7	260.2	0.9	281.7	0.9	303.5	1.0	415.1	1.4	466.7	1.5	**526.3**	**1.7**	✓	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**20**
15G-45-0600-BF	**30**	**60**	**41569**	928.5	2.2	944.1	2.3	999.5	2.4	1034.7	2.5	1078.7	2.6	1214.5	2.9	1304.3	3.1	**1439.7**	**3.5**	✓	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**20**

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Notes:

- All calculations performed at nominal 400V, 50Hz supply, using the default switching frequency of the drive rating. See Product Manual DOC-0017-03 for values.
- Products do not have a Normal Duty rating.

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