



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 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Address: | Robert-Bosch-Str. 22 - 77656 Offenburg (Germany) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Product Series: | AC20 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 | 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) | | | | | | | | |
| 20G-32-0070-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 | ✓ | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 20 |
| 20G-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 | ✓ | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 20 |
| 20G-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 | ✓ | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 20 | |
| 20G-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 | ✓ | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 20 | |
| 20G-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 | ✓ | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 20 |
| 20G-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 | ✓ | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 20 |

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 220V, 50Hz supply, using the default switching frequency of the drive rating. See Product Manual DOC-0017-04 for values.
- Products do not have a Normal Duty rating.

