# Energy Efficiency Report

Drive efficiency according to IEC 61800-9-2

**Efficiency level:** IE2

| | |
|---|---|
| Series: | **MS300** |
| Model name: | **VFD1A6MS11ANSAA** |

| | | |
|---|---|---|
| Apparent output power | **0.6** | kVA |
| Rated output current | **1.6** | A |
| Rated power output | **0.2** | kW |
| Rated supply voltage | **100-120** | V |
| Rated supply frequency | **50/60** | Hz |
| Standby loss | **5** | W |
| Maximum operating temperature | **50** | °C |

| Frequency (%) | Current (%) | Power loss (W) | Relative Power loss (%) |
|---|---|---|---|
| 90 | 100 | **29.1** | **4.9** |
| 50 | 100 | **27.2** | **4.5** |
| 0 | 100 | **25** | **4.2** |
| 90 | 50 | **26** | **4.3** |
| 50 | 50 | **25** | **4.2** |
| 0 | 50 | **23.8** | **4** |
| 50 | 25 | **24.4** | **4.1** |
| 0 | 25 | **23.7** | **4** |

Delta Electronics Inc. All Right Reserved

# Energy Efficiency Report

Drive efficiency according to IEC 61800-9-2

**Efficiency level:** IE2

| | |
|---|---|
| Series: | **MS300** |
| Model name: | **VFD1A6MS11ENSAA** |

| | | |
|---|---|---|
| Apparent output power | **0.6** | kVA |
| Rated output current | **1.6** | A |
| Rated power output | **0.2** | kW |
| Rated supply voltage | **100-120** | V |
| Rated supply frequency | **50/60** | Hz |
| Standby loss | **5** | W |
| Maximum operating temperature | **40** | °C |

| Frequency (%) | Current (%) | Power loss (W) | Relative Power loss (%) |
|---|---|---|---|
| 90 | 100 | **29.1** | **4.9** |
| 50 | 100 | **27.2** | **4.5** |
| 0 | 100 | **25** | **4.2** |
| 90 | 50 | **26** | **4.3** |
| 50 | 50 | **25** | **4.2** |
| 0 | 50 | **23.8** | **4** |
| 50 | 25 | **24.4** | **4.1** |
| 0 | 25 | **23.7** | **4** |

Delta Electronics Inc. All Right Reserved

# Energy Efficiency Report

Drive efficiency according to IEC 61800-9-2

**Efficiency level:** IE2

| | |
|---|---|
| Series: | **MS300** |
| Model name: | **VFD2A5MS11ANSAA** |

| | | |
|---|---|---|
| Apparent output power | **1** | kVA |
| Rated output current | **2.5** | A |
| Rated power output | **0.4** | kW |
| Rated supply voltage | **100-120** | V |
| Rated supply frequency | **50/60** | Hz |
| Standby loss | **5** | W |
| Maximum operating temperature | **50** | °C |

| Frequency (%) | Current (%) | Power loss (W) | Relative Power loss (%) |
|---|---|---|---|
| 90 | 100 | **34.9** | **3.5** |
| 50 | 100 | **31.3** | **3.1** |
| 0 | 100 | **27.3** | **2.7** |
| 90 | 50 | **29.6** | **3** |
| 50 | 50 | **27.7** | **2.8** |
| 0 | 50 | **25.6** | **2.6** |
| 50 | 25 | **26.7** | **2.7** |
| 0 | 25 | **25.4** | **2.5** |

Delta Electronics Inc. All Right Reserved

# Energy Efficiency Report

Drive efficiency according to IEC 61800-9-2

**Efficiency level:** IE2

| | |
|---|---|
| Series: | **MS300** |
| Model name: | **VFD2A5MS11ENSAA** |

| | | |
|---|---|---|
| Apparent output power | **1** | kVA |
| Rated output current | **2.5** | A |
| Rated power output | **0.4** | kW |
| Rated supply voltage | **100-120** | V |
| Rated supply frequency | **50/60** | Hz |
| Standby loss | **5** | W |
| Maximum operating temperature | **40** | °C |

| Frequency (%) | Current (%) | Power loss (W) | Relative Power loss (%) |
|---|---|---|---|
| 90 | 100 | **34.9** | **3.5** |
| 50 | 100 | **31.3** | **3.1** |
| 0 | 100 | **27.3** | **2.7** |
| 90 | 50 | **29.6** | **3** |
| 50 | 50 | **27.7** | **2.8** |
| 0 | 50 | **25.6** | **2.6** |
| 50 | 25 | **26.7** | **2.7** |
| 0 | 25 | **25.4** | **2.5** |

Delta Electronics Inc. All Right Reserved

# Energy Efficiency Report

Drive efficiency according to IEC 61800-9-2

**Efficiency level:** IE2

| | |
|---|---|
| Series: | **MS300** |
| Model name: | **VFD4A8MS11ANSAA** |

| | | |
|---|---|---|
| Apparent output power | **1.8** | kVA |
| Rated output current | **4.8** | A |
| Rated power output | **0.75** | kW |
| Rated supply voltage | **100-120** | V |
| Rated supply frequency | **50/60** | Hz |
| Standby loss | **8** | W |
| Maximum operating temperature | **50** | °C |

| Frequency (%) | Current (%) | Power loss (W) | Relative Power loss (%) |
|---|---|---|---|
| 90 | 100 | **54.7** | **3** |
| 50 | 100 | **47.5** | **2.6** |
| 0 | 100 | **40.3** | **2.2** |
| 90 | 50 | **42.2** | **2.3** |
| 50 | 50 | **38.9** | **2.2** |
| 0 | 50 | **35.2** | **2** |
| 50 | 25 | **34.8** | **1.9** |
| 0 | 25 | **33** | **1.8** |

Delta Electronics Inc. All Right Reserved

# Energy Efficiency Report

Drive efficiency according to IEC 61800-9-2

**Efficiency level:** IE2

| | |
|---|---|
| Series: | **MS300** |
| Model name: | **VFD4A8MS11ENSAA** |

| | | |
|---|---|---|
| Apparent output power | **1.8** | kVA |
| Rated output current | **4.8** | A |
| Rated power output | **0.75** | kW |
| Rated supply voltage | **100-120** | V |
| Rated supply frequency | **50/60** | Hz |
| Standby loss | **8** | W |
| Maximum operating temperature | **40** | °C |

| Frequency (%) | Current (%) | Power loss (W) | Relative Power loss (%) |
|---|---|---|---|
| 90 | 100 | **54.7** | **3** |
| 50 | 100 | **47.5** | **2.6** |
| 0 | 100 | **40.3** | **2.2** |
| 90 | 50 | **42.2** | **2.3** |
| 50 | 50 | **38.9** | **2.2** |
| 0 | 50 | **35.2** | **2** |
| 50 | 25 | **34.8** | **1.9** |
| 0 | 25 | **33** | **1.8** |

Delta Electronics Inc. All Right Reserved

# Energy Efficiency Report

Drive efficiency according to IEC 61800-9-2

**Efficiency level:** IE2

| | |
|---|---|
| Series: | **MS300** |
| Model name: | **VFD1A6MS21ANSAA** |

| | | |
|---|---|---|
| Apparent output power | **0.6** | kVA |
| Rated output current | **1.6** | A |
| Rated power output | **0.2** | kW |
| Rated supply voltage | **200-240** | V |
| Rated supply frequency | **50/60** | Hz |
| Standby loss | **5** | W |
| Maximum operating temperature | **50** | °C |

| Frequency (%) | Current (%) | Power loss (W) | Relative Power loss (%) |
|---|---|---|---|
| 90 | 100 | **31.1** | **5.2** |
| 50 | 100 | **30.2** | **5** |
| 0 | 100 | **29.1** | **4.9** |
| 90 | 50 | **28.7** | **4.8** |
| 50 | 50 | **28.2** | **4.7** |
| 0 | 50 | **27.7** | **4.6** |
| 50 | 25 | **27.9** | **4.7** |
| 0 | 25 | **27.5** | **4.6** |

Delta Electronics Inc. All Right Reserved

# Energy Efficiency Report

Drive efficiency according to IEC 61800-9-2

**Efficiency level:** IE2

| | |
|---|---|
| Series: | **MS300** |
| Model name: | **VFD1A6MS21ENSAA** |

| | | |
|---|---|---|
| Apparent output power | **0.6** | kVA |
| Rated output current | **1.6** | A |
| Rated power output | **0.2** | kW |
| Rated supply voltage | **200-240** | V |
| Rated supply frequency | **50/60** | Hz |
| Standby loss | **5** | W |
| Maximum operating temperature | **40** | °C |

| Frequency (%) | Current (%) | Power loss (W) | Relative Power loss (%) |
|---|---|---|---|
| 90 | 100 | **31.1** | **5.2** |
| 50 | 100 | **30.2** | **5** |
| 0 | 100 | **29.1** | **4.9** |
| 90 | 50 | **28.7** | **4.8** |
| 50 | 50 | **28.2** | **4.7** |
| 0 | 50 | **27.7** | **4.6** |
| 50 | 25 | **27.9** | **4.7** |
| 0 | 25 | **27.5** | **4.6** |

Delta Electronics Inc. All Right Reserved

# Energy Efficiency Report

Drive efficiency according to IEC 61800-9-2

**Efficiency level:** IE2

| | |
|---|---|
| Series: | **MS300** |
| Model name: | **VFD1A6MS21AFSAA** |

| | | |
|---|---|---|
| Apparent output power | **0.6** | kVA |
| Rated output current | **1.6** | A |
| Rated power output | **0.2** | kW |
| Rated supply voltage | **200-240** | V |
| Rated supply frequency | **50/60** | Hz |
| Standby loss | **5** | W |
| Maximum operating temperature | **50** | °C |

| Frequency (%) | Current (%) | Power loss (W) | Relative Power loss (%) |
|---|---|---|---|
| 90 | 100 | **32.7** | **5.5** |
| 50 | 100 | **31.6** | **5.3** |
| 0 | 100 | **30.5** | **5.1** |
| 90 | 50 | **30.2** | **5** |
| 50 | 50 | **29.7** | **5** |
| 0 | 50 | **29.1** | **4.9** |
| 50 | 25 | **29.3** | **4.9** |
| 0 | 25 | **28.9** | **4.8** |

Delta Electronics Inc. All Right Reserved

# Energy Efficiency Report

Drive efficiency according to IEC 61800-9-2

**Efficiency level:** IE2

| | |
|---|---|
| Series: | **MS300** |
| Model name: | **VFD1A6MS21EFSAA** |

| | | |
|---|---|---|
| Apparent output power | **0.6** | kVA |
| Rated output current | **1.6** | A |
| Rated power output | **0.2** | kW |
| Rated supply voltage | **200-240** | V |
| Rated supply frequency | **50/60** | Hz |
| Standby loss | **5** | W |
| Maximum operating temperature | **40** | °C |

| Frequency (%) | Current (%) | Power loss (W) | Relative Power loss (%) |
|---|---|---|---|
| 90 | 100 | **32.7** | **5.5** |
| 50 | 100 | **31.6** | **5.3** |
| 0 | 100 | **30.5** | **5.1** |
| 90 | 50 | **30.2** | **5** |
| 50 | 50 | **29.7** | **5** |
| 0 | 50 | **29.1** | **4.9** |
| 50 | 25 | **29.3** | **4.9** |
| 0 | 25 | **28.9** | **4.8** |

Delta Electronics Inc. All Right Reserved

# Energy Efficiency Report

Drive efficiency according to IEC 61800-9-2

**Efficiency level:** IE2

| | |
|---|---|
| Series: | **MS300** |
| Model name: | **VFD2A8MS21ANSAA** |

| | | |
|---|---|---|
| Apparent output power | **1.1** | kVA |
| Rated output current | **2.8** | A |
| Rated power output | **0.4** | kW |
| Rated supply voltage | **200-240** | V |
| Rated supply frequency | **50/60** | Hz |
| Standby loss | **5** | W |
| Maximum operating temperature | **50** | °C |

| Frequency (%) | Current (%) | Power loss (W) | Relative Power loss (%) |
|---|---|---|---|
| 90 | 100 | **37** | **3.4** |
| 50 | 100 | **35.1** | **3.2** |
| 0 | 100 | **33** | **3** |
| 90 | 50 | **32.7** | **3** |
| 50 | 50 | **31.8** | **2.9** |
| 0 | 50 | **30.6** | **2.8** |
| 50 | 25 | **31.1** | **2.8** |
| 0 | 25 | **30.3** | **2.8** |

Delta Electronics Inc. All Right Reserved

# Energy Efficiency Report

Drive efficiency according to IEC 61800-9-2

**Efficiency level:** IE2

| | |
|---|---|
| Series: | **MS300** |
| Model name: | **VFD2A8MS21ENSAA** |

| | | |
|---|---|---|
| Apparent output power | **1.1** | kVA |
| Rated output current | **2.8** | A |
| Rated power output | **0.4** | kW |
| Rated supply voltage | **200-240** | V |
| Rated supply frequency | **50/60** | Hz |
| Standby loss | **5** | W |
| Maximum operating temperature | **40** | °C |

| Frequency (%) | Current (%) | Power loss (W) | Relative Power loss (%) |
|---|---|---|---|
| 90 | 100 | **37** | **3.4** |
| 50 | 100 | **35.1** | **3.2** |
| 0 | 100 | **33** | **3** |
| 90 | 50 | **32.7** | **3** |
| 50 | 50 | **31.8** | **2.9** |
| 0 | 50 | **30.6** | **2.8** |
| 50 | 25 | **31.1** | **2.8** |
| 0 | 25 | **30.3** | **2.8** |

Delta Electronics Inc. All Right Reserved

# Energy Efficiency Report

Drive efficiency according to IEC 61800-9-2

**Efficiency level:** IE2

| | |
|---|---|
| Series: | **MS300** |
| Model name: | **VFD2A8MS21AFSAA** |

| | | |
|---|---|---|
| Apparent output power | **1.1** | kVA |
| Rated output current | **2.8** | A |
| Rated power output | **0.4** | kW |
| Rated supply voltage | **200-240** | V |
| Rated supply frequency | **50/60** | Hz |
| Standby loss | **5** | W |
| Maximum operating temperature | **50** | °C |

| Frequency (%) | Current (%) | Power loss (W) | Relative Power loss (%) |
|---|---|---|---|
| 90 | 100 | **38.9** | **3.5** |
| 50 | 100 | **36.7** | **3.3** |
| 0 | 100 | **34.4** | **3.1** |
| 90 | 50 | **34.3** | **3.1** |
| 50 | 50 | **33.2** | **3** |
| 0 | 50 | **32** | **2.9** |
| 50 | 25 | **32.5** | **3** |
| 0 | 25 | **31.8** | **2.9** |

Delta Electronics Inc. All Right Reserved

# Energy Efficiency Report

Drive efficiency according to IEC 61800-9-2

**Efficiency level:** IE2

| | |
|---|---|
| Series: | **MS300** |
| Model name: | **VFD2A8MS21EFSAA** |

| | | |
|---|---|---|
| Apparent output power | **1.1** | kVA |
| Rated output current | **2.8** | A |
| Rated power output | **0.4** | kW |
| Rated supply voltage | **200-240** | V |
| Rated supply frequency | **50/60** | Hz |
| Standby loss | **5** | W |
| Maximum operating temperature | **40** | °C |

| Frequency (%) | Current (%) | Power loss (W) | Relative Power loss (%) |
|---|---|---|---|
| 90 | 100 | **38.9** | **3.5** |
| 50 | 100 | **36.7** | **3.3** |
| 0 | 100 | **34.4** | **3.1** |
| 90 | 50 | **34.3** | **3.1** |
| 50 | 50 | **33.2** | **3** |
| 0 | 50 | **32** | **2.9** |
| 50 | 25 | **32.5** | **3** |
| 0 | 25 | **31.8** | **2.9** |

Delta Electronics Inc. All Right Reserved

# Energy Efficiency Report

Drive efficiency according to IEC 61800-9-2

**Efficiency level:** IE2

| | |
|---|---|
| Series: | **MS300** |
| Model name: | **VFD4A8MS21ANSAA** |

| | | |
|---|---|---|
| Apparent output power | **1.8** | kVA |
| Rated output current | **4.8** | A |
| Rated power output | **0.75** | kW |
| Rated supply voltage | **200-240** | V |
| Rated supply frequency | **50/60** | Hz |
| Standby loss | **8** | W |
| Maximum operating temperature | **50** | °C |

| Frequency (%) | Current (%) | Power loss (W) | Relative Power loss (%) |
|---|---|---|---|
| 90 | 100 | **52** | **2.9** |
| 50 | 100 | **48** | **2.7** |
| 0 | 100 | **43.8** | **2.4** |
| 90 | 50 | **40.9** | **2.3** |
| 50 | 50 | **39** | **2.2** |
| 0 | 50 | **36.8** | **2** |
| 50 | 25 | **35** | **1.9** |
| 0 | 25 | **33.9** | **1.9** |

Delta Electronics Inc. All Right Reserved

# Energy Efficiency Report

Drive efficiency according to IEC 61800-9-2

**Efficiency level:** IE2

| | |
|---|---|
| Series: | **MS300** |
| Model name: | **VFD4A8MS21ENSAA** |

| | | |
|---|---|---|
| Apparent output power | **1.8** | kVA |
| Rated output current | **4.8** | A |
| Rated power output | **0.75** | kW |
| Rated supply voltage | **200-240** | V |
| Rated supply frequency | **50/60** | Hz |
| Standby loss | **8** | W |
| Maximum operating temperature | **40** | °C |

| Frequency (%) | Current (%) | Power loss (W) | Relative Power loss (%) |
|---|---|---|---|
| 90 | 100 | **52** | **2.9** |
| 50 | 100 | **48** | **2.7** |
| 0 | 100 | **43.8** | **2.4** |
| 90 | 50 | **40.9** | **2.3** |
| 50 | 50 | **39** | **2.2** |
| 0 | 50 | **36.8** | **2** |
| 50 | 25 | **35** | **1.9** |
| 0 | 25 | **33.9** | **1.9** |

Delta Electronics Inc. All Right Reserved

# Energy Efficiency Report

Drive efficiency according to IEC 61800-9-2

**Efficiency level:** IE2

| | |
|---|---|
| Series: | **MS300** |
| Model name: | **VFD4A8MS21AFSAA** |

| | | |
|---|---|---|
| Apparent output power | **1.8** | kVA |
| Rated output current | **4.8** | A |
| Rated power output | **0.75** | kW |
| Rated supply voltage | **200-240** | V |
| Rated supply frequency | **50/60** | Hz |
| Standby loss | **8** | W |
| Maximum operating temperature | **50** | °C |

| Frequency (%) | Current (%) | Power loss (W) | Relative Power loss (%) |
|---|---|---|---|
| 90 | 100 | **54.7** | **3** |
| 50 | 100 | **49.9** | **2.8** |
| 0 | 100 | **45.2** | **2.5** |
| 90 | 50 | **42.7** | **2.4** |
| 50 | 50 | **40.6** | **2.3** |
| 0 | 50 | **38.3** | **2.1** |
| 50 | 25 | **36.5** | **2** |
| 0 | 25 | **35.4** | **2** |

Delta Electronics Inc. All Right Reserved

# Energy Efficiency Report

Drive efficiency according to IEC 61800-9-2

**Efficiency level:** IE2

| | |
|---|---|
| Series: | **MS300** |
| Model name: | **VFD4A8MS21EFSAA** |

| | | |
|---|---|---|
| Apparent output power | **1.8** | kVA |
| Rated output current | **4.8** | A |
| Rated power output | **0.75** | kW |
| Rated supply voltage | **200-240** | V |
| Rated supply frequency | **50/60** | Hz |
| Standby loss | **8** | W |
| Maximum operating temperature | **40** | °C |

| Frequency (%) | Current (%) | Power loss (W) | Relative Power loss (%) |
|---|---|---|---|
| 90 | 100 | **54.7** | **3** |
| 50 | 100 | **49.9** | **2.8** |
| 0 | 100 | **45.2** | **2.5** |
| 90 | 50 | **42.7** | **2.4** |
| 50 | 50 | **40.6** | **2.3** |
| 0 | 50 | **38.3** | **2.1** |
| 50 | 25 | **36.5** | **2** |
| 0 | 25 | **35.4** | **2** |

Delta Electronics Inc. All Right Reserved

# Energy Efficiency Report

Drive efficiency according to IEC 61800-9-2

**Efficiency level:** IE2

| | |
|---|---|
| Series: | **MS300** |
| Model name: | **VFD7A5MS21ANSAA** |

| | | |
|---|---|---|
| Apparent output power | **2.9** | kVA |
| Rated output current | **7.5** | A |
| Rated power output | **1.5** | kW |
| Rated supply voltage | **200-240** | V |
| Rated supply frequency | **50/60** | Hz |
| Standby loss | **8** | W |
| Maximum operating temperature | **50** | °C |

| Frequency (%) | Current (%) | Power loss (W) | Relative Power loss (%) |
|---|---|---|---|
| 90 | 100 | **74.2** | **2.6** |
| 50 | 100 | **69** | **2.4** |
| 0 | 100 | **63.4** | **2.2** |
| 90 | 50 | **56.6** | **2** |
| 50 | 50 | **54.2** | **1.9** |
| 0 | 50 | **51.4** | **1.8** |
| 50 | 25 | **47.9** | **1.7** |
| 0 | 25 | **46.5** | **1.6** |

Delta Electronics Inc. All Right Reserved

# Energy Efficiency Report

Drive efficiency according to IEC 61800-9-2

**Efficiency level:** IE2

| | |
|---|---|
| Series: | **MS300** |
| Model name: | **VFD7A5MS21ENSAA** |

| | | |
|---|---|---|
| Apparent output power | **2.9** | kVA |
| Rated output current | **7.5** | A |
| Rated power output | **1.5** | kW |
| Rated supply voltage | **200-240** | V |
| Rated supply frequency | **50/60** | Hz |
| Standby loss | **8** | W |
| Maximum operating temperature | **40** | °C |

| Frequency (%) | Current (%) | Power loss (W) | Relative Power loss (%) |
|---|---|---|---|
| 90 | 100 | **74.2** | **2.6** |
| 50 | 100 | **69** | **2.4** |
| 0 | 100 | **63.4** | **2.2** |
| 90 | 50 | **56.6** | **2** |
| 50 | 50 | **54.2** | **1.9** |
| 0 | 50 | **51.4** | **1.8** |
| 50 | 25 | **47.9** | **1.7** |
| 0 | 25 | **46.5** | **1.6** |

Delta Electronics Inc. All Right Reserved

# Energy Efficiency Report

Drive efficiency according to IEC 61800-9-2

**Efficiency level:** IE2

| | |
|---|---|
| Series: | **MS300** |
| Model name: | **VFD7A5MS21AFSAA** |

| | | |
|---|---|---|
| Apparent output power | **2.9** | kVA |
| Rated output current | **7.5** | A |
| Rated power output | **1.5** | kW |
| Rated supply voltage | **200-240** | V |
| Rated supply frequency | **50/60** | Hz |
| Standby loss | **8** | W |
| Maximum operating temperature | **50** | °C |

| Frequency (%) | Current (%) | Power loss (W) | Relative Power loss (%) |
|---|---|---|---|
| 90 | 100 | **75.6** | **2.6** |
| 50 | 100 | **69.4** | **2.4** |
| 0 | 100 | **63.4** | **2.2** |
| 90 | 50 | **57** | **2** |
| 50 | 50 | **54.3** | **1.9** |
| 0 | 50 | **51.4** | **1.8** |
| 50 | 25 | **47.9** | **1.7** |
| 0 | 25 | **46.5** | **1.6** |

Delta Electronics Inc. All Right Reserved

Send Quote Requests to info@automatedpt.com
Call +1(800)985-6929 To Order or Order Online At Deltaacdrives.com

# Energy Efficiency Report

Drive efficiency according to IEC 61800-9-2

**Efficiency level:** IE2

| | |
|---|---|
| Series: | **MS300** |
| Model name: | **VFD7A5MS21EFSAA** |

| | | |
|---|---|---|
| Apparent output power | **2.9** | kVA |
| Rated output current | **7.5** | A |
| Rated power output | **1.5** | kW |
| Rated supply voltage | **200-240** | V |
| Rated supply frequency | **50/60** | Hz |
| Standby loss | **8** | W |
| Maximum operating temperature | **40** | °C |

| Frequency (%) | Current (%) | Power loss (W) | Relative Power loss (%) |
|---|---|---|---|
| 90 | 100 | **75.6** | **2.6** |
| 50 | 100 | **69.4** | **2.4** |
| 0 | 100 | **63.4** | **2.2** |
| 90 | 50 | **57** | **2** |
| 50 | 50 | **54.3** | **1.9** |
| 0 | 50 | **51.4** | **1.8** |
| 50 | 25 | **47.9** | **1.7** |
| 0 | 25 | **46.5** | **1.6** |

Delta Electronics Inc. All Right Reserved

# Energy Efficiency Report

Drive efficiency according to IEC 61800-9-2

**Efficiency level:** IE2

| | |
|---|---|
| Series: | **MS300** |
| Model name: | **VFD11AMS21ANSAA** |

| | | |
|---|---|---|
| Apparent output power | **4.2** | kVA |
| Rated output current | **11** | A |
| Rated power output | **2.2** | kW |
| Rated supply voltage | **200-240** | V |
| Rated supply frequency | **50/60** | Hz |
| Standby loss | **8** | W |
| Maximum operating temperature | **50** | °C |

| Frequency (%) | Current (%) | Power loss (W) | Relative Power loss (%) |
|---|---|---|---|
| 90 | 100 | **102.1** | **2.4** |
| 50 | 100 | **93.7** | **2.2** |
| 0 | 100 | **84.9** | **2** |
| 90 | 50 | **74.7** | **1.8** |
| 50 | 50 | **70.9** | **1.7** |
| 0 | 50 | **66.6** | **1.6** |
| 50 | 25 | **61.3** | **1.5** |
| 0 | 25 | **59.2** | **1.4** |

Delta Electronics Inc. All Right Reserved

# Energy Efficiency Report

Drive efficiency according to IEC 61800-9-2

**Efficiency level:** IE2

| | |
|---|---|
| Series: | **MS300** |
| Model name: | **VFD11AMS21ENSAA** |

| | | |
|---|---|---|
| Apparent output power | **4.2** | kVA |
| Rated output current | **11** | A |
| Rated power output | **2.2** | kW |
| Rated supply voltage | **200-240** | V |
| Rated supply frequency | **50/60** | Hz |
| Standby loss | **8** | W |
| Maximum operating temperature | **40** | °C |

| Frequency (%) | Current (%) | Power loss (W) | Relative Power loss (%) |
|---|---|---|---|
| 90 | 100 | **102.1** | **2.4** |
| 50 | 100 | **93.7** | **2.2** |
| 0 | 100 | **84.9** | **2** |
| 90 | 50 | **74.7** | **1.8** |
| 50 | 50 | **70.9** | **1.7** |
| 0 | 50 | **66.6** | **1.6** |
| 50 | 25 | **61.3** | **1.5** |
| 0 | 25 | **59.2** | **1.4** |

Delta Electronics Inc. All Right Reserved

# Energy Efficiency Report

Drive efficiency according to IEC 61800-9-2

**Efficiency level:** IE2

| | |
|---|---|
| Series: | **MS300** |
| Model name: | **VFD11AMS21AFSAA** |

| | | |
|---|---|---|
| Apparent output power | **4.2** | kVA |
| Rated output current | **11** | A |
| Rated power output | **2.2** | kW |
| Rated supply voltage | **200-240** | V |
| Rated supply frequency | **50/60** | Hz |
| Standby loss | **8** | W |
| Maximum operating temperature | **50** | °C |

| Frequency (%) | Current (%) | Power loss (W) | Relative Power loss (%) |
|---|---|---|---|
| 90 | 100 | **105.1** | **2.5** |
| 50 | 100 | **94.6** | **2.3** |
| 0 | 100 | **84.9** | **2** |
| 90 | 50 | **75.6** | **1.8** |
| 50 | 50 | **71.2** | **1.7** |
| 0 | 50 | **66.6** | **1.6** |
| 50 | 25 | **61.4** | **1.5** |
| 0 | 25 | **59.2** | **1.4** |

Delta Electronics Inc. All Right Reserved

# Energy Efficiency Report

Drive efficiency according to IEC 61800-9-2

**Efficiency level:** IE2

| | |
|---|---|
| Series: | **MS300** |
| Model name: | **VFD11AMS21EFSAA** |

| | | |
|---|---|---|
| Apparent output power | **4.2** | kVA |
| Rated output current | **11** | A |
| Rated power output | **2.2** | kW |
| Rated supply voltage | **200-240** | V |
| Rated supply frequency | **50/60** | Hz |
| Standby loss | **8** | W |
| Maximum operating temperature | **40** | °C |

| Frequency (%) | Current (%) | Power loss (W) | Relative Power loss (%) |
|---|---|---|---|
| 90 | 100 | **105.1** | **2.5** |
| 50 | 100 | **94.6** | **2.3** |
| 0 | 100 | **84.9** | **2** |
| 90 | 50 | **75.6** | **1.8** |
| 50 | 50 | **71.2** | **1.7** |
| 0 | 50 | **66.6** | **1.6** |
| 50 | 25 | **61.4** | **1.5** |
| 0 | 25 | **59.2** | **1.4** |

Delta Electronics Inc. All Right Reserved

# Energy Efficiency Report

Drive efficiency according to IEC 61800-9-2

**Efficiency level:** IE2

| | |
|---|---|
| Series: | **MS300** |
| Model name: | **VFD1A6MS23ANSAA** |

| | | |
|---|---|---|
| Apparent output power | **0.6** | kVA |
| Rated output current | **1.6** | A |
| Rated power output | **0.2** | kW |
| Rated supply voltage | **200-240** | V |
| Rated supply frequency | **50/60** | Hz |
| Standby loss | **5** | W |
| Maximum operating temperature | **50** | °C |

| Frequency (%) | Current (%) | Power loss (W) | Relative Power loss (%) |
|---|---|---|---|
| 90 | 100 | **30.9** | **5.2** |
| 50 | 100 | **30** | **5** |
| 0 | 100 | **29** | **4.8** |
| 90 | 50 | **28.7** | **4.8** |
| 50 | 50 | **28.2** | **4.7** |
| 0 | 50 | **27.6** | **4.6** |
| 50 | 25 | **27.8** | **4.6** |
| 0 | 25 | **27.4** | **4.6** |

Delta Electronics Inc. All Right Reserved

# Energy Efficiency Report

Drive efficiency according to IEC 61800-9-2

**Efficiency level:** IE2

| | |
|---|---|
| Series: | **MS300** |
| Model name: | **VFD1A6MS23ENSAA** |

| | | |
|---|---|---|
| Apparent output power | **0.6** | kVA |
| Rated output current | **1.6** | A |
| Rated power output | **0.2** | kW |
| Rated supply voltage | **200-240** | V |
| Rated supply frequency | **50/60** | Hz |
| Standby loss | **5** | W |
| Maximum operating temperature | **40** | °C |

| Frequency (%) | Current (%) | Power loss (W) | Relative Power loss (%) |
|---|---|---|---|
| 90 | 100 | **30.9** | **5.2** |
| 50 | 100 | **30** | **5** |
| 0 | 100 | **29** | **4.8** |
| 90 | 50 | **28.7** | **4.8** |
| 50 | 50 | **28.2** | **4.7** |
| 0 | 50 | **27.6** | **4.6** |
| 50 | 25 | **27.8** | **4.6** |
| 0 | 25 | **27.4** | **4.6** |

Delta Electronics Inc. All Right Reserved

# Energy Efficiency Report

Drive efficiency according to IEC 61800-9-2

**Efficiency level:** IE2

| | |
|---|---|
| Series: | **MS300** |
| Model name: | **VFD2A8MS23ANSAA** |

| | | |
|---|---|---|
| Apparent output power | **1.1** | kVA |
| Rated output current | **2.8** | A |
| Rated power output | **0.4** | kW |
| Rated supply voltage | **200-240** | V |
| Rated supply frequency | **50/60** | Hz |
| Standby loss | **5** | W |
| Maximum operating temperature | **50** | °C |

| Frequency (%) | Current (%) | Power loss (W) | Relative Power loss (%) |
|---|---|---|---|
| 90 | 100 | **36.8** | **3.4** |
| 50 | 100 | **34.9** | **3.2** |
| 0 | 100 | **32.8** | **3** |
| 90 | 50 | **32.6** | **3** |
| 50 | 50 | **31.6** | **2.9** |
| 0 | 50 | **30.4** | **2.8** |
| 50 | 25 | **31** | **2.8** |
| 0 | 25 | **30.2** | **2.8** |

Delta Electronics Inc. All Right Reserved

# Energy Efficiency Report

Drive efficiency according to IEC 61800-9-2

**Efficiency level:** IE2

| | |
|---|---|
| Series: | **MS300** |
| Model name: | **VFD2A8MS23ENSAA** |

| | | |
|---|---|---|
| Apparent output power | **1.1** | kVA |
| Rated output current | **2.8** | A |
| Rated power output | **0.4** | kW |
| Rated supply voltage | **200-240** | V |
| Rated supply frequency | **50/60** | Hz |
| Standby loss | **5** | W |
| Maximum operating temperature | **40** | °C |

| Frequency (%) | Current (%) | Power loss (W) | Relative Power loss (%) |
|---|---|---|---|
| 90 | 100 | **36.8** | **3.4** |
| 50 | 100 | **34.9** | **3.2** |
| 0 | 100 | **32.8** | **3** |
| 90 | 50 | **32.6** | **3** |
| 50 | 50 | **31.6** | **2.9** |
| 0 | 50 | **30.4** | **2.8** |
| 50 | 25 | **31** | **2.8** |
| 0 | 25 | **30.2** | **2.8** |

Delta Electronics Inc. All Right Reserved

# Energy Efficiency Report

Drive efficiency according to IEC 61800-9-2

**Efficiency level:** IE2

| | |
|---|---|
| Series: | **MS300** |
| Model name: | **VFD4A8MS23ANSAA** |

| | | |
|---|---|---|
| Apparent output power | **1.8** | kVA |
| Rated output current | **4.8** | A |
| Rated power output | **0.75** | kW |
| Rated supply voltage | **200-240** | V |
| Rated supply frequency | **50/60** | Hz |
| Standby loss | **5** | W |
| Maximum operating temperature | **50** | °C |

| Frequency (%) | Current (%) | Power loss (W) | Relative Power loss (%) |
|---|---|---|---|
| 90 | 100 | **51.9** | **2.9** |
| 50 | 100 | **48** | **2.7** |
| 0 | 100 | **43.8** | **2.4** |
| 90 | 50 | **40.9** | **2.3** |
| 50 | 50 | **39** | **2.2** |
| 0 | 50 | **36.8** | **2.1** |
| 50 | 25 | **35** | **2** |
| 0 | 25 | **33.9** | **1.9** |

Delta Electronics Inc. All Right Reserved

# Energy Efficiency Report

Drive efficiency according to IEC 61800-9-2

**Efficiency level:** IE2

| | |
|---|---|
| Series: | **MS300** |
| Model name: | **VFD4A8MS23ENSAA** |

| | | |
|---|---|---|
| Apparent output power | **1.8** | kVA |
| Rated output current | **4.8** | A |
| Rated power output | **0.75** | kW |
| Rated supply voltage | **200-240** | V |
| Rated supply frequency | **50/60** | Hz |
| Standby loss | **5** | W |
| Maximum operating temperature | **40** | °C |

| Frequency (%) | Current (%) | Power loss (W) | Relative Power loss (%) |
|---|---|---|---|
| 90 | 100 | **51.9** | **2.9** |
| 50 | 100 | **48** | **2.7** |
| 0 | 100 | **43.8** | **2.4** |
| 90 | 50 | **40.9** | **2.3** |
| 50 | 50 | **39** | **2.2** |
| 0 | 50 | **36.8** | **2.1** |
| 50 | 25 | **35** | **2** |
| 0 | 25 | **33.9** | **1.9** |

Delta Electronics Inc. All Right Reserved

# Energy Efficiency Report

Drive efficiency according to IEC 61800-9-2

**Efficiency level:** IE2

| | |
|---|---|
| Series: | **MS300** |
| Model name: | **VFD7A5MS23ANSAA** |

| | | |
|---|---|---|
| Apparent output power | **2.9** | kVA |
| Rated output current | **7.5** | A |
| Rated power output | **1.5** | kW |
| Rated supply voltage | **200-240** | V |
| Rated supply frequency | **50/60** | Hz |
| Standby loss | **5** | W |
| Maximum operating temperature | **50** | °C |

| Frequency (%) | Current (%) | Power loss (W) | Relative Power loss (%) |
|---|---|---|---|
| 90 | 100 | **72.1** | **2.5** |
| 50 | 100 | **66.4** | **2.3** |
| 0 | 100 | **60.3** | **2.1** |
| 90 | 50 | **55.5** | **1.9** |
| 50 | 50 | **52.8** | **1.8** |
| 0 | 50 | **49.7** | **1.7** |
| 50 | 25 | **46.8** | **1.6** |
| 0 | 25 | **45.2** | **1.6** |

Delta Electronics Inc. All Right Reserved

# Energy Efficiency Report

Drive efficiency according to IEC 61800-9-2

**Efficiency level:** IE2

| | |
|---|---|
| Series: | **MS300** |
| Model name: | **VFD7A5MS23ENSAA** |

| | | |
|---|---|---|
| Apparent output power | **2.9** | kVA |
| Rated output current | **7.5** | A |
| Rated power output | **1.5** | kW |
| Rated supply voltage | **200-240** | V |
| Rated supply frequency | **50/60** | Hz |
| Standby loss | **5** | W |
| Maximum operating temperature | **40** | °C |

| Frequency (%) | Current (%) | Power loss (W) | Relative Power loss (%) |
|---|---|---|---|
| 90 | 100 | **72.1** | **2.5** |
| 50 | 100 | **66.4** | **2.3** |
| 0 | 100 | **60.3** | **2.1** |
| 90 | 50 | **55.5** | **1.9** |
| 50 | 50 | **52.8** | **1.8** |
| 0 | 50 | **49.7** | **1.7** |
| 50 | 25 | **46.8** | **1.6** |
| 0 | 25 | **45.2** | **1.6** |

Delta Electronics Inc. All Right Reserved

# Energy Efficiency Report

Drive efficiency according to IEC 61800-9-2

**Efficiency level:** IE2

| | |
|---|---|
| Series: | **MS300** |
| Model name: | **VFD11AMS23ANSAA** |

| | | |
|---|---|---|
| Apparent output power | **4.2** | kVA |
| Rated output current | **11** | A |
| Rated power output | **2.2** | kW |
| Rated supply voltage | **200-240** | V |
| Rated supply frequency | **50/60** | Hz |
| Standby loss | **8** | W |
| Maximum operating temperature | **50** | °C |

| Frequency (%) | Current (%) | Power loss (W) | Relative Power loss (%) |
|---|---|---|---|
| 90 | 100 | **103.3** | **2.5** |
| 50 | 100 | **94.9** | **2.3** |
| 0 | 100 | **86.2** | **2.1** |
| 90 | 50 | **75.4** | **1.8** |
| 50 | 50 | **71.5** | **1.7** |
| 0 | 50 | **67.3** | **1.6** |
| 50 | 25 | **61.7** | **1.5** |
| 0 | 25 | **59.6** | **1.4** |

Delta Electronics Inc. All Right Reserved

# Energy Efficiency Report

Drive efficiency according to IEC 61800-9-2

**Efficiency level:** IE2

| | |
|---|---|
| Series: | **MS300** |
| Model name: | **VFD11AMS23ENSAA** |

| | | |
|---|---|---|
| Apparent output power | **4.2** | kVA |
| Rated output current | **11** | A |
| Rated power output | **2.2** | kW |
| Rated supply voltage | **200-240** | V |
| Rated supply frequency | **50/60** | Hz |
| Standby loss | **8** | W |
| Maximum operating temperature | **40** | °C |

| Frequency (%) | Current (%) | Power loss (W) | Relative Power loss (%) |
|---|---|---|---|
| 90 | 100 | **103.3** | **2.5** |
| 50 | 100 | **94.9** | **2.3** |
| 0 | 100 | **86.2** | **2.1** |
| 90 | 50 | **75.4** | **1.8** |
| 50 | 50 | **71.5** | **1.7** |
| 0 | 50 | **67.3** | **1.6** |
| 50 | 25 | **61.7** | **1.5** |
| 0 | 25 | **59.6** | **1.4** |

Delta Electronics Inc. All Right Reserved

# Energy Efficiency Report

Drive efficiency according to IEC 61800-9-2

**Efficiency level:** IE2

| | |
|---|---|
| Series: | **MS300** |
| Model name: | **VFD17AMS23ANSAA** |

| | | |
|---|---|---|
| Apparent output power | **6.5** | kVA |
| Rated output current | **17** | A |
| Rated power output | **3.7** | kW |
| Rated supply voltage | **200-240** | V |
| Rated supply frequency | **50/60** | Hz |
| Standby loss | **8** | W |
| Maximum operating temperature | **50** | °C |

| Frequency (%) | Current (%) | Power loss (W) | Relative Power loss (%) |
|---|---|---|---|
| 90 | 100 | **144.5** | **2.2** |
| 50 | 100 | **132.1** | **2** |
| 0 | 100 | **119.2** | **1.8** |
| 90 | 50 | **104.6** | **1.6** |
| 50 | 50 | **98.7** | **1.5** |
| 0 | 50 | **92.2** | **1.4** |
| 50 | 25 | **84.2** | **1.3** |
| 0 | 25 | **80.9** | **1.3** |

Delta Electronics Inc. All Right Reserved

# Energy Efficiency Report

Drive efficiency according to IEC 61800-9-2

**Efficiency level:** IE2

| | |
|---|---|
| Series: | **MS300** |
| Model name: | **VFD17AMS23ENSAA** |

| | | |
|---|---|---|
| Apparent output power | **6.5** | kVA |
| Rated output current | **17** | A |
| Rated power output | **3.7** | kW |
| Rated supply voltage | **200-240** | V |
| Rated supply frequency | **50/60** | Hz |
| Standby loss | **8** | W |
| Maximum operating temperature | **40** | °C |

| Frequency (%) | Current (%) | Power loss (W) | Relative Power loss (%) |
|---|---|---|---|
| 90 | 100 | **144.5** | **2.2** |
| 50 | 100 | **132.1** | **2** |
| 0 | 100 | **119.2** | **1.8** |
| 90 | 50 | **104.6** | **1.6** |
| 50 | 50 | **98.7** | **1.5** |
| 0 | 50 | **92.2** | **1.4** |
| 50 | 25 | **84.2** | **1.3** |
| 0 | 25 | **80.9** | **1.3** |

Delta Electronics Inc. All Right Reserved

# Energy Efficiency Report

Drive efficiency according to IEC 61800-9-2

**Efficiency level:** IE2

| | |
|---|---|
| Series: | **MS300** |
| Model name: | **VFD25AMS23ANSAA** |

| | | |
|---|---|---|
| Apparent output power | **9.5** | kVA |
| Rated output current | **25** | A |
| Rated power output | **5.5** | kW |
| Rated supply voltage | **200-240** | V |
| Rated supply frequency | **50/60** | Hz |
| Standby loss | **8** | W |
| Maximum operating temperature | **50** | °C |

| Frequency (%) | Current (%) | Power loss (W) | Relative Power loss (%) |
|---|---|---|---|
| 90 | 100 | **221.7** | **2.3** |
| 50 | 100 | **198.8** | **2.1** |
| 0 | 100 | **176.9** | **1.9** |
| 90 | 50 | **132.2** | **1.4** |
| 50 | 50 | **122.9** | **1.3** |
| 0 | 50 | **113** | **1.2** |
| 50 | 25 | **97** | **1** |
| 0 | 25 | **92.1** | **1** |

Delta Electronics Inc. All Right Reserved

# Energy Efficiency Report

Drive efficiency according to IEC 61800-9-2

**Efficiency level:** IE2

| | |
|---|---|
| Series: | **MS300** |
| Model name: | **VFD25AMS23ENSAA** |

| | | |
|---|---|---|
| Apparent output power | **9.5** | kVA |
| Rated output current | **25** | A |
| Rated power output | **5.5** | kW |
| Rated supply voltage | **200-240** | V |
| Rated supply frequency | **50/60** | Hz |
| Standby loss | **8** | W |
| Maximum operating temperature | **40** | °C |

| Frequency (%) | Current (%) | Power loss (W) | Relative Power loss (%) |
|---|---|---|---|
| 90 | 100 | **221.7** | **2.3** |
| 50 | 100 | **198.8** | **2.1** |
| 0 | 100 | **176.9** | **1.9** |
| 90 | 50 | **132.2** | **1.4** |
| 50 | 50 | **122.9** | **1.3** |
| 0 | 50 | **113** | **1.2** |
| 50 | 25 | **97** | **1** |
| 0 | 25 | **92.1** | **1** |

Delta Electronics Inc. All Right Reserved

# Energy Efficiency Report

Drive efficiency according to IEC 61800-9-2

**Efficiency level:** IE2

| | |
|---|---|
| Series: | **MS300** |
| Model name: | **VFD33AMS23ANSAA** |

| | | |
|---|---|---|
| Apparent output power | **12.6** | kVA |
| Rated output current | **33** | A |
| Rated power output | **7.5** | kW |
| Rated supply voltage | **200-240** | V |
| Rated supply frequency | **50/60** | Hz |
| Standby loss | **11** | W |
| Maximum operating temperature | **50** | °C |

| Frequency (%) | Current (%) | Power loss (W) | Relative Power loss (%) |
|---|---|---|---|
| 90 | 100 | **317.8** | **2.5** |
| 50 | 100 | **280.5** | **2.2** |
| 0 | 100 | **246** | **2** |
| 90 | 50 | **183.3** | **1.5** |
| 50 | 50 | **169.2** | **1.3** |
| 0 | 50 | **154.5** | **1.2** |
| 50 | 25 | **131.8** | **1.1** |
| 0 | 25 | **124.8** | **1** |

Delta Electronics Inc. All Right Reserved

# Energy Efficiency Report

Drive efficiency according to IEC 61800-9-2

**Efficiency level:** IE2

| | |
|---|---|
| Series: | **MS300** |
| Model name: | **VFD33AMS23ENSAA** |

| | | |
|---|---|---|
| Apparent output power | **12.6** | kVA |
| Rated output current | **33** | A |
| Rated power output | **7.5** | kW |
| Rated supply voltage | **200-240** | V |
| Rated supply frequency | **50/60** | Hz |
| Standby loss | **11** | W |
| Maximum operating temperature | **40** | °C |

| Frequency (%) | Current (%) | Power loss (W) | Relative Power loss (%) |
|---|---|---|---|
| 90 | 100 | **317.8** | **2.5** |
| 50 | 100 | **280.5** | **2.2** |
| 0 | 100 | **246** | **2** |
| 90 | 50 | **183.3** | **1.5** |
| 50 | 50 | **169.2** | **1.3** |
| 0 | 50 | **154.5** | **1.2** |
| 50 | 25 | **131.8** | **1.1** |
| 0 | 25 | **124.8** | **1** |

Delta Electronics Inc. All Right Reserved

# Energy Efficiency Report

Drive efficiency according to IEC 61800-9-2

**Efficiency level:** IE2

| | |
|---|---|
| Series: | **MS300** |
| Model name: | **VFD49AMS23ANSAA** |

| | | |
|---|---|---|
| Apparent output power | **18.7** | kVA |
| Rated output current | **49** | A |
| Rated power output | **11** | kW |
| Rated supply voltage | **200-240** | V |
| Rated supply frequency | **50/60** | Hz |
| Standby loss | **11** | W |
| Maximum operating temperature | **50** | °C |

| Frequency (%) | Current (%) | Power loss (W) | Relative Power loss (%) |
|---|---|---|---|
| 90 | 100 | **416.2** | **2.2** |
| 50 | 100 | **361.1** | **1.9** |
| 0 | 100 | **304.2** | **1.6** |
| 90 | 50 | **232.6** | **1.2** |
| 50 | 50 | **209.6** | **1.1** |
| 0 | 50 | **183.9** | **1** |
| 50 | 25 | **157.4** | **0.8** |
| 0 | 25 | **144.8** | **0.8** |

Delta Electronics Inc. All Right Reserved

# Energy Efficiency Report

Drive efficiency according to IEC 61800-9-2

**Efficiency level:** IE2

| | |
|---|---|
| Series: | **MS300** |
| Model name: | **VFD49AMS23ENSAA** |

| | | |
|---|---|---|
| Apparent output power | **18.7** | kVA |
| Rated output current | **49** | A |
| Rated power output | **11** | kW |
| Rated supply voltage | **200-240** | V |
| Rated supply frequency | **50/60** | Hz |
| Standby loss | **11** | W |
| Maximum operating temperature | **40** | °C |

| Frequency (%) | Current (%) | Power loss (W) | Relative Power loss (%) |
|---|---|---|---|
| 90 | 100 | **416.2** | **2.2** |
| 50 | 100 | **361.1** | **1.9** |
| 0 | 100 | **304.2** | **1.6** |
| 90 | 50 | **232.6** | **1.2** |
| 50 | 50 | **209.6** | **1.1** |
| 0 | 50 | **183.9** | **1** |
| 50 | 25 | **157.4** | **0.8** |
| 0 | 25 | **144.8** | **0.8** |

Delta Electronics Inc. All Right Reserved

# Energy Efficiency Report

Drive efficiency according to IEC 61800-9-2

**Efficiency level:** IE2

| | |
|---|---|
| Series: | **MS300** |
| Model name: | **VFD65AMS23ANSAA** |

| | | |
|---|---|---|
| Apparent output power | **24.8** | kVA |
| Rated output current | **65** | A |
| Rated power output | **15** | kW |
| Rated supply voltage | **200-240** | V |
| Rated supply frequency | **50/60** | Hz |
| Standby loss | **11** | W |
| Maximum operating temperature | **50** | °C |

| Frequency (%) | Current (%) | Power loss (W) | Relative Power loss (%) |
|---|---|---|---|
| 90 | 100 | **508.4** | **2.1** |
| 50 | 100 | **447.2** | **1.8** |
| 0 | 100 | **386.9** | **1.6** |
| 90 | 50 | **276.7** | **1.1** |
| 50 | 50 | **251.9** | **1** |
| 0 | 50 | **225** | **0.9** |
| 50 | 25 | **186.4** | **0.8** |
| 0 | 25 | **173.2** | **0.7** |

Delta Electronics Inc. All Right Reserved

# Energy Efficiency Report

Drive efficiency according to IEC 61800-9-2

**Efficiency level:** IE2

| | |
|---|---|
| Series: | **MS300** |
| Model name: | **VFD65AMS23ENSAA** |

| | | |
|---|---|---|
| Apparent output power | **24.8** | kVA |
| Rated output current | **65** | A |
| Rated power output | **15** | kW |
| Rated supply voltage | **200-240** | V |
| Rated supply frequency | **50/60** | Hz |
| Standby loss | **11** | W |
| Maximum operating temperature | **40** | °C |

| Frequency (%) | Current (%) | Power loss (W) | Relative Power loss (%) |
|---|---|---|---|
| 90 | 100 | **508.4** | **2.1** |
| 50 | 100 | **447.2** | **1.8** |
| 0 | 100 | **386.9** | **1.6** |
| 90 | 50 | **276.7** | **1.1** |
| 50 | 50 | **251.9** | **1** |
| 0 | 50 | **225** | **0.9** |
| 50 | 25 | **186.4** | **0.8** |
| 0 | 25 | **173.2** | **0.7** |

Delta Electronics Inc. All Right Reserved

# Energy Efficiency Report

Drive efficiency according to IEC 61800-9-2

**Efficiency level:** IE2

| | |
|---|---|
| Series: | **MS300** |
| Model name: | **VFD1A5MS43ANSAA** |

| | | |
|---|---|---|
| Apparent output power | **1.1** | kVA |
| Rated output current | **1.5** | A |
| Rated power output | **0.4** | kW |
| Rated supply voltage | **380-480** | V |
| Rated supply frequency | **50/60** | Hz |
| Standby loss | **5** | W |
| Maximum operating temperature | **50** | °C |

| Frequency (%) | Current (%) | Power loss (W) | Relative Power loss (%) |
|---|---|---|---|
| 90 | 100 | **44** | **4** |
| 50 | 100 | **43.1** | **3.9** |
| 0 | 100 | **42.1** | **3.8** |
| 90 | 50 | **41** | **3.7** |
| 50 | 50 | **40.5** | **3.7** |
| 0 | 50 | **40** | **3.6** |
| 50 | 25 | **40.1** | **3.6** |
| 0 | 25 | **39.8** | **3.6** |

Delta Electronics Inc. All Right Reserved

# Energy Efficiency Report

Drive efficiency according to IEC 61800-9-2

**Efficiency level:** IE2

| | |
|---|---|
| Series: | **MS300** |
| Model name: | **VFD1A5MS43ENSAA** |

| | | |
|---|---|---|
| Apparent output power | **1.1** | kVA |
| Rated output current | **1.5** | A |
| Rated power output | **0.4** | kW |
| Rated supply voltage | **380-480** | V |
| Rated supply frequency | **50/60** | Hz |
| Standby loss | **5** | W |
| Maximum operating temperature | **40** | °C |

| Frequency (%) | Current (%) | Power loss (W) | Relative Power loss (%) |
|---|---|---|---|
| 90 | 100 | **44** | **4** |
| 50 | 100 | **43.1** | **3.9** |
| 0 | 100 | **42.1** | **3.8** |
| 90 | 50 | **41** | **3.7** |
| 50 | 50 | **40.5** | **3.7** |
| 0 | 50 | **40** | **3.6** |
| 50 | 25 | **40.1** | **3.6** |
| 0 | 25 | **39.8** | **3.6** |

Delta Electronics Inc. All Right Reserved

# Energy Efficiency Report

Drive efficiency according to IEC 61800-9-2

**Efficiency level:** IE2

| | |
|---|---|
| Series: | **MS300** |
| Model name: | **VFD1A5MS43AFSAA** |

| | | |
|---|---|---|
| Apparent output power | **1.1** | kVA |
| Rated output current | **1.5** | A |
| Rated power output | **0.4** | kW |
| Rated supply voltage | **380-480** | V |
| Rated supply frequency | **50/60** | Hz |
| Standby loss | **5** | W |
| Maximum operating temperature | **50** | °C |

| Frequency (%) | Current (%) | Power loss (W) | Relative Power loss (%) |
|---|---|---|---|
| 90 | 100 | **45.6** | **4.2** |
| 50 | 100 | **44.6** | **4.1** |
| 0 | 100 | **43.5** | **4** |
| 90 | 50 | **42.5** | **3.9** |
| 50 | 50 | **42** | **3.8** |
| 0 | 50 | **41.4** | **3.8** |
| 50 | 25 | **41.5** | **3.8** |
| 0 | 25 | **41.2** | **3.8** |

Delta Electronics Inc. All Right Reserved

# Energy Efficiency Report

Drive efficiency according to IEC 61800-9-2

**Efficiency level:** IE2

| | |
|---|---|
| Series: | **MS300** |
| Model name: | **VFD1A5MS43EFSAA** |

| | | |
|---|---|---|
| Apparent output power | **1.1** | kVA |
| Rated output current | **1.5** | A |
| Rated power output | **0.4** | kW |
| Rated supply voltage | **380-480** | V |
| Rated supply frequency | **50/60** | Hz |
| Standby loss | **5** | W |
| Maximum operating temperature | **40** | °C |

| Frequency (%) | Current (%) | Power loss (W) | Relative Power loss (%) |
|---|---|---|---|
| 90 | 100 | **45.6** | **4.2** |
| 50 | 100 | **44.6** | **4.1** |
| 0 | 100 | **43.5** | **4** |
| 90 | 50 | **42.5** | **3.9** |
| 50 | 50 | **42** | **3.8** |
| 0 | 50 | **41.4** | **3.8** |
| 50 | 25 | **41.5** | **3.8** |
| 0 | 25 | **41.2** | **3.8** |

Delta Electronics Inc. All Right Reserved

# Energy Efficiency Report

Drive efficiency according to IEC 61800-9-2

**Efficiency level:** IE2

| | |
|---|---|
| Series: | **MS300** |
| Model name: | **VFD2A7MS43ANSAA** |

| | | |
|---|---|---|
| Apparent output power | **2.1** | kVA |
| Rated output current | **2.7** | A |
| Rated power output | **0.75** | kW |
| Rated supply voltage | **380-480** | V |
| Rated supply frequency | **50/60** | Hz |
| Standby loss | **5** | W |
| Maximum operating temperature | **50** | °C |

| Frequency (%) | Current (%) | Power loss (W) | Relative Power loss (%) |
|---|---|---|---|
| 90 | 100 | **55.5** | **2.6** |
| 50 | 100 | **53.6** | **2.6** |
| 0 | 100 | **51.5** | **2.5** |
| 90 | 50 | **47.2** | **2.3** |
| 50 | 50 | **46.3** | **2.2** |
| 0 | 50 | **45.2** | **2.2** |
| 50 | 25 | **43.1** | **2.1** |
| 0 | 25 | **42.6** | **2** |

Delta Electronics Inc. All Right Reserved

# Energy Efficiency Report

Drive efficiency according to IEC 61800-9-2

**Efficiency level:** IE2

| | |
|---|---|
| Series: | **MS300** |
| Model name: | **VFD2A7MS43ENSAA** |

| | | |
|---|---|---|
| Apparent output power | **2.1** | kVA |
| Rated output current | **2.7** | A |
| Rated power output | **0.75** | kW |
| Rated supply voltage | **380-480** | V |
| Rated supply frequency | **50/60** | Hz |
| Standby loss | **5** | W |
| Maximum operating temperature | **40** | °C |

| Frequency (%) | Current (%) | Power loss (W) | Relative Power loss (%) |
|---|---|---|---|
| 90 | 100 | **55.5** | **2.6** |
| 50 | 100 | **53.6** | **2.6** |
| 0 | 100 | **51.5** | **2.5** |
| 90 | 50 | **47.2** | **2.3** |
| 50 | 50 | **46.3** | **2.2** |
| 0 | 50 | **45.2** | **2.2** |
| 50 | 25 | **43.1** | **2.1** |
| 0 | 25 | **42.6** | **2** |

Delta Electronics Inc. All Right Reserved

# Energy Efficiency Report

Drive efficiency according to IEC 61800-9-2

**Efficiency level:** IE2

| | |
|---|---|
| Series: | **MS300** |
| Model name: | **VFD2A7MS43AFSAA** |

| | | |
|---|---|---|
| Apparent output power | **2.1** | kVA |
| Rated output current | **2.7** | A |
| Rated power output | **0.75** | kW |
| Rated supply voltage | **380-480** | V |
| Rated supply frequency | **50/60** | Hz |
| Standby loss | **5** | W |
| Maximum operating temperature | **50** | °C |

| Frequency (%) | Current (%) | Power loss (W) | Relative Power loss (%) |
|---|---|---|---|
| 90 | 100 | **57.6** | **2.7** |
| 50 | 100 | **55.2** | **2.6** |
| 0 | 100 | **52.9** | **2.5** |
| 90 | 50 | **48.8** | **2.3** |
| 50 | 50 | **47.8** | **2.3** |
| 0 | 50 | **46.6** | **2.2** |
| 50 | 25 | **44.5** | **2.1** |
| 0 | 25 | **44** | **2.1** |

Delta Electronics Inc. All Right Reserved

# Energy Efficiency Report

Drive efficiency according to IEC 61800-9-2

**Efficiency level:** IE2

| | |
|---|---|
| Series: | **MS300** |
| Model name: | **VFD2A7MS43EFSAA** |

| | | |
|---|---|---|
| Apparent output power | **2.1** | kVA |
| Rated output current | **2.7** | A |
| Rated power output | **0.75** | kW |
| Rated supply voltage | **380-480** | V |
| Rated supply frequency | **50/60** | Hz |
| Standby loss | **5** | W |
| Maximum operating temperature | **40** | °C |

| Frequency (%) | Current (%) | Power loss (W) | Relative Power loss (%) |
|---|---|---|---|
| 90 | 100 | **57.6** | **2.7** |
| 50 | 100 | **55.2** | **2.6** |
| 0 | 100 | **52.9** | **2.5** |
| 90 | 50 | **48.8** | **2.3** |
| 50 | 50 | **47.8** | **2.3** |
| 0 | 50 | **46.6** | **2.2** |
| 50 | 25 | **44.5** | **2.1** |
| 0 | 25 | **44** | **2.1** |

Delta Electronics Inc. All Right Reserved

# Energy Efficiency Report

Drive efficiency according to IEC 61800-9-2

**Efficiency level:** IE2

| | |
|---|---|
| Series: | **MS300** |
| Model name: | **VFD4A2MS43ANSAA** |

| | | |
|---|---|---|
| Apparent output power | **3.2** | kVA |
| Rated output current | **4.2** | A |
| Rated power output | **1.5** | kW |
| Rated supply voltage | **380-480** | V |
| Rated supply frequency | **50/60** | Hz |
| Standby loss | **5** | W |
| Maximum operating temperature | **50** | °C |

| Frequency (%) | Current (%) | Power loss (W) | Relative Power loss (%) |
|---|---|---|---|
| 90 | 100 | **73.8** | **2.3** |
| 50 | 100 | **70.4** | **2.2** |
| 0 | 100 | **66.8** | **2.1** |
| 90 | 50 | **59.4** | **1.9** |
| 50 | 50 | **57.8** | **1.8** |
| 0 | 50 | **56** | **1.8** |
| 50 | 25 | **52.4** | **1.6** |
| 0 | 25 | **51.5** | **1.6** |

Delta Electronics Inc. All Right Reserved

# Energy Efficiency Report

Drive efficiency according to IEC 61800-9-2

**Efficiency level:** IE2

| | |
|---|---|
| Series: | **MS300** |
| Model name: | **VFD4A2MS43ENSAA** |

| | | |
|---|---|---|
| Apparent output power | **3.2** | kVA |
| Rated output current | **4.2** | A |
| Rated power output | **1.5** | kW |
| Rated supply voltage | **380-480** | V |
| Rated supply frequency | **50/60** | Hz |
| Standby loss | **5** | W |
| Maximum operating temperature | **40** | °C |

| Frequency (%) | Current (%) | Power loss (W) | Relative Power loss (%) |
|---|---|---|---|
| 90 | 100 | **73.8** | **2.3** |
| 50 | 100 | **70.4** | **2.2** |
| 0 | 100 | **66.8** | **2.1** |
| 90 | 50 | **59.4** | **1.9** |
| 50 | 50 | **57.8** | **1.8** |
| 0 | 50 | **56** | **1.8** |
| 50 | 25 | **52.4** | **1.6** |
| 0 | 25 | **51.5** | **1.6** |

Delta Electronics Inc. All Right Reserved

# Energy Efficiency Report

Drive efficiency according to IEC 61800-9-2

**Efficiency level:** IE2

| | |
|---|---|
| Series: | **MS300** |
| Model name: | **VFD4A2MS43AFSAA** |

| | | |
|---|---|---|
| Apparent output power | **3.2** | kVA |
| Rated output current | **4.2** | A |
| Rated power output | **1.5** | kW |
| Rated supply voltage | **380-480** | V |
| Rated supply frequency | **50/60** | Hz |
| Standby loss | **5** | W |
| Maximum operating temperature | **50** | °C |

| Frequency (%) | Current (%) | Power loss (W) | Relative Power loss (%) |
|---|---|---|---|
| 90 | 100 | **75.5** | **2.4** |
| 50 | 100 | **70.9** | **2.2** |
| 0 | 100 | **66.8** | **2.1** |
| 90 | 50 | **59.9** | **1.9** |
| 50 | 50 | **57.9** | **1.8** |
| 0 | 50 | **56** | **1.8** |
| 50 | 25 | **52.4** | **1.6** |
| 0 | 25 | **51.5** | **1.6** |

Delta Electronics Inc. All Right Reserved

# Energy Efficiency Report

Drive efficiency according to IEC 61800-9-2

**Efficiency level:** IE2

| | |
|---|---|
| Series: | **MS300** |
| Model name: | **VFD4A2MS43EFSAA** |

| | | |
|---|---|---|
| Apparent output power | **3.2** | kVA |
| Rated output current | **4.2** | A |
| Rated power output | **1.5** | kW |
| Rated supply voltage | **380-480** | V |
| Rated supply frequency | **50/60** | Hz |
| Standby loss | **5** | W |
| Maximum operating temperature | **40** | °C |

| Frequency (%) | Current (%) | Power loss (W) | Relative Power loss (%) |
|---|---|---|---|
| 90 | 100 | **75.5** | **2.4** |
| 50 | 100 | **70.9** | **2.2** |
| 0 | 100 | **66.8** | **2.1** |
| 90 | 50 | **59.9** | **1.9** |
| 50 | 50 | **57.9** | **1.8** |
| 0 | 50 | **56** | **1.8** |
| 50 | 25 | **52.4** | **1.6** |
| 0 | 25 | **51.5** | **1.6** |

Delta Electronics Inc. All Right Reserved

# Energy Efficiency Report

Drive efficiency according to IEC 61800-9-2

**Efficiency level:** IE2

| | |
|---|---|
| Series: | **MS300** |
| Model name: | **VFD5A5MS43ANSAA** |

| | | |
|---|---|---|
| Apparent output power | **4.2** | kVA |
| Rated output current | **5.5** | A |
| Rated power output | **2.2** | kW |
| Rated supply voltage | **380-480** | V |
| Rated supply frequency | **50/60** | Hz |
| Standby loss | **8** | W |
| Maximum operating temperature | **50** | °C |

| Frequency (%) | Current (%) | Power loss (W) | Relative Power loss (%) |
|---|---|---|---|
| 90 | 100 | **97.8** | **2.3** |
| 50 | 100 | **92.8** | **2.2** |
| 0 | 100 | **87.8** | **2.1** |
| 90 | 50 | **77.3** | **1.8** |
| 50 | 50 | **75** | **1.8** |
| 0 | 50 | **72.6** | **1.7** |
| 50 | 25 | **67.5** | **1.6** |
| 0 | 25 | **66.3** | **1.6** |

Delta Electronics Inc. All Right Reserved

# Energy Efficiency Report

Drive efficiency according to IEC 61800-9-2

**Efficiency level:** IE2

| | |
|---|---|
| Series: | **MS300** |
| Model name: | **VFD5A5MS43ENSAA** |

| | | |
|---|---|---|
| Apparent output power | **4.2** | kVA |
| Rated output current | **5.5** | A |
| Rated power output | **2.2** | kW |
| Rated supply voltage | **380-480** | V |
| Rated supply frequency | **50/60** | Hz |
| Standby loss | **8** | W |
| Maximum operating temperature | **40** | °C |

| Frequency (%) | Current (%) | Power loss (W) | Relative Power loss (%) |
|---|---|---|---|
| 90 | 100 | **97.8** | **2.3** |
| 50 | 100 | **92.8** | **2.2** |
| 0 | 100 | **87.8** | **2.1** |
| 90 | 50 | **77.3** | **1.8** |
| 50 | 50 | **75** | **1.8** |
| 0 | 50 | **72.6** | **1.7** |
| 50 | 25 | **67.5** | **1.6** |
| 0 | 25 | **66.3** | **1.6** |

Delta Electronics Inc. All Right Reserved

# Energy Efficiency Report

Drive efficiency according to IEC 61800-9-2

**Efficiency level:** IE2

| | |
|---|---|
| Series: | **MS300** |
| Model name: | **VFD5A5MS43AFSAA** |

| | | |
|---|---|---|
| Apparent output power | **4.2** | kVA |
| Rated output current | **5.5** | A |
| Rated power output | **2.2** | kW |
| Rated supply voltage | **380-480** | V |
| Rated supply frequency | **50/60** | Hz |
| Standby loss | **8** | W |
| Maximum operating temperature | **50** | °C |

| Frequency (%) | Current (%) | Power loss (W) | Relative Power loss (%) |
|---|---|---|---|
| 90 | 100 | **99** | **2.4** |
| 50 | 100 | **93.2** | **2.2** |
| 0 | 100 | **87.8** | **2.1** |
| 90 | 50 | **77.6** | **1.9** |
| 50 | 50 | **75.1** | **1.8** |
| 0 | 50 | **72.6** | **1.7** |
| 50 | 25 | **67.5** | **1.6** |
| 0 | 25 | **66.3** | **1.6** |

Delta Electronics Inc. All Right Reserved

# Energy Efficiency Report

Drive efficiency according to IEC 61800-9-2

**Efficiency level:** IE2

| | |
|---|---|
| Series: | **MS300** |
| Model name: | **VFD5A5MS43EFSAA** |

| | | |
|---|---|---|
| Apparent output power | **4.2** | kVA |
| Rated output current | **5.5** | A |
| Rated power output | **2.2** | kW |
| Rated supply voltage | **380-480** | V |
| Rated supply frequency | **50/60** | Hz |
| Standby loss | **8** | W |
| Maximum operating temperature | **40** | °C |

| Frequency (%) | Current (%) | Power loss (W) | Relative Power loss (%) |
|---|---|---|---|
| 90 | 100 | **99** | **2.4** |
| 50 | 100 | **93.2** | **2.2** |
| 0 | 100 | **87.8** | **2.1** |
| 90 | 50 | **77.6** | **1.9** |
| 50 | 50 | **75.1** | **1.8** |
| 0 | 50 | **72.6** | **1.7** |
| 50 | 25 | **67.5** | **1.6** |
| 0 | 25 | **66.3** | **1.6** |

Delta Electronics Inc. All Right Reserved

# Energy Efficiency Report

Drive efficiency according to IEC 61800-9-2

**Efficiency level:** IE2

| | |
|---|---|
| Series: | **MS300** |
| Model name: | **VFD7A3MS43ANSAA** |

| | | |
|---|---|---|
| Apparent output power | **5.6** | kVA |
| Rated output current | **7.3** | A |
| Rated power output | **3** | kW |
| Rated supply voltage | **380-480** | V |
| Rated supply frequency | **50/60** | Hz |
| Standby loss | **8** | W |
| Maximum operating temperature | **50** | °C |

| Frequency (%) | Current (%) | Power loss (W) | Relative Power loss (%) |
|---|---|---|---|
| 90 | 100 | **128.5** | **2.3** |
| 50 | 100 | **121** | **2.2** |
| 0 | 100 | **113.6** | **2** |
| 90 | 50 | **98.2** | **1.8** |
| 50 | 50 | **94.9** | **1.7** |
| 0 | 50 | **91.5** | **1.6** |
| 50 | 25 | **84.1** | **1.5** |
| 0 | 25 | **82.5** | **1.5** |

Delta Electronics Inc. All Right Reserved

# Energy Efficiency Report

Drive efficiency according to IEC 61800-9-2

**Efficiency level:** IE2

| | |
|---|---|
| Series: | **MS300** |
| Model name: | **VFD7A3MS43ENSAA** |

| | | |
|---|---|---|
| Apparent output power | **5.6** | kVA |
| Rated output current | **7.3** | A |
| Rated power output | **3** | kW |
| Rated supply voltage | **380-480** | V |
| Rated supply frequency | **50/60** | Hz |
| Standby loss | **8** | W |
| Maximum operating temperature | **40** | °C |

| Frequency (%) | Current (%) | Power loss (W) | Relative Power loss (%) |
|---|---|---|---|
| 90 | 100 | **128.5** | **2.3** |
| 50 | 100 | **121** | **2.2** |
| 0 | 100 | **113.6** | **2** |
| 90 | 50 | **98.2** | **1.8** |
| 50 | 50 | **94.9** | **1.7** |
| 0 | 50 | **91.5** | **1.6** |
| 50 | 25 | **84.1** | **1.5** |
| 0 | 25 | **82.5** | **1.5** |

Delta Electronics Inc. All Right Reserved

# Energy Efficiency Report

Drive efficiency according to IEC 61800-9-2

**Efficiency level:** IE2

| | |
|---|---|
| Series: | **MS300** |
| Model name: | **VFD7A3MS43AFSAA** |

| | | |
|---|---|---|
| Apparent output power | **5.6** | kVA |
| Rated output current | **7.3** | A |
| Rated power output | **3** | kW |
| Rated supply voltage | **380-480** | V |
| Rated supply frequency | **50/60** | Hz |
| Standby loss | **8** | W |
| Maximum operating temperature | **50** | °C |

| Frequency (%) | Current (%) | Power loss (W) | Relative Power loss (%) |
|---|---|---|---|
| 90 | 100 | **130.7** | **2.3** |
| 50 | 100 | **121.6** | **2.2** |
| 0 | 100 | **113.6** | **2** |
| 90 | 50 | **98.8** | **1.8** |
| 50 | 50 | **95.1** | **1.7** |
| 0 | 50 | **91.5** | **1.6** |
| 50 | 25 | **84.2** | **1.5** |
| 0 | 25 | **82.5** | **1.5** |

Delta Electronics Inc. All Right Reserved

# Energy Efficiency Report

Drive efficiency according to IEC 61800-9-2

**Efficiency level:** IE2

| | |
|---|---|
| Series: | **MS300** |
| Model name: | **VFD7A3MS43EFSAA** |

| | | |
|---|---|---|
| Apparent output power | **5.6** | kVA |
| Rated output current | **7.3** | A |
| Rated power output | **3** | kW |
| Rated supply voltage | **380-480** | V |
| Rated supply frequency | **50/60** | Hz |
| Standby loss | **8** | W |
| Maximum operating temperature | **40** | °C |

| Frequency (%) | Current (%) | Power loss (W) | Relative Power loss (%) |
|---|---|---|---|
| 90 | 100 | **130.7** | **2.3** |
| 50 | 100 | **121.6** | **2.2** |
| 0 | 100 | **113.6** | **2** |
| 90 | 50 | **98.8** | **1.8** |
| 50 | 50 | **95.1** | **1.7** |
| 0 | 50 | **91.5** | **1.6** |
| 50 | 25 | **84.2** | **1.5** |
| 0 | 25 | **82.5** | **1.5** |

Delta Electronics Inc. All Right Reserved

# Energy Efficiency Report

Drive efficiency according to IEC 61800-9-2

**Efficiency level:** IE2

| | |
|---|---|
| Series: | **MS300** |
| Model name: | **VFD9A0MS43ANSAA** |

| | | |
|---|---|---|
| Apparent output power | 6.9 | kVA |
| Rated output current | 9 | A |
| Rated power output | 3.7 | kW |
| Rated supply voltage | 380-480 | V |
| Rated supply frequency | 50/60 | Hz |
| Standby loss | 8 | W |
| Maximum operating temperature | 50 | °C |

| Frequency (%) | Current (%) | Power loss (W) | Relative Power loss (%) |
|---|---|---|---|
| 90 | 100 | 138.1 | 2 |
| 50 | 100 | 131.7 | 1.9 |
| 0 | 100 | 124.4 | 1.8 |
| 90 | 50 | 109 | 1.6 |
| 50 | 50 | 105.9 | 1.5 |
| 0 | 50 | 102.3 | 1.5 |
| 50 | 25 | 94.8 | 1.4 |
| 0 | 25 | 93 | 1.4 |

Delta Electronics Inc. All Right Reserved

# Energy Efficiency Report

Drive efficiency according to IEC 61800-9-2

**Efficiency level:** IE2

| | |
|---|---|
| Series: | **MS300** |
| Model name: | **VFD9A0MS43ENSAA** |

| | | |
|---|---|---|
| Apparent output power | **6.9** | kVA |
| Rated output current | **9** | A |
| Rated power output | **3.7** | kW |
| Rated supply voltage | **380-480** | V |
| Rated supply frequency | **50/60** | Hz |
| Standby loss | **8** | W |
| Maximum operating temperature | **40** | °C |

| Frequency (%) | Current (%) | Power loss (W) | Relative Power loss (%) |
|---|---|---|---|
| 90 | 100 | **138.1** | **2** |
| 50 | 100 | **131.7** | **1.9** |
| 0 | 100 | **124.4** | **1.8** |
| 90 | 50 | **109** | **1.6** |
| 50 | 50 | **105.9** | **1.5** |
| 0 | 50 | **102.3** | **1.5** |
| 50 | 25 | **94.8** | **1.4** |
| 0 | 25 | **93** | **1.4** |

Delta Electronics Inc. All Right Reserved

# Energy Efficiency Report

Drive efficiency according to IEC 61800-9-2

**Efficiency level:** IE2

| | |
|---|---|
| Series: | **MS300** |
| Model name: | **VFD9A0MS43AFSAA** |

| | | |
|---|---|---|
| Apparent output power | 6.9 | kVA |
| Rated output current | 9 | A |
| Rated power output | 3.7 | kW |
| Rated supply voltage | 380-480 | V |
| Rated supply frequency | 50/60 | Hz |
| Standby loss | 8 | W |
| Maximum operating temperature | 50 | °C |

| Frequency (%) | Current (%) | Power loss (W) | Relative Power loss (%) |
|---|---|---|---|
| 90 | 100 | 141.4 | 2.1 |
| 50 | 100 | 132.7 | 1.9 |
| 0 | 100 | 124.4 | 1.8 |
| 90 | 50 | 110 | 1.6 |
| 50 | 50 | 106.2 | 1.5 |
| 0 | 50 | 102.3 | 1.5 |
| 50 | 25 | 94.8 | 1.4 |
| 0 | 25 | 93 | 1.4 |

Delta Electronics Inc. All Right Reserved

# Energy Efficiency Report

Drive efficiency according to IEC 61800-9-2

**Efficiency level:** IE2

| | |
|---|---|
| Series: | **MS300** |
| Model name: | **VFD9A0MS43EFSAA** |

| | | |
|---|---|---|
| Apparent output power | 6.9 | kVA |
| Rated output current | 9 | A |
| Rated power output | 3.7 | kW |
| Rated supply voltage | 380-480 | V |
| Rated supply frequency | 50/60 | Hz |
| Standby loss | 8 | W |
| Maximum operating temperature | 40 | °C |

| Frequency (%) | Current (%) | Power loss (W) | Relative Power loss (%) |
|---|---|---|---|
| 90 | 100 | 141.4 | 2.1 |
| 50 | 100 | 132.7 | 1.9 |
| 0 | 100 | 124.4 | 1.8 |
| 90 | 50 | 110 | 1.6 |
| 50 | 50 | 106.2 | 1.5 |
| 0 | 50 | 102.3 | 1.5 |
| 50 | 25 | 94.8 | 1.4 |
| 0 | 25 | 93 | 1.4 |

Delta Electronics Inc. All Right Reserved

# Energy Efficiency Report

Drive efficiency according to IEC 61800-9-2

**Efficiency level:** IE2

| | |
|---|---|
| Series: | **MS300** |
| Model name: | **VFD13AMS43ANSAA** |

| | | |
|---|---|---|
| Apparent output power | **9.9** | kVA |
| Rated output current | **13** | A |
| Rated power output | **5.5** | kW |
| Rated supply voltage | **380-480** | V |
| Rated supply frequency | **50/60** | Hz |
| Standby loss | **8** | W |
| Maximum operating temperature | **50** | °C |

| Frequency (%) | Current (%) | Power loss (W) | Relative Power loss (%) |
|---|---|---|---|
| 90 | 100 | **193.4** | **2** |
| 50 | 100 | **181.9** | **1.8** |
| 0 | 100 | **169.5** | **1.7** |
| 90 | 50 | **131.4** | **1.3** |
| 50 | 50 | **126.6** | **1.3** |
| 0 | 50 | **121.2** | **1.2** |
| 50 | 25 | **107.6** | **1.1** |
| 0 | 25 | **104.9** | **1.1** |

Delta Electronics Inc. All Right Reserved

# Energy Efficiency Report

Drive efficiency according to IEC 61800-9-2

**Efficiency level:** IE2

| | |
|---|---|
| Series: | **MS300** |
| Model name: | **VFD13AMS43ENSAA** |

| | | |
|---|---|---|
| Apparent output power | **9.9** | kVA |
| Rated output current | **13** | A |
| Rated power output | **5.5** | kW |
| Rated supply voltage | **380-480** | V |
| Rated supply frequency | **50/60** | Hz |
| Standby loss | **8** | W |
| Maximum operating temperature | **40** | °C |

| Frequency (%) | Current (%) | Power loss (W) | Relative Power loss (%) |
|---|---|---|---|
| 90 | 100 | **193.4** | **2** |
| 50 | 100 | **181.9** | **1.8** |
| 0 | 100 | **169.5** | **1.7** |
| 90 | 50 | **131.4** | **1.3** |
| 50 | 50 | **126.6** | **1.3** |
| 0 | 50 | **121.2** | **1.2** |
| 50 | 25 | **107.6** | **1.1** |
| 0 | 25 | **104.9** | **1.1** |

Delta Electronics Inc. All Right Reserved

# Energy Efficiency Report

Drive efficiency according to IEC 61800-9-2

**Efficiency level:** IE2

| | |
|---|---|
| Series: | **MS300** |
| Model name: | **VFD13AMS43AFSAA** |

| | | |
|---|---|---|
| Apparent output power | **9.9** | kVA |
| Rated output current | **13** | A |
| Rated power output | **5.5** | kW |
| Rated supply voltage | **380-480** | V |
| Rated supply frequency | **50/60** | Hz |
| Standby loss | **8** | W |
| Maximum operating temperature | **50** | °C |

| Frequency (%) | Current (%) | Power loss (W) | Relative Power loss (%) |
|---|---|---|---|
| 90 | 100 | **196.7** | **2** |
| 50 | 100 | **182.9** | **1.9** |
| 0 | 100 | **169.5** | **1.7** |
| 90 | 50 | **132.2** | **1.3** |
| 50 | 50 | **126.9** | **1.3** |
| 0 | 50 | **121.2** | **1.2** |
| 50 | 25 | **107.6** | **1.1** |
| 0 | 25 | **104.9** | **1.1** |

Delta Electronics Inc. All Right Reserved

# Energy Efficiency Report

Drive efficiency according to IEC 61800-9-2

**Efficiency level:** IE2

| | |
|---|---|
| Series: | **MS300** |
| Model name: | **VFD13AMS43EFSAA** |

| | | |
|---|---|---|
| Apparent output power | **9.9** | kVA |
| Rated output current | **13** | A |
| Rated power output | **5.5** | kW |
| Rated supply voltage | **380-480** | V |
| Rated supply frequency | **50/60** | Hz |
| Standby loss | **8** | W |
| Maximum operating temperature | **40** | °C |

| Frequency (%) | Current (%) | Power loss (W) | Relative Power loss (%) |
|---|---|---|---|
| 90 | 100 | **196.7** | **2** |
| 50 | 100 | **182.9** | **1.9** |
| 0 | 100 | **169.5** | **1.7** |
| 90 | 50 | **132.2** | **1.3** |
| 50 | 50 | **126.9** | **1.3** |
| 0 | 50 | **121.2** | **1.2** |
| 50 | 25 | **107.6** | **1.1** |
| 0 | 25 | **104.9** | **1.1** |

Delta Electronics Inc. All Right Reserved

# Energy Efficiency Report

Drive efficiency according to IEC 61800-9-2

**Efficiency level:** IE2

| | |
|---|---|
| Series: | **MS300** |
| Model name: | **VFD17AMS43ANSAA** |

| | | |
|---|---|---|
| Apparent output power | **13** | kVA |
| Rated output current | **17** | A |
| Rated power output | **7.5** | kW |
| Rated supply voltage | **380-480** | V |
| Rated supply frequency | **50/60** | Hz |
| Standby loss | **8** | W |
| Maximum operating temperature | **50** | °C |

| Frequency (%) | Current (%) | Power loss (W) | Relative Power loss (%) |
|---|---|---|---|
| 90 | 100 | **246.2** | **1.9** |
| 50 | 100 | **230.1** | **1.8** |
| 0 | 100 | **213.4** | **1.6** |
| 90 | 50 | **161.7** | **1.2** |
| 50 | 50 | **155.2** | **1.2** |
| 0 | 50 | **147.9** | **1.1** |
| 50 | 25 | **129.3** | **1** |
| 0 | 25 | **125.8** | **1** |

Delta Electronics Inc. All Right Reserved

# Energy Efficiency Report

Drive efficiency according to IEC 61800-9-2

**Efficiency level:** IE2

| | |
|---|---|
| Series: | **MS300** |
| Model name: | **VFD17AMS43ENSAA** |

| | | |
|---|---|---|
| Apparent output power | **13** | kVA |
| Rated output current | **17** | A |
| Rated power output | **7.5** | kW |
| Rated supply voltage | **380-480** | V |
| Rated supply frequency | **50/60** | Hz |
| Standby loss | **8** | W |
| Maximum operating temperature | **40** | °C |

| Frequency (%) | Current (%) | Power loss (W) | Relative Power loss (%) |
|---|---|---|---|
| 90 | 100 | **246.2** | **1.9** |
| 50 | 100 | **230.1** | **1.8** |
| 0 | 100 | **213.4** | **1.6** |
| 90 | 50 | **161.7** | **1.2** |
| 50 | 50 | **155.2** | **1.2** |
| 0 | 50 | **147.9** | **1.1** |
| 50 | 25 | **129.3** | **1** |
| 0 | 25 | **125.8** | **1** |

Delta Electronics Inc. All Right Reserved

# Energy Efficiency Report

Drive efficiency according to IEC 61800-9-2

**Efficiency level:** IE2

| | |
|---|---|
| Series: | **MS300** |
| Model name: | **VFD17AMS43AFSAA** |

| | | |
|---|---|---|
| Apparent output power | **13** | kVA |
| Rated output current | **17** | A |
| Rated power output | **7.5** | kW |
| Rated supply voltage | **380-480** | V |
| Rated supply frequency | **50/60** | Hz |
| Standby loss | **8** | W |
| Maximum operating temperature | **50** | °C |

| Frequency (%) | Current (%) | Power loss (W) | Relative Power loss (%) |
|---|---|---|---|
| 90 | 100 | **251.8** | **1.9** |
| 50 | 100 | **231.9** | **1.8** |
| 0 | 100 | **213.4** | **1.6** |
| 90 | 50 | **163.1** | **1.3** |
| 50 | 50 | **155.6** | **1.2** |
| 0 | 50 | **147.9** | **1.1** |
| 50 | 25 | **129.4** | **1** |
| 0 | 25 | **125.8** | **1** |

Delta Electronics Inc. All Right Reserved

# Energy Efficiency Report

Drive efficiency according to IEC 61800-9-2

**Efficiency level:** IE2

| | |
|---|---|
| Series: | **MS300** |
| Model name: | **VFD17AMS43EFSAA** |

| | | |
|---|---|---|
| Apparent output power | **13** | kVA |
| Rated output current | **17** | A |
| Rated power output | **7.5** | kW |
| Rated supply voltage | **380-480** | V |
| Rated supply frequency | **50/60** | Hz |
| Standby loss | **8** | W |
| Maximum operating temperature | **40** | °C |

| Frequency (%) | Current (%) | Power loss (W) | Relative Power loss (%) |
|---|---|---|---|
| 90 | 100 | **251.8** | **1.9** |
| 50 | 100 | **231.9** | **1.8** |
| 0 | 100 | **213.4** | **1.6** |
| 90 | 50 | **163.1** | **1.3** |
| 50 | 50 | **155.6** | **1.2** |
| 0 | 50 | **147.9** | **1.1** |
| 50 | 25 | **129.4** | **1** |
| 0 | 25 | **125.8** | **1** |

Delta Electronics Inc. All Right Reserved

# Energy Efficiency Report

Drive efficiency according to IEC 61800-9-2

**Efficiency level:** IE2

| | |
|---|---|
| Series: | **MS300** |
| Model name: | **VFD25AMS43ANSAA** |

| | | |
|---|---|---|
| Apparent output power | **19.1** | kVA |
| Rated output current | **25** | A |
| Rated power output | **11** | kW |
| Rated supply voltage | **380-480** | V |
| Rated supply frequency | **50/60** | Hz |
| Standby loss | **11** | W |
| Maximum operating temperature | **50** | °C |

| Frequency (%) | Current (%) | Power loss (W) | Relative Power loss (%) |
|---|---|---|---|
| 90 | 100 | **343.1** | **1.8** |
| 50 | 100 | **308.3** | **1.6** |
| 0 | 100 | **276** | **1.5** |
| 90 | 50 | **210.1** | **1.1** |
| 50 | 50 | **196.7** | **1** |
| 0 | 50 | **182.8** | **1** |
| 50 | 25 | **158.2** | **0.8** |
| 0 | 25 | **151.6** | **0.8** |

Delta Electronics Inc. All Right Reserved

# Energy Efficiency Report

Drive efficiency according to IEC 61800-9-2

**Efficiency level:** IE2

| | |
|---|---|
| Series: | **MS300** |
| Model name: | **VFD25AMS43ENSAA** |

| | | |
|---|---|---|
| Apparent output power | **19.1** | kVA |
| Rated output current | **25** | A |
| Rated power output | **11** | kW |
| Rated supply voltage | **380-480** | V |
| Rated supply frequency | **50/60** | Hz |
| Standby loss | **11** | W |
| Maximum operating temperature | **40** | °C |

| Frequency (%) | Current (%) | Power loss (W) | Relative Power loss (%) |
|---|---|---|---|
| 90 | 100 | **343.1** | **1.8** |
| 50 | 100 | **308.3** | **1.6** |
| 0 | 100 | **276** | **1.5** |
| 90 | 50 | **210.1** | **1.1** |
| 50 | 50 | **196.7** | **1** |
| 0 | 50 | **182.8** | **1** |
| 50 | 25 | **158.2** | **0.8** |
| 0 | 25 | **151.6** | **0.8** |

Delta Electronics Inc. All Right Reserved

# Energy Efficiency Report

Drive efficiency according to IEC 61800-9-2

**Efficiency level:** IE2

| | |
|---|---|
| Series: | **MS300** |
| Model name: | **VFD25AMS43AFSAA** |

| | | |
|---|---|---|
| Apparent output power | **19.1** | kVA |
| Rated output current | **25** | A |
| Rated power output | **11** | kW |
| Rated supply voltage | **380-480** | V |
| Rated supply frequency | **50/60** | Hz |
| Standby loss | **11** | W |
| Maximum operating temperature | **50** | °C |

| Frequency (%) | Current (%) | Power loss (W) | Relative Power loss (%) |
|---|---|---|---|
| 90 | 100 | **347** | **1.8** |
| 50 | 100 | **309.5** | **1.6** |
| 0 | 100 | **276** | **1.5** |
| 90 | 50 | **211** | **1.1** |
| 50 | 50 | **197** | **1** |
| 0 | 50 | **182.8** | **1** |
| 50 | 25 | **158.3** | **0.8** |
| 0 | 25 | **151.6** | **0.8** |

Delta Electronics Inc. All Right Reserved

# Energy Efficiency Report

Drive efficiency according to IEC 61800-9-2

**Efficiency level:** IE2

| | |
|---|---|
| Series: | **MS300** |
| Model name: | **VFD25AMS43EFSAA** |

| | | |
|---|---|---|
| Apparent output power | **19.1** | kVA |
| Rated output current | **25** | A |
| Rated power output | **11** | kW |
| Rated supply voltage | **380-480** | V |
| Rated supply frequency | **50/60** | Hz |
| Standby loss | **11** | W |
| Maximum operating temperature | **40** | °C |

| Frequency (%) | Current (%) | Power loss (W) | Relative Power loss (%) |
|---|---|---|---|
| 90 | 100 | **347** | **1.8** |
| 50 | 100 | **309.5** | **1.6** |
| 0 | 100 | **276** | **1.5** |
| 90 | 50 | **211** | **1.1** |
| 50 | 50 | **197** | **1** |
| 0 | 50 | **182.8** | **1** |
| 50 | 25 | **158.3** | **0.8** |
| 0 | 25 | **151.6** | **0.8** |

Delta Electronics Inc. All Right Reserved

# Energy Efficiency Report

Drive efficiency according to IEC 61800-9-2

**Efficiency level:** IE2

| | |
|---|---|
| Series: | **MS300** |
| Model name: | **VFD32AMS43ANSAA** |

| | | |
|---|---|---|
| Apparent output power | **24.4** | kVA |
| Rated output current | **32** | A |
| Rated power output | **15** | kW |
| Rated supply voltage | **380-480** | V |
| Rated supply frequency | **50/60** | Hz |
| Standby loss | **11** | W |
| Maximum operating temperature | **50** | °C |

| Frequency (%) | Current (%) | Power loss (W) | Relative Power loss (%) |
|---|---|---|---|
| 90 | 100 | **405.5** | **1.7** |
| 50 | 100 | **365** | **1.5** |
| 0 | 100 | **324.6** | **1.3** |
| 90 | 50 | **245.4** | **1** |
| 50 | 50 | **228.8** | **0.9** |
| 0 | 50 | **210.6** | **0.9** |
| 50 | 25 | **180.9** | **0.7** |
| 0 | 25 | **172** | **0.7** |

Delta Electronics Inc. All Right Reserved

# Energy Efficiency Report

Drive efficiency according to IEC 61800-9-2

**Efficiency level:** IE2

| | |
|---|---|
| Series: | **MS300** |
| Model name: | **VFD32AMS43ENSAA** |

| | | |
|---|---|---|
| Apparent output power | **24.4** | kVA |
| Rated output current | **32** | A |
| Rated power output | **15** | kW |
| Rated supply voltage | **380-480** | V |
| Rated supply frequency | **50/60** | Hz |
| Standby loss | **11** | W |
| Maximum operating temperature | **40** | °C |

| Frequency (%) | Current (%) | Power loss (W) | Relative Power loss (%) |
|---|---|---|---|
| 90 | 100 | **405.5** | **1.7** |
| 50 | 100 | **365** | **1.5** |
| 0 | 100 | **324.6** | **1.3** |
| 90 | 50 | **245.4** | **1** |
| 50 | 50 | **228.8** | **0.9** |
| 0 | 50 | **210.6** | **0.9** |
| 50 | 25 | **180.9** | **0.7** |
| 0 | 25 | **172** | **0.7** |

Delta Electronics Inc. All Right Reserved

# Energy Efficiency Report

Drive efficiency according to IEC 61800-9-2

**Efficiency level:** IE2

| | |
|---|---|
| Series: | **MS300** |
| Model name: | **VFD32AMS43AFSAA** |

| | | |
|---|---|---|
| Apparent output power | **24.4** | kVA |
| Rated output current | **32** | A |
| Rated power output | **15** | kW |
| Rated supply voltage | **380-480** | V |
| Rated supply frequency | **50/60** | Hz |
| Standby loss | **11** | W |
| Maximum operating temperature | **50** | °C |

| Frequency (%) | Current (%) | Power loss (W) | Relative Power loss (%) |
|---|---|---|---|
| 90 | 100 | **411.9** | **1.7** |
| 50 | 100 | **367** | **1.5** |
| 0 | 100 | **324.6** | **1.3** |
| 90 | 50 | **247** | **1** |
| 50 | 50 | **229.3** | **0.9** |
| 0 | 50 | **210.6** | **0.9** |
| 50 | 25 | **181.1** | **0.7** |
| 0 | 25 | **172** | **0.7** |

Delta Electronics Inc. All Right Reserved

# Energy Efficiency Report

Drive efficiency according to IEC 61800-9-2

**Efficiency level:** IE2

| | |
|---|---|
| Series: | **MS300** |
| Model name: | **VFD32AMS43EFSAA** |

| | | |
|---|---|---|
| Apparent output power | **24.4** | kVA |
| Rated output current | **32** | A |
| Rated power output | **15** | kW |
| Rated supply voltage | **380-480** | V |
| Rated supply frequency | **50/60** | Hz |
| Standby loss | **11** | W |
| Maximum operating temperature | **40** | °C |

| Frequency (%) | Current (%) | Power loss (W) | Relative Power loss (%) |
|---|---|---|---|
| 90 | 100 | **411.9** | **1.7** |
| 50 | 100 | **367** | **1.5** |
| 0 | 100 | **324.6** | **1.3** |
| 90 | 50 | **247** | **1** |
| 50 | 50 | **229.3** | **0.9** |
| 0 | 50 | **210.6** | **0.9** |
| 50 | 25 | **181.1** | **0.7** |
| 0 | 25 | **172** | **0.7** |

Delta Electronics Inc. All Right Reserved

# Energy Efficiency Report

Drive efficiency according to IEC 61800-9-2

**Efficiency level:** IE2

| | |
|---|---|
| Series: | **MS300** |
| Model name: | **VFD38AMS43ANSAA** |

| | | |
|---|---|---|
| Apparent output power | **29** | kVA |
| Rated output current | **38** | A |
| Rated power output | **18.5** | kW |
| Rated supply voltage | **380-480** | V |
| Rated supply frequency | **50/60** | Hz |
| Standby loss | **11** | W |
| Maximum operating temperature | **50** | °C |

| Frequency (%) | Current (%) | Power loss (W) | Relative Power loss (%) |
|---|---|---|---|
| 90 | 100 | **440.1** | **1.5** |
| 50 | 100 | **407.9** | **1.4** |
| 0 | 100 | **373.2** | **1.3** |
| 90 | 50 | **266.7** | **0.9** |
| 50 | 50 | **253.1** | **0.9** |
| 0 | 50 | **237.4** | **0.8** |
| 50 | 25 | **199.4** | **0.7** |
| 0 | 25 | **191.6** | **0.7** |

Delta Electronics Inc. All Right Reserved

# Energy Efficiency Report

Drive efficiency according to IEC 61800-9-2

**Efficiency level:** IE2

| | |
|---|---|
| Series: | **MS300** |
| Model name: | **VFD38AMS43ENSAA** |

| | | |
|---|---|---|
| Apparent output power | **29** | kVA |
| Rated output current | **38** | A |
| Rated power output | **18.5** | kW |
| Rated supply voltage | **380-480** | V |
| Rated supply frequency | **50/60** | Hz |
| Standby loss | **11** | W |
| Maximum operating temperature | **40** | °C |

| Frequency (%) | Current (%) | Power loss (W) | Relative Power loss (%) |
|---|---|---|---|
| 90 | 100 | **440.1** | **1.5** |
| 50 | 100 | **407.9** | **1.4** |
| 0 | 100 | **373.2** | **1.3** |
| 90 | 50 | **266.7** | **0.9** |
| 50 | 50 | **253.1** | **0.9** |
| 0 | 50 | **237.4** | **0.8** |
| 50 | 25 | **199.4** | **0.7** |
| 0 | 25 | **191.6** | **0.7** |

Delta Electronics Inc. All Right Reserved

# Energy Efficiency Report

Drive efficiency according to IEC 61800-9-2

**Efficiency level:** IE2

| | |
|---|---|
| Series: | **MS300** |
| Model name: | **VFD38AMS43AFSAA** |

| | | |
|---|---|---|
| Apparent output power | **29** | kVA |
| Rated output current | **38** | A |
| Rated power output | **18.5** | kW |
| Rated supply voltage | **380-480** | V |
| Rated supply frequency | **50/60** | Hz |
| Standby loss | **11** | W |
| Maximum operating temperature | **50** | °C |

| Frequency (%) | Current (%) | Power loss (W) | Relative Power loss (%) |
|---|---|---|---|
| 90 | 100 | **451.9** | **1.6** |
| 50 | 100 | **411.5** | **1.4** |
| 0 | 100 | **373.2** | **1.3** |
| 90 | 50 | **269.7** | **0.9** |
| 50 | 50 | **254** | **0.9** |
| 0 | 50 | **237.4** | **0.8** |
| 50 | 25 | **199.6** | **0.7** |
| 0 | 25 | **191.6** | **0.7** |

Delta Electronics Inc. All Right Reserved

# Energy Efficiency Report

Drive efficiency according to IEC 61800-9-2

**Efficiency level:** IE2

| | |
|---|---|
| Series: | **MS300** |
| Model name: | **VFD38AMS43EFSAA** |

| | | |
|---|---|---|
| Apparent output power | **29** | kVA |
| Rated output current | **38** | A |
| Rated power output | **18.5** | kW |
| Rated supply voltage | **380-480** | V |
| Rated supply frequency | **50/60** | Hz |
| Standby loss | **11** | W |
| Maximum operating temperature | **40** | °C |

| Frequency (%) | Current (%) | Power loss (W) | Relative Power loss (%) |
|---|---|---|---|
| 90 | 100 | **451.9** | **1.6** |
| 50 | 100 | **411.5** | **1.4** |
| 0 | 100 | **373.2** | **1.3** |
| 90 | 50 | **269.7** | **0.9** |
| 50 | 50 | **254** | **0.9** |
| 0 | 50 | **237.4** | **0.8** |
| 50 | 25 | **199.6** | **0.7** |
| 0 | 25 | **191.6** | **0.7** |

Delta Electronics Inc. All Right Reserved

# Energy Efficiency Report

Drive efficiency according to IEC 61800-9-2

**Efficiency level:** IE2

| | |
|---|---|
| Series: | **MS300** |
| Model name: | **VFD45AMS43ANSAA** |

| | | |
|---|---|---|
| Apparent output power | **34.3** | kVA |
| Rated output current | **45** | A |
| Rated power output | **22** | kW |
| Rated supply voltage | **380-480** | V |
| Rated supply frequency | **50/60** | Hz |
| Standby loss | **11** | W |
| Maximum operating temperature | **50** | °C |

| Frequency (%) | Current (%) | Power loss (W) | Relative Power loss (%) |
|---|---|---|---|
| 90 | 100 | **511.5** | **1.5** |
| 50 | 100 | **471.1** | **1.4** |
| 0 | 100 | **428.4** | **1.3** |
| 90 | 50 | **303.6** | **0.9** |
| 50 | 50 | **286.8** | **0.8** |
| 0 | 50 | **267.8** | **0.8** |
| 50 | 25 | **223** | **0.7** |
| 0 | 25 | **213.7** | **0.6** |

Delta Electronics Inc. All Right Reserved

# Energy Efficiency Report

Drive efficiency according to IEC 61800-9-2

**Efficiency level:** IE2

| | |
|---|---|
| Series: | **MS300** |
| Model name: | **VFD45AMS43ENSAA** |

| | | |
|---|---|---|
| Apparent output power | **34.3** | kVA |
| Rated output current | **45** | A |
| Rated power output | **22** | kW |
| Rated supply voltage | **380-480** | V |
| Rated supply frequency | **50/60** | Hz |
| Standby loss | **11** | W |
| Maximum operating temperature | **40** | °C |

| Frequency (%) | Current (%) | Power loss (W) | Relative Power loss (%) |
|---|---|---|---|
| 90 | 100 | **511.5** | **1.5** |
| 50 | 100 | **471.1** | **1.4** |
| 0 | 100 | **428.4** | **1.3** |
| 90 | 50 | **303.6** | **0.9** |
| 50 | 50 | **286.8** | **0.8** |
| 0 | 50 | **267.8** | **0.8** |
| 50 | 25 | **223** | **0.7** |
| 0 | 25 | **213.7** | **0.6** |

Delta Electronics Inc. All Right Reserved

# Energy Efficiency Report

Drive efficiency according to IEC 61800-9-2

**Efficiency level:** IE2

| | |
|---|---|
| Series: | **MS300** |
| Model name: | **VFD45AMS43AFSAA** |

| | | |
|---|---|---|
| Apparent output power | **34.3** | kVA |
| Rated output current | **45** | A |
| Rated power output | **22** | kW |
| Rated supply voltage | **380-480** | V |
| Rated supply frequency | **50/60** | Hz |
| Standby loss | **11** | W |
| Maximum operating temperature | **50** | °C |

| Frequency (%) | Current (%) | Power loss (W) | Relative Power loss (%) |
|---|---|---|---|
| 90 | 100 | **528.1** | **1.5** |
| 50 | 100 | **476.3** | **1.4** |
| 0 | 100 | **428.4** | **1.3** |
| 90 | 50 | **307.8** | **0.9** |
| 50 | 50 | **288.1** | **0.8** |
| 0 | 50 | **267.8** | **0.8** |
| 50 | 25 | **223.4** | **0.7** |
| 0 | 25 | **213.7** | **0.6** |

Delta Electronics Inc. All Right Reserved

# Energy Efficiency Report

Drive efficiency according to IEC 61800-9-2

**Efficiency level:** IE2

| | |
|---|---|
| Series: | **MS300** |
| Model name: | **VFD45AMS43EFSAA** |

| | | |
|---|---|---|
| Apparent output power | **34.3** | kVA |
| Rated output current | **45** | A |
| Rated power output | **22** | kW |
| Rated supply voltage | **380-480** | V |
| Rated supply frequency | **50/60** | Hz |
| Standby loss | **11** | W |
| Maximum operating temperature | **40** | °C |

| Frequency (%) | Current (%) | Power loss (W) | Relative Power loss (%) |
|---|---|---|---|
| 90 | 100 | **528.1** | **1.5** |
| 50 | 100 | **476.3** | **1.4** |
| 0 | 100 | **428.4** | **1.3** |
| 90 | 50 | **307.8** | **0.9** |
| 50 | 50 | **288.1** | **0.8** |
| 0 | 50 | **267.8** | **0.8** |
| 50 | 25 | **223.4** | **0.7** |
| 0 | 25 | **213.7** | **0.6** |

Delta Electronics Inc. All Right Reserved

# Energy Efficiency Report

Drive efficiency according to IEC 61800-9-2

| Efficiency level: | IE2 |
|---|---|

| | |
|---|---|
| Series: | MS300 (IP20 Plate) |
| Model name: | VFD2A7MS43PNSAA |
| Derivative model: | VFD2A7MS43PNSART |

| | | |
|---|---|---|
| Apparent output power | 2.1 | kVA |
| Rated output current | 2.7 | A |
| Rated power output | 0.75 | kW |
| Rated supply voltage | 380-480 | V |
| Rated supply frequency | 50/60 | Hz |
| Standby loss | 5 | W |
| Maximum operating temperature | 50 | °C |

| Frequency (%) | Current (%) | Power loss (W) | Relative Power loss (%) |
|---|---|---|---|
| 90 | 100 | 55.5 | 2.64 |
| 50 | 100 | 53.6 | 2.55 |
| 0 | 100 | 51.5 | 2.45 |
| 90 | 50 | 47.2 | 2.25 |
| 50 | 50 | 46.3 | 2.2 |
| 0 | 50 | 45.2 | 2.15 |
| 50 | 25 | 43.1 | 2.05 |
| 0 | 25 | 42.6 | 2.03 |

Delta Electronics Inc. All Right Reserved

# Energy Efficiency Report

Drive efficiency according to IEC 61800-9-2

| Efficiency level: | IE2 |
|---|---|

| | |
|---|---|
| Series: | MS300 (IP20 Plate) |
| Model name: | VFD4A2MS43PNSAA |
| Derivative model: | VFD4A2MS43PNSART |

| | | |
|---|---|---|
| Apparent output power | 3.2 | kVA |
| Rated output current | 4.2 | A |
| Rated power output | 1.5 | kW |
| Rated supply voltage | 380-480 | V |
| Rated supply frequency | 50/60 | Hz |
| Standby loss | 5 | W |
| Maximum operating temperature | 50 | °C |

| Frequency (%) | Current (%) | Power loss (W) | Relative Power loss (%) |
|---|---|---|---|
| 90 | 100 | 73.8 | 2.31 |
| 50 | 100 | 70.4 | 2.2 |
| 0 | 100 | 66.8 | 2.09 |
| 90 | 50 | 59.4 | 1.86 |
| 50 | 50 | 57.8 | 1.81 |
| 0 | 50 | 56 | 1.75 |
| 50 | 25 | 52.4 | 1.64 |
| 0 | 25 | 51.5 | 1.61 |

Delta Electronics Inc. All Right Reserved

# Energy Efficiency Report

Drive efficiency according to IEC 61800-9-2

| Efficiency level: | IE2 |
|---|---|

| | |
|---|---|
| Series: | MS300 (IP20 Plate) |
| Model name: | VFD5A5MS43PNSAA |
| Derivative model: | VFD5A5MS43PNSART |

| | | |
|---|---|---|
| Apparent output power | 4.2 | kVA |
| Rated output current | 5.5 | A |
| Rated power output | 2.2 | kW |
| Rated supply voltage | 380-480 | V |
| Rated supply frequency | 50/60 | Hz |
| Standby loss | 8 | W |
| Maximum operating temperature | 50 | °C |

| Frequency (%) | Current (%) | Power loss (W) | Relative Power loss (%) |
|---|---|---|---|
| 90 | 100 | 97.8 | 2.33 |
| 50 | 100 | 92.8 | 2.21 |
| 0 | 100 | 87.8 | 2.09 |
| 90 | 50 | 77.3 | 1.84 |
| 50 | 50 | 75 | 1.78 |
| 0 | 50 | 72.6 | 1.73 |
| 50 | 25 | 67.5 | 1.61 |
| 0 | 25 | 66.3 | 1.58 |

Delta Electronics Inc. All Right Reserved

# Energy Efficiency Report

Drive efficiency according to IEC 61800-9-2

| Efficiency level: | IE2 |
|---|---|

| | |
|---|---|
| Series: | MS300 (IP20 Plate) |
| Model name: | VFD7A3MS43PNSAA |
| Derivative model: | VFD7A3MS43PNSART |

| | | |
|---|---|---|
| Apparent output power | 5.6 | kVA |
| Rated output current | 7.3 | A |
| Rated power output | 3 | kW |
| Rated supply voltage | 380-480 | V |
| Rated supply frequency | 50/60 | Hz |
| Standby loss | 8 | W |
| Maximum operating temperature | 50 | °C |

| Frequency (%) | Current (%) | Power loss (W) | Relative Power loss (%) |
|---|---|---|---|
| 90 | 100 | 128.5 | 2.29 |
| 50 | 100 | 121 | 2.16 |
| 0 | 100 | 113.6 | 2.03 |
| 90 | 50 | 98.2 | 1.75 |
| 50 | 50 | 94.9 | 1.69 |
| 0 | 50 | 91.5 | 1.63 |
| 50 | 25 | 84.1 | 1.5 |
| 0 | 25 | 82.5 | 1.47 |

Delta Electronics Inc. All Right Reserved

# Energy Efficiency Report

Drive efficiency according to IEC 61800-9-2

| Efficiency level: | IE2 |
|---|---|

| | |
|---|---|
| Series: | MS300 (IP20 Plate) |
| Model name: | VFD9A0MS43PNSAA |
| Derivative model: | VFD9A0MS43PNSART |

| | | |
|---|---|---|
| Apparent output power | 6.9 | kVA |
| Rated output current | 9 | A |
| Rated power output | 3.7 | kW |
| Rated supply voltage | 380-480 | V |
| Rated supply frequency | 50/60 | Hz |
| Standby loss | 8 | W |
| Maximum operating temperature | 50 | °C |

| Frequency (%) | Current (%) | Power loss (W) | Relative Power loss (%) |
|---|---|---|---|
| 90 | 100 | 138.1 | 2 |
| 50 | 100 | 131.7 | 1.91 |
| 0 | 100 | 124.4 | 1.8 |
| 90 | 50 | 109 | 1.58 |
| 50 | 50 | 105.9 | 1.53 |
| 0 | 50 | 102.3 | 1.48 |
| 50 | 25 | 94.8 | 1.37 |
| 0 | 25 | 93 | 1.35 |

Delta Electronics Inc. All Right Reserved