

# Energy Efficiency Report

Drive efficiency according to IEC 61800-9-2

Efficiency level:

IE2

Series: **MS300**Model name: **VFD1A6MS11ANSAA**

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

Frequency (%)	Current (%)	Power loss (W)	Relative Power loss (%)
90	100	<b>29.1</b>	<b>4.9</b>
50	100	<b>27.2</b>	<b>4.5</b>
0	100	<b>25</b>	<b>4.2</b>
90	50	<b>26</b>	<b>4.3</b>
50	50	<b>25</b>	<b>4.2</b>
0	50	<b>23.8</b>	<b>4</b>
50	25	<b>24.4</b>	<b>4.1</b>
0	25	<b>23.7</b>	<b>4</b>

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

Frequency (%)	Current (%)	Power loss (W)	Relative Power loss (%)
90	100	<b>29.1</b>	<b>4.9</b>
50	100	<b>27.2</b>	<b>4.5</b>
0	100	<b>25</b>	<b>4.2</b>
90	50	<b>26</b>	<b>4.3</b>
50	50	<b>25</b>	<b>4.2</b>
0	50	<b>23.8</b>	<b>4</b>
50	25	<b>24.4</b>	<b>4.1</b>
0	25	<b>23.7</b>	<b>4</b>



# Energy Efficiency Report

Drive efficiency according to IEC 61800-9-2

**Efficiency level:** **IE2**

Series: **MS300**  
 Model name: **VFD2A5MS11ANSAA**

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

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



# Energy Efficiency Report

Drive efficiency according to IEC 61800-9-2

**Efficiency level:** IE2

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Series: **MS300**

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Model name: **VFD2A5MS11ENSAA**

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

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



# Energy Efficiency Report

Drive efficiency according to IEC 61800-9-2

Efficiency level:

IE2

Series: **MS300**Model name: **VFD4A8MS11ANSAA**

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

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

# Energy Efficiency Report

Drive efficiency according to IEC 61800-9-2

**Efficiency level:** IE2

Series: **MS300**  
 Model name: **VFD4A8MS11ENSAA**

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

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



# Energy Efficiency Report

Drive efficiency according to IEC 61800-9-2

**Efficiency level:** IE2

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Series: **MS300**

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Model name: **VFD1A6MS21ANSAA**

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

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



# Energy Efficiency Report

Drive efficiency according to IEC 61800-9-2

**Efficiency level:** **IE2**

Series: **MS300**  
 Model name: **VFD1A6MS21ENSAA**

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

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





# Energy Efficiency Report

Drive efficiency according to IEC 61800-9-2

Efficiency level:

IE2

Series: **MS300**Model name: **VFD1A6MS21AFSAA**

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

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

# Energy Efficiency Report

Drive efficiency according to IEC 61800-9-2

Efficiency level:

IE2

Series: **MS300**  
 Model name: **VFD1A6MS21EFSAA**

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

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

# Energy Efficiency Report

Drive efficiency according to IEC 61800-9-2

**Efficiency level:** IE2

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Series: **MS300**

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Model name: **VFD2A8MS21ANSAA**

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

Frequency (%)	Current (%)	Power loss (W)	Relative Power loss (%)
90	100	<b>37</b>	<b>3.4</b>
50	100	<b>35.1</b>	<b>3.2</b>
0	100	<b>33</b>	<b>3</b>
90	50	<b>32.7</b>	<b>3</b>
50	50	<b>31.8</b>	<b>2.9</b>
0	50	<b>30.6</b>	<b>2.8</b>
50	25	<b>31.1</b>	<b>2.8</b>
0	25	<b>30.3</b>	<b>2.8</b>



# Energy Efficiency Report

Drive efficiency according to IEC 61800-9-2

Efficiency level:

IE2

Series: **MS300**Model name: **VFD2A8MS21ENSAA**

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

Frequency (%)	Current (%)	Power loss (W)	Relative Power loss (%)
90	100	<b>37</b>	<b>3.4</b>
50	100	<b>35.1</b>	<b>3.2</b>
0	100	<b>33</b>	<b>3</b>
90	50	<b>32.7</b>	<b>3</b>
50	50	<b>31.8</b>	<b>2.9</b>
0	50	<b>30.6</b>	<b>2.8</b>
50	25	<b>31.1</b>	<b>2.8</b>
0	25	<b>30.3</b>	<b>2.8</b>

# Energy Efficiency Report

Drive efficiency according to IEC 61800-9-2

Efficiency level:

IE2

Series: **MS300**Model name: **VFD2A8MS21AFSAA**

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

Frequency (%)	Current (%)	Power loss (W)	Relative Power loss (%)
90	100	<b>38.9</b>	<b>3.5</b>
50	100	<b>36.7</b>	<b>3.3</b>
0	100	<b>34.4</b>	<b>3.1</b>
90	50	<b>34.3</b>	<b>3.1</b>
50	50	<b>33.2</b>	<b>3</b>
0	50	<b>32</b>	<b>2.9</b>
50	25	<b>32.5</b>	<b>3</b>
0	25	<b>31.8</b>	<b>2.9</b>

# Energy Efficiency Report

Drive efficiency according to IEC 61800-9-2

**Efficiency level:** IE2

Series: **MS300**  
 Model name: **VFD2A8MS21EFSAA**

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

Frequency (%)	Current (%)	Power loss (W)	Relative Power loss (%)
90	100	<b>38.9</b>	<b>3.5</b>
50	100	<b>36.7</b>	<b>3.3</b>
0	100	<b>34.4</b>	<b>3.1</b>
90	50	<b>34.3</b>	<b>3.1</b>
50	50	<b>33.2</b>	<b>3</b>
0	50	<b>32</b>	<b>2.9</b>
50	25	<b>32.5</b>	<b>3</b>
0	25	<b>31.8</b>	<b>2.9</b>



# Energy Efficiency Report

Drive efficiency according to IEC 61800-9-2

**Efficiency level:** IE2

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Series: **MS300**

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Model name: **VFD4A8MS21ANSAA**

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

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



# Energy Efficiency Report

Drive efficiency according to IEC 61800-9-2

Efficiency level:

IE2

Series: **MS300**  
 Model name: **VFD4A8MS21ENSAA**

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

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



# Energy Efficiency Report

Drive efficiency according to IEC 61800-9-2

**Efficiency level:** IE2

Series: **MS300**  
 Model name: **VFD4A8MS21AFSAA**

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

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



# Energy Efficiency Report

Drive efficiency according to IEC 61800-9-2

**Efficiency level:** IE2

Series: **MS300**  
 Model name: **VFD4A8MS21EFSAA**

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

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



# Energy Efficiency Report

Drive efficiency according to IEC 61800-9-2

**Efficiency level:** **IE2**

Series: **MS300**  
 Model name: **VFD7A5MS21ANSAA**

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

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



# Energy Efficiency Report

Drive efficiency according to IEC 61800-9-2

Efficiency level:

IE2

Series: **MS300**

Model name: **VFD7A5MS21ENSAA**

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

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



# Energy Efficiency Report

Drive efficiency according to IEC 61800-9-2

Efficiency level:

IE2

Series: **MS300**Model name: **VFD7A5MS21AFSAA**

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

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

# Energy Efficiency Report

Drive efficiency according to IEC 61800-9-2

**Efficiency level:** IE2

Series: **MS300**  
 Model name: **VFD7A5MS21EFSAA**

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

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



# Energy Efficiency Report

Drive efficiency according to IEC 61800-9-2

Efficiency level:

IE2

Series: **MS300**Model name: **VFD11AMS21ANSAA**

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

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

# Energy Efficiency Report

Drive efficiency according to IEC 61800-9-2

**Efficiency level:** IE2

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Series: **MS300**

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Model name: **VFD11AMS21ENSAA**

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

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





# Energy Efficiency Report

Drive efficiency according to IEC 61800-9-2

Efficiency level:

IE2

Series: **MS300**Model name: **VFD11AMS21AFSAA**

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

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

# Energy Efficiency Report

Drive efficiency according to IEC 61800-9-2

**Efficiency level:** IE2

Series: **MS300**  
 Model name: **VFD11AMS21EFSAA**

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

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



# Energy Efficiency Report

Drive efficiency according to IEC 61800-9-2

Efficiency level:

IE2

Series: **MS300**Model name: **VFD1A6MS23ANSAA**

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

Frequency (%)	Current (%)	Power loss (W)	Relative Power loss (%)
90	100	<b>30.9</b>	<b>5.2</b>
50	100	<b>30</b>	<b>5</b>
0	100	<b>29</b>	<b>4.8</b>
90	50	<b>28.7</b>	<b>4.8</b>
50	50	<b>28.2</b>	<b>4.7</b>
0	50	<b>27.6</b>	<b>4.6</b>
50	25	<b>27.8</b>	<b>4.6</b>
0	25	<b>27.4</b>	<b>4.6</b>

# Energy Efficiency Report

Drive efficiency according to IEC 61800-9-2

**Efficiency level:** **IE2**

Series: **MS300**  
 Model name: **VFD1A6MS23ENSAA**

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

Frequency (%)	Current (%)	Power loss (W)	Relative Power loss (%)
90	100	<b>30.9</b>	<b>5.2</b>
50	100	<b>30</b>	<b>5</b>
0	100	<b>29</b>	<b>4.8</b>
90	50	<b>28.7</b>	<b>4.8</b>
50	50	<b>28.2</b>	<b>4.7</b>
0	50	<b>27.6</b>	<b>4.6</b>
50	25	<b>27.8</b>	<b>4.6</b>
0	25	<b>27.4</b>	<b>4.6</b>



# Energy Efficiency Report

Drive efficiency according to IEC 61800-9-2

Efficiency level:

IE2

Series: **MS300**Model name: **VFD2A8MS23ANSAA**

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

Frequency (%)	Current (%)	Power loss (W)	Relative Power loss (%)
90	100	<b>36.8</b>	<b>3.4</b>
50	100	<b>34.9</b>	<b>3.2</b>
0	100	<b>32.8</b>	<b>3</b>
90	50	<b>32.6</b>	<b>3</b>
50	50	<b>31.6</b>	<b>2.9</b>
0	50	<b>30.4</b>	<b>2.8</b>
50	25	<b>31</b>	<b>2.8</b>
0	25	<b>30.2</b>	<b>2.8</b>

# Energy Efficiency Report

Drive efficiency according to IEC 61800-9-2

**Efficiency level:** IE2

Series: **MS300**  
 Model name: **VFD2A8MS23ENSAA**

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

Frequency (%)	Current (%)	Power loss (W)	Relative Power loss (%)
90	100	<b>36.8</b>	<b>3.4</b>
50	100	<b>34.9</b>	<b>3.2</b>
0	100	<b>32.8</b>	<b>3</b>
90	50	<b>32.6</b>	<b>3</b>
50	50	<b>31.6</b>	<b>2.9</b>
0	50	<b>30.4</b>	<b>2.8</b>
50	25	<b>31</b>	<b>2.8</b>
0	25	<b>30.2</b>	<b>2.8</b>



# Energy Efficiency Report

Drive efficiency according to IEC 61800-9-2

Efficiency level:

IE2

Series: **MS300**Model name: **VFD4A8MS23ANSAA**

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

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

# Energy Efficiency Report

Drive efficiency according to IEC 61800-9-2

**Efficiency level:** **IE2**

Series: **MS300**  
 Model name: **VFD4A8MS23ENSAA**

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

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





# Energy Efficiency Report

Drive efficiency according to IEC 61800-9-2

**Efficiency level:** IE2

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Series: **MS300**

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Model name: **VFD7A5MS23ANSAA**

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

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



# Energy Efficiency Report

Drive efficiency according to IEC 61800-9-2

**Efficiency level:** **IE2**

Series: **MS300**  
 Model name: **VFD7A5MS23ENSAA**

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

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



# Energy Efficiency Report

Drive efficiency according to IEC 61800-9-2

**Efficiency level:** IE2

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Series: **MS300**

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Model name: **VFD11AMS23ANSAA**

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

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



# Energy Efficiency Report

Drive efficiency according to IEC 61800-9-2

**Efficiency level:** IE2

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Series: **MS300**

---

Model name: **VFD11AMS23ENSAA**

---

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

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



# Energy Efficiency Report

Drive efficiency according to IEC 61800-9-2

Efficiency level:

IE2

Series: **MS300**Model name: **VFD17AMS23ANSAA**

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

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

# Energy Efficiency Report

Drive efficiency according to IEC 61800-9-2

Efficiency level:

IE2

Series: **MS300**

Model name: **VFD17AMS23ENSAA**

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

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

# Energy Efficiency Report

Drive efficiency according to IEC 61800-9-2

Efficiency level:

IE2

Series: **MS300**Model name: **VFD25AMS23ANSAA**

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

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

# Energy Efficiency Report

Drive efficiency according to IEC 61800-9-2

**Efficiency level:** IE2

Series: **MS300**  
 Model name: **VFD25AMS23ENSAA**

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

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





# Energy Efficiency Report

Drive efficiency according to IEC 61800-9-2

Efficiency level:

IE2

Series: **MS300**Model name: **VFD33AMS23ANSAA**

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

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

# Energy Efficiency Report

Drive efficiency according to IEC 61800-9-2

**Efficiency level:** **IE2**

Series: **MS300**  
 Model name: **VFD33AMS23ENSAA**

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

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



# Energy Efficiency Report

Drive efficiency according to IEC 61800-9-2

**Efficiency level:** **IE2**

Series: **MS300**  
 Model name: **VFD49AMS23ANSAA**

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

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



# Energy Efficiency Report

Drive efficiency according to IEC 61800-9-2

Efficiency level:

IE2

Series: **MS300**Model name: **VFD49AMS23ENSAA**

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

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

# Energy Efficiency Report

Drive efficiency according to IEC 61800-9-2

Efficiency level:

IE2

Series: **MS300**Model name: **VFD65AMS23ANSAA**

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

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

# Energy Efficiency Report

Drive efficiency according to IEC 61800-9-2

**Efficiency level:** IE2

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Series: **MS300**

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Model name: **VFD65AMS23ENSAA**

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

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



# Energy Efficiency Report

Drive efficiency according to IEC 61800-9-2

Efficiency level:

IE2

Series: **MS300**Model name: **VFD1A5MS43ANSAA**

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

Frequency (%)	Current (%)	Power loss (W)	Relative Power loss (%)
90	100	<b>44</b>	<b>4</b>
50	100	<b>43.1</b>	<b>3.9</b>
0	100	<b>42.1</b>	<b>3.8</b>
90	50	<b>41</b>	<b>3.7</b>
50	50	<b>40.5</b>	<b>3.7</b>
0	50	<b>40</b>	<b>3.6</b>
50	25	<b>40.1</b>	<b>3.6</b>
0	25	<b>39.8</b>	<b>3.6</b>

# Energy Efficiency Report

Drive efficiency according to IEC 61800-9-2

**Efficiency level:** **IE2**

Series: **MS300**  
 Model name: **VFD1A5MS43ENSAA**

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

Frequency (%)	Current (%)	Power loss (W)	Relative Power loss (%)
90	100	<b>44</b>	<b>4</b>
50	100	<b>43.1</b>	<b>3.9</b>
0	100	<b>42.1</b>	<b>3.8</b>
90	50	<b>41</b>	<b>3.7</b>
50	50	<b>40.5</b>	<b>3.7</b>
0	50	<b>40</b>	<b>3.6</b>
50	25	<b>40.1</b>	<b>3.6</b>
0	25	<b>39.8</b>	<b>3.6</b>





# Energy Efficiency Report

Drive efficiency according to IEC 61800-9-2

**Efficiency level:** **IE2**

Series: **MS300**  
 Model name: **VFD1A5MS43AFSAA**

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

Frequency (%)	Current (%)	Power loss (W)	Relative Power loss (%)
90	100	<b>45.6</b>	<b>4.2</b>
50	100	<b>44.6</b>	<b>4.1</b>
0	100	<b>43.5</b>	<b>4</b>
90	50	<b>42.5</b>	<b>3.9</b>
50	50	<b>42</b>	<b>3.8</b>
0	50	<b>41.4</b>	<b>3.8</b>
50	25	<b>41.5</b>	<b>3.8</b>
0	25	<b>41.2</b>	<b>3.8</b>



# Energy Efficiency Report

Drive efficiency according to IEC 61800-9-2

**Efficiency level:** **IE2**

Series: **MS300**  
 Model name: **VFD1A5MS43EFSAA**

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

Frequency (%)	Current (%)	Power loss (W)	Relative Power loss (%)
90	100	<b>45.6</b>	<b>4.2</b>
50	100	<b>44.6</b>	<b>4.1</b>
0	100	<b>43.5</b>	<b>4</b>
90	50	<b>42.5</b>	<b>3.9</b>
50	50	<b>42</b>	<b>3.8</b>
0	50	<b>41.4</b>	<b>3.8</b>
50	25	<b>41.5</b>	<b>3.8</b>
0	25	<b>41.2</b>	<b>3.8</b>



# Energy Efficiency Report

Drive efficiency according to IEC 61800-9-2

Efficiency level:

IE2

Series: **MS300**Model name: **VFD2A7MS43ANSAA**

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

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

# Energy Efficiency Report

Drive efficiency according to IEC 61800-9-2

Efficiency level:

IE2

Series: **MS300**Model name: **VFD2A7MS43ENSAA**

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

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

# Energy Efficiency Report

Drive efficiency according to IEC 61800-9-2

**Efficiency level:** **IE2**

Series: **MS300**  
 Model name: **VFD2A7MS43AFSAA**

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

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



# Energy Efficiency Report

Drive efficiency according to IEC 61800-9-2

Efficiency level:

IE2

Series: **MS300**  
 Model name: **VFD2A7MS43EFSAA**

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

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

# Energy Efficiency Report

Drive efficiency according to IEC 61800-9-2

**Efficiency level:** **IE2**

Series: **MS300**  
 Model name: **VFD4A2MS43ANSAA**

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

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



# Energy Efficiency Report

Drive efficiency according to IEC 61800-9-2

Efficiency level:

IE2

Series: **MS300**Model name: **VFD4A2MS43ENSAA**

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

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



# Energy Efficiency Report

Drive efficiency according to IEC 61800-9-2

Efficiency level:

IE2

Series: **MS300**Model name: **VFD4A2MS43AFSAA**

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

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

# Energy Efficiency Report

Drive efficiency according to IEC 61800-9-2

**Efficiency level:** **IE2**

Series: **MS300**  
 Model name: **VFD4A2MS43EFSAA**

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

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



# Energy Efficiency Report

Drive efficiency according to IEC 61800-9-2

Efficiency level:

IE2

Series: **MS300**Model name: **VFD5A5MS43ANSAA**

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

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

# Energy Efficiency Report

Drive efficiency according to IEC 61800-9-2

Efficiency level:

IE2

Series: **MS300**  
 Model name: **VFD5A5MS43ENSAA**

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

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

# Energy Efficiency Report

Drive efficiency according to IEC 61800-9-2

Efficiency level:

IE2

Series: **MS300**Model name: **VFD5A5MS43AFSAA**

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

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



# Energy Efficiency Report

Drive efficiency according to IEC 61800-9-2

**Efficiency level:** **IE2**

Series: **MS300**  
 Model name: **VFD5A5MS43EFSAA**

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

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



# Energy Efficiency Report

Drive efficiency according to IEC 61800-9-2

Efficiency level:

IE2

Series: **MS300**Model name: **VFD7A3MS43ANSAA**

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

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

# Energy Efficiency Report

Drive efficiency according to IEC 61800-9-2

**Efficiency level:** IE2

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Series: **MS300**

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Model name: **VFD7A3MS43ENSAA**

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

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





# Energy Efficiency Report

Drive efficiency according to IEC 61800-9-2

**Efficiency level:** **IE2**

Series: **MS300**  
 Model name: **VFD7A3MS43AFSAA**

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

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



# Energy Efficiency Report

Drive efficiency according to IEC 61800-9-2

**Efficiency level:** **IE2**

Series: **MS300**  
 Model name: **VFD7A3MS43EFSAA**

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

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



# Energy Efficiency Report

Drive efficiency according to IEC 61800-9-2

**Efficiency level:** **IE2**

Series: **MS300**  
 Model name: **VFD9A0MS43ANSAA**

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

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



# Energy Efficiency Report

Drive efficiency according to IEC 61800-9-2

**Efficiency level:** IE2

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Series: **MS300**

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Model name: **VFD9A0MS43ENSAA**

---

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

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



# Energy Efficiency Report

Drive efficiency according to IEC 61800-9-2

Efficiency level:

IE2

Series: **MS300**Model name: **VFD9A0MS43AFSAA**

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

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

# Energy Efficiency Report

Drive efficiency according to IEC 61800-9-2

**Efficiency level:** IE2

Series: **MS300**  
 Model name: **VFD9A0MS43EFSAA**

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

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



# Energy Efficiency Report

Drive efficiency according to IEC 61800-9-2

**Efficiency level:** IE2

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Series: **MS300**

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Model name: **VFD13AMS43ANSAA**

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

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



# Energy Efficiency Report

Drive efficiency according to IEC 61800-9-2

Efficiency level:

IE2

Series: **MS300**Model name: **VFD13AMS43ENSAA**

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

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



# Energy Efficiency Report

Drive efficiency according to IEC 61800-9-2

Efficiency level:

IE2

Series: **MS300**Model name: **VFD13AMS43AFSAA**

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

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

# Energy Efficiency Report

Drive efficiency according to IEC 61800-9-2

Efficiency level:

IE2

Series: **MS300**  
 Model name: **VFD13AMS43EFSAA**

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

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

# Energy Efficiency Report

Drive efficiency according to IEC 61800-9-2

Efficiency level:

IE2

Series: **MS300**Model name: **VFD17AMS43ANSAA**

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

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

# Energy Efficiency Report

Drive efficiency according to IEC 61800-9-2

Efficiency level:

IE2

Series:	<b>MS300</b>
Model name:	<b>VFD17AMS43ENSAA</b>

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

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



# Energy Efficiency Report

Drive efficiency according to IEC 61800-9-2

**Efficiency level:** IE2

Series: **MS300**  
 Model name: **VFD17AMS43AFSAA**

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

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



# Energy Efficiency Report

Drive efficiency according to IEC 61800-9-2

**Efficiency level:** IE2

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Series: **MS300**

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Model name: **VFD17AMS43EFSAA**

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

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



# Energy Efficiency Report

Drive efficiency according to IEC 61800-9-2

Efficiency level:

IE2

Series: **MS300**Model name: **VFD25AMS43ANSAA**

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

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

# Energy Efficiency Report

Drive efficiency according to IEC 61800-9-2

**Efficiency level:** IE2

Series: **MS300**  
 Model name: **VFD25AMS43ENSAA**

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

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





# Energy Efficiency Report

Drive efficiency according to IEC 61800-9-2

Efficiency level:

IE2

Series: **MS300**Model name: **VFD25AMS43AFSAA**

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

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

# Energy Efficiency Report

Drive efficiency according to IEC 61800-9-2

Efficiency level:

IE2

Series: **MS300**  
 Model name: **VFD25AMS43EFSAA**

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

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

# Energy Efficiency Report

Drive efficiency according to IEC 61800-9-2

Efficiency level:

IE2

Series:	<b>MS300</b>
Model name:	<b>VFD32AMS43ANSAA</b>

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

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



# Energy Efficiency Report

Drive efficiency according to IEC 61800-9-2

**Efficiency level:** IE2

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Series: **MS300**

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Model name: **VFD32AMS43ENSAA**

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

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



# Energy Efficiency Report

Drive efficiency according to IEC 61800-9-2

Efficiency level:

IE2

Series: **MS300**Model name: **VFD32AMS43AFSAA**

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

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

# Energy Efficiency Report

Drive efficiency according to IEC 61800-9-2

Efficiency level:

IE2

Series: **MS300**  
 Model name: **VFD32AMS43EFSAA**

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

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

# Energy Efficiency Report

Drive efficiency according to IEC 61800-9-2

**Efficiency level:** **IE2**

Series: **MS300**  
 Model name: **VFD38AMS43ANSAA**

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

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



# Energy Efficiency Report

Drive efficiency according to IEC 61800-9-2

Efficiency level:

IE2

Series: **MS300**Model name: **VFD38AMS43ENSAA**

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

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



# Energy Efficiency Report

Drive efficiency according to IEC 61800-9-2

**Efficiency level:** **IE2**

Series: **MS300**  
 Model name: **VFD38AMS43AFSAA**

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

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



# Energy Efficiency Report

Drive efficiency according to IEC 61800-9-2

**Efficiency level:** IE2

Series: **MS300**  
 Model name: **VFD38AMS43EFSAA**

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

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



# Energy Efficiency Report

Drive efficiency according to IEC 61800-9-2

Efficiency level:

IE2

Series: **MS300**Model name: **VFD45AMS43ANSAA**

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

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

# Energy Efficiency Report

Drive efficiency according to IEC 61800-9-2

Efficiency level:

IE2

Series: **MS300**  
 Model name: **VFD45AMS43ENSAA**

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

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

# Energy Efficiency Report

Drive efficiency according to IEC 61800-9-2

**Efficiency level:** IE2

Series:	<b>MS300</b>
Model name:	<b>VFD45AMS43AFSAA</b>

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

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



# Energy Efficiency Report

Drive efficiency according to IEC 61800-9-2

**Efficiency level:** IE2

Series: **MS300**  
 Model name: **VFD45AMS43EFSAA**

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

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



# Energy Efficiency Report

Drive efficiency according to IEC 61800-9-2

**Efficiency level:** IE2

Series:	<b>MS300 (IP20 Plate)</b>
Model name:	<b>VFD2A7MS43PNSAA</b>
Derivative model:	<b>VFD2A7MS43PNSART</b>

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

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



# Energy Efficiency Report

Drive efficiency according to IEC 61800-9-2

Efficiency level:

**IE2**

Series:	<b>MS300 (IP20 Plate)</b>
Model name:	<b>VFD4A2MS43PNSAA</b>
Derivative model:	<b>VFD4A2MS43PNSART</b>

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

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



# Energy Efficiency Report

Drive efficiency according to IEC 61800-9-2

Efficiency level:

**IE2**

Series:	<b>MS300 (IP20 Plate)</b>
Model name:	<b>VFD5A5MS43PNSAA</b>
Derivative model:	<b>VFD5A5MS43PNSART</b>

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

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

# 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



# Energy Efficiency Report

Drive efficiency according to IEC 61800-9-2

**Efficiency level:** IE2

Series:	<b>MS300 (IP20 Plate)</b>
Model name:	<b>VFD9A0MS43PNSAA</b>
Derivative model:	<b>VFD9A0MS43PNSART</b>

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

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

