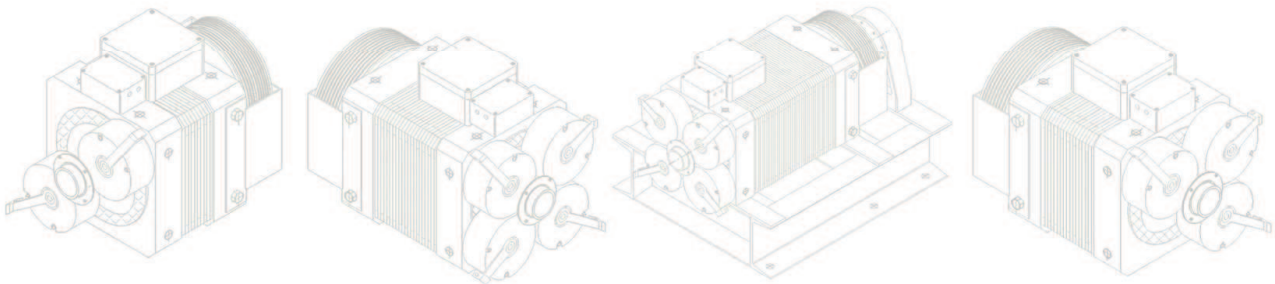




EDAM PMSM TECHNOLOGY SDN BHD



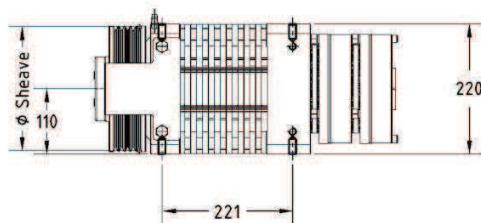
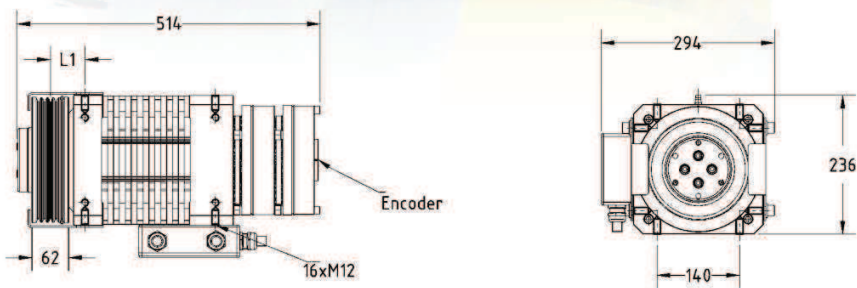
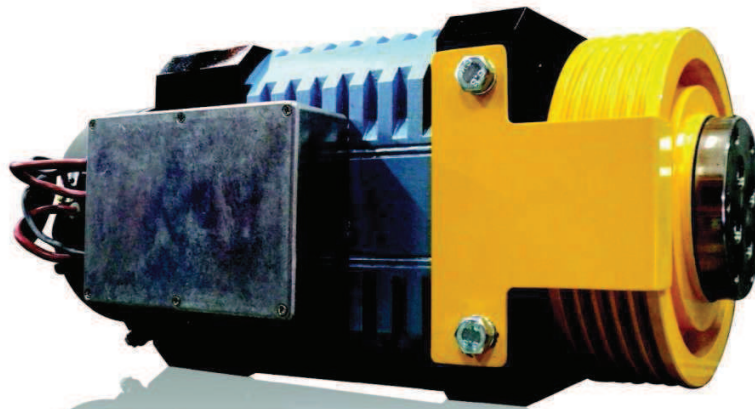


## INTRODUCTION

EDAM PMSM TECHNOLOGY SDN BHD designs, develops, and manufactures gearless PMSM (Permanent Magnet Synchronous Motor) traction machine. As part of a large elevator group in Malaysia, EDAM PMSM machines have been specifically designed, developed, tested and integrated to multiple elevator configurations. In addition, EDAM PMSM machines have been installed worldwide. Rooted in German technology and taken to great heights in Malaysia, EDAM PMSM consistently delivers value and quality.

EDAM PMSM machine have a compact design with low operating costs through high energy efficiency, high reliability and superior controllability. The machines were designed to work with elevators to promote excellent energy management and control.

|                                |           |
|--------------------------------|-----------|
| ROPING                         | 2:1       |
| RATED RPM( min <sup>-1</sup> ) | 120 - 180 |
| RATED TORQUE( Nm )             | 240 - 400 |
| MAX. RADIAL FORCE( kN )        | 15        |



| Sheave $\phi$ (mm) | Rope $\phi$ (mm) | Groove No | L1 (mm) | Weight (Max) |
|--------------------|------------------|-----------|---------|--------------|
| $\phi$ 210         | 6                | 6         | 58.5    | 100kg        |
|                    | 6.5              | 6         |         |              |
|                    | 6.7              | 5         |         |              |
| $\phi$ 240         | 6                | 6         | 58.5    |              |
|                    | 6.5              | 6         |         |              |
|                    | 6.7              | 5         |         |              |





## Sizing Table HM150 Series

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| Model           | Rated Load (kg) | Rated Speed (m/s) | Travel (m) | Car Weight (kg) | Sheave Ø (mm) | Groove Type                | Rope Ø x Max. Ropes No. | Pitch (mm) | RPM | Rated Power (kW) | Required Torque (Nm) | Acc. Torque (Nm) | Rated Current (A) | Acc. Current (A) |
|-----------------|-----------------|-------------------|------------|-----------------|---------------|----------------------------|-------------------------|------------|-----|------------------|----------------------|------------------|-------------------|------------------|
| Suspension: 2:1 |                 |                   |            |                 |               |                            |                         |            |     |                  |                      |                  |                   |                  |
| HM150-120       | 225             | 0.63              | 20         | 500             | 210           | V-Groove $\gamma=45^\circ$ | 6.7 x 5                 | 10         | 115 | 1.1              | 88                   | 134              | 4                 | 8                |
| HM150-160       |                 | 0.80              |            |                 |               |                            |                         |            | 146 | 1.3              |                      |                  | 5                 | 9                |
| HM150-180       |                 | 1.00              |            |                 |               |                            |                         |            | 182 | 1.7              |                      |                  | 6                 | 10               |
| HM150-120       | 320             | 0.63              | 20         | 600             | 210           | V-Groove $\gamma=45^\circ$ | 6.7 x 5                 | 10         | 115 | 1.4              | 118                  | 174              | 6                 | 10               |
| HM150-160       |                 | 0.80              |            |                 |               |                            |                         |            | 146 | 1.8              |                      |                  | 7                 | 11               |
| HM150-180       |                 | 1.00              |            |                 |               |                            |                         |            | 182 | 2.5              |                      |                  | 8                 | 13               |
| HM150-120       | 450             | 0.63              | 20         | 700             | 210           | V-Groove $\gamma=45^\circ$ | 6.7 x 5                 | 10         | 115 | 1.9              | 157                  | 225              | 8                 | 12               |
| HM150-160       |                 | 0.80              |            |                 |               |                            |                         |            | 146 | 2.4              |                      |                  | 9                 | 13               |
| HM150-180       |                 | 1.00              |            |                 |               |                            |                         |            | 182 | 3.0              |                      |                  | 11                | 17               |
| HM150-120       | 480             | 0.63              | 20         | 700             | 210           | V-Groove $\gamma=45^\circ$ | 6.7 x 5                 | 10         | 115 | 2.0              | 162                  | 231              | 9                 | 13               |
| HM150-160       |                 | 0.80              |            |                 |               |                            |                         |            | 146 | 2.5              |                      |                  | 10                | 14               |
| HM150-180       |                 | 1.00              |            |                 |               |                            |                         |            | 182 | 3.1              |                      |                  | 12                | 18               |

**Note:**

- \*Subject to change without prior notice.
- \*Hoistway Efficiency: 85 %
- \*Rope Compensation: 0%
- \*Counter Weight Compensation: 50%
- \*Single Wrap,  $\alpha = 180^\circ$

\*Speed/Acceleration: 0.50/0.50 ; 0.80/0.50 ; 1.00/0.60  
(in m/s & m/s<sup>2</sup>)

\*Operation Rating: S3-40%, 180cycle/hour

\*Power supply input: 210V to 240V, 1ph or 3ph, 50Hz  
L+N+E or 3W+E to Inverter

\*Wire rope used:  $\phi 6.7\text{mm} = \text{BRUGG-TSR, 6-19W-IWRC-1960-B-Sz}$

**This product is TUV SUD Certified.  
Certificate No.: TM 032-2010-MLY**

**EDAM PMSM TECHNOLOGY SDN BHD** (Co.No.767679-D)

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Tel : 604 - 390 0875 (Hunting Line ) Fax : 604 - 390 5755 Email : sales@edampmsm.com.my Website : www.edampmsm.com.my

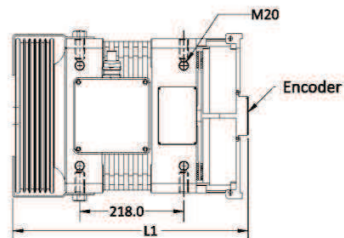
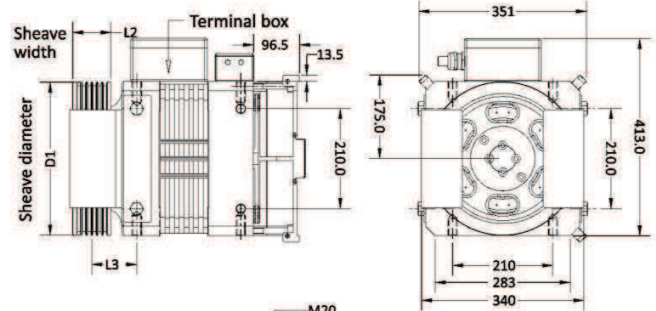
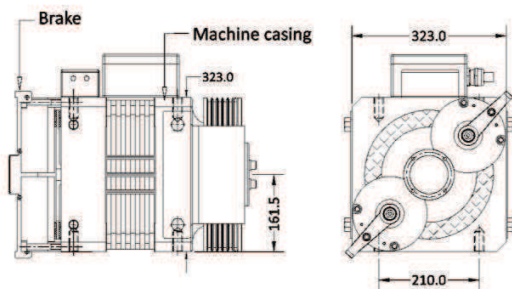
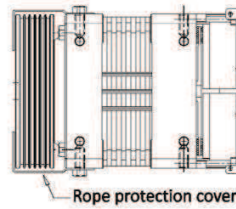
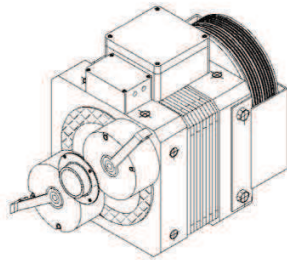
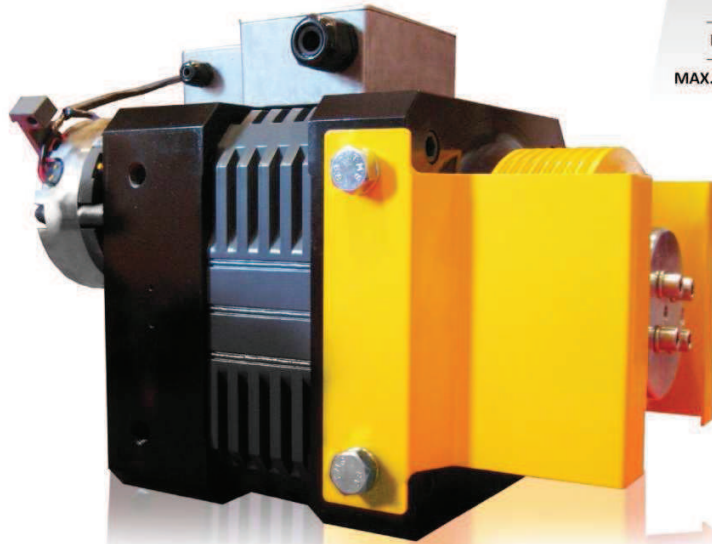
# EDAM

ELEVATOR PMSM TRACTION MACHINE

## CS100

SERIES

|                                |            |
|--------------------------------|------------|
| ROPING                         | 1:1 or 2:1 |
| RATED RPM( min <sup>-1</sup> ) | 60 - 260   |
| RATED TORQUE( Nm )             | 260 - 750  |
| MAX. RADIAL FORCE( kN )        | 35         |



| Motor Type | D1    | L1  | L2  | L3 | Weight (Max) |
|------------|-------|-----|-----|----|--------------|
| 240        | 492.5 | 80  | 94  |    | 240kg        |
|            | 532.5 | 120 | 114 |    |              |
|            | 562.5 | 150 | 132 |    |              |
| 320        | 492.5 | 80  | 94  |    |              |
|            | 532.5 | 120 | 114 |    |              |
|            | 562.5 | 150 | 132 |    |              |
| 410        | 492.5 | 80  | 94  |    |              |
|            | 532.5 | 120 | 114 |    |              |
|            | 562.5 | 150 | 132 |    |              |



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## Sizing Table CS100 Series

| Model             | Rated Load (kg) | Rated Speed (m/s) | Travel (m) | Car Weight (kg) | Sheave Ø (mm) | Groove Type                   | Rope Ø x Max. Ropes No. | Pitch (mm) | RPM | Rated Power (kW) | Required Torque (Nm) | Acc. Torque (Nm) | Rated Current (A) | Acc. Current (A) |
|-------------------|-----------------|-------------------|------------|-----------------|---------------|-------------------------------|-------------------------|------------|-----|------------------|----------------------|------------------|-------------------|------------------|
| Suspension: 2:1   |                 |                   |            |                 |               |                               |                         |            |     |                  |                      |                  |                   |                  |
| CS100-100-VAR15-2 | 450             | 0.63              | 30         | 700             | 240           | V-Groove<br>$\gamma=45^\circ$ | 6.5 x 5                 | 9          | 100 | 2.0              | 188                  | 266              | 8                 | 13               |
| CS100-160-VAR15-2 |                 | 1.00              |            |                 |               |                               |                         |            | 159 | 3.1              | 188                  | 282              | 10                | 17               |
| CS100-260-VAR15-2 |                 | 1.60              | 255        |                 |               |                               |                         |            | 60  | 5.0              | 188                  | 290              | 15                | 26               |
|                   |                 | 4.7               |            | 174             | 284           | 15                            | 26                      |            |     |                  |                      |                  |                   |                  |
| CS100-100-VAR15-2 | 630             | 0.63              | 30         | 800             | 240           | V-Groove<br>$\gamma=45^\circ$ | 6.5 x 5                 | 9          | 100 | 2.6              | 250                  | 345              | 12                | 21               |
| CS100-160-VAR15-2 |                 | 1.00              |            |                 |               |                               |                         |            | 159 | 4.2              | 250                  | 364              | 14                | 29               |
| CS100-260-VAR15-2 |                 | 1.60              | 255        |                 |               |                               |                         |            | 60  | 6.7              | 250                  | 373              | 21                | 40               |
|                   |                 | 6.3               |            | 236             | 368           | 21                            | 40                      |            |     |                  |                      |                  |                   |                  |

Note:

\*Subject to change without prior notice.

\*Hoistway Efficiency : 85 %

\*Rope Compensation : Up to 30 meter = 0%  
Up to 60 meter = 90%

\*Counter Weight Compensation: 50%

\*Single Wrap,  $\alpha = 180^\circ$

\*Speed/Acceleration: 0.63/0.50 ; 1.00/0.60 ; 1.60/0.65  
(in m/s & m/s<sup>2</sup>)

\*Operation Rating: S3-40%, 240cycle/hour

\*Power supply input: 415V, 3ph, 50Hz, 3W+E

\*Wire rope used: DRAKO 250 T 8x19W

| Model             | Rated Load (kg) | Rated Speed (m/s) | Travel (m) | Car Weight (kg) | Sheave Ø (mm) | Groove Type                   | Rope Ø x Max. Ropes No. | Pitch (mm) | RPM | Rated Power (kW) | Required Torque (Nm) | Acc. Torque (Nm) | Rated Current (A) | Acc. Current (A) |
|-------------------|-----------------|-------------------|------------|-----------------|---------------|-------------------------------|-------------------------|------------|-----|------------------|----------------------|------------------|-------------------|------------------|
| Suspension: 2:1   |                 |                   |            |                 |               |                               |                         |            |     |                  |                      |                  |                   |                  |
| CS100-90-VAR15-2  | 450             | 0.63              | 30         | 700             | 320           | V-Groove<br>$\gamma=45^\circ$ | 8 x 4                   | 12         | 75  | 2.0              | 249                  | 353              | 10                | 21               |
| CS100-120-VAR15-2 |                 | 1.00              |            |                 |               |                               |                         |            | 119 | 3.1              | 249                  | 373              | 12                | 22               |
| CS100-210-VAR15-2 |                 | 1.60              | 191        |                 |               |                               |                         |            | 60  | 5.0              | 249                  | 384              | 21                | 44               |
|                   |                 |                   |            |                 |               |                               |                         |            |     | 4.6              | 232                  | 379              | 21                | 44               |
|                   |                 |                   | 1.75       |                 |               |                               |                         |            | 209 | 60               | 5.5                  | 249              | 384               | 21               |
|                   |                 | 5.1               | 232        | 379             | 21            | 44                            |                         |            |     |                  |                      |                  |                   |                  |

Note:

\*Subject to change without prior notice.

\*Hoistway Efficiency: 85 %

\*Rope Compensation: Up to 30 meter = 0%  
Up to 60 meter = 90%

\*Counter Weight Compensation: 50%

\*Single Wrap,  $\alpha = 180^\circ$

\*Speed/Acceleration: 0.63/0.5 , 1.00/0.6 , 1.60/0.65 , 1.75/0.65  
(in m/s & m/s<sup>2</sup>)

\*Operation Rating: S3-40%, 240cycle/hour

\*Power supply input: 415V, 3ph, 50Hz, 3W+E

\*Wire rope used: Type-A (JIS Standard)

**This product is TUV SUD Certified.  
Certificate No.: TM 020-2009-MLY**

**EDAM PMSM TECHNOLOGY SDN BHD** (Co.No.767679-D)

2598, Lorong Perusahaan 10, Prai Industrial Estate, 13600 Prai, Penang, Malaysia.

Tel : 604 - 390 0875 (Hunting Line ) Fax : 604 - 390 5755 Email : sales@edampmsm.com.my Website : www.edampmsm.com.my



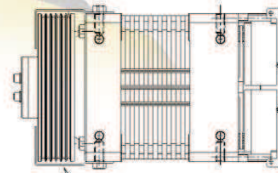
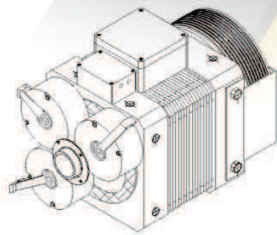
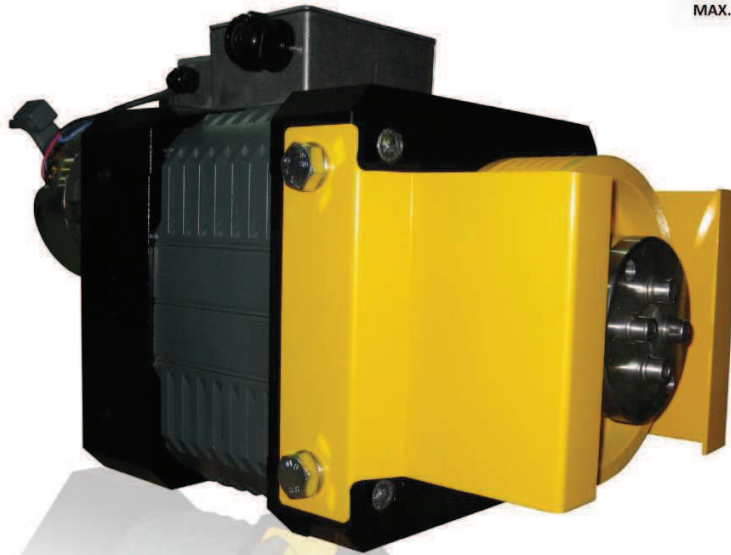
# EDAM

ELEVATOR PMSM TRACTION MACHINE

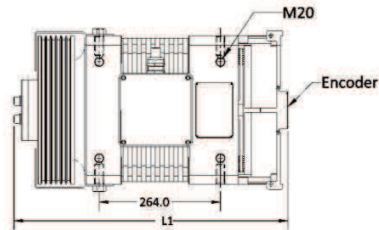
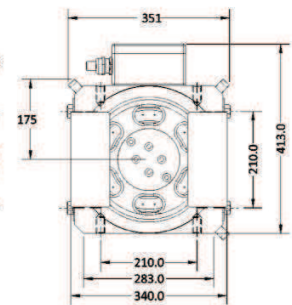
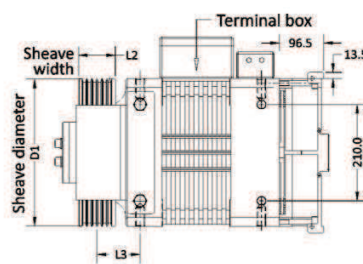
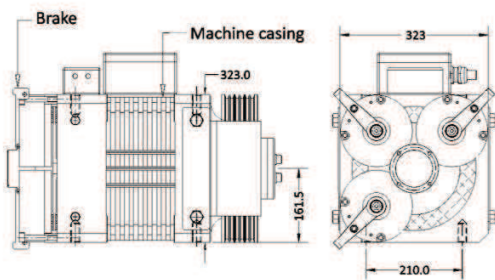
# CS150

SERIES

|                                |            |
|--------------------------------|------------|
| ROPING                         | 1:1 or 2:1 |
| RATED RPM( min <sup>-1</sup> ) | 60 - 260   |
| RATED TORQUE( Nm )             | 400 - 850  |
| MAX. RADIAL FORCE( kN )        | 35         |



Rope protection cover



| Motor Type | D1  | L1  | L2  | L3  | Weight (Max) |
|------------|-----|-----|-----|-----|--------------|
| CS150      | 240 | 596 | 80  | 94  | 290kg        |
|            |     | 636 | 120 | 114 |              |
|            |     | 666 | 150 | 129 |              |
| 320        | 320 | 596 | 80  | 94  |              |
|            |     | 636 | 120 | 114 |              |
|            |     | 666 | 150 | 129 |              |
| 410        | 410 | 596 | 80  | 94  |              |
|            |     | 636 | 120 | 114 |              |
|            |     | 666 | 150 | 129 |              |



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## Sizing Table CS150 Series

| Model             | Rated Load (kg) | Rated Speed (m/s) | Travel (m) | Car Weight (kg) | Sheave Ø (mm) | Groove Type                   | Rope Ø x Max. Ropes No. | Pitch (mm) | RPM | Rated Power (kW) | Required Torque (Nm) | Acc. Torque (Nm) | Rated Current (A) | Acc. Current (A) |
|-------------------|-----------------|-------------------|------------|-----------------|---------------|-------------------------------|-------------------------|------------|-----|------------------|----------------------|------------------|-------------------|------------------|
| Suspension: 2:1   |                 |                   |            |                 |               |                               |                         |            |     |                  |                      |                  |                   |                  |
| CS150-100-VAR15-2 | 800             | 0.63              | 30         | 900             | 240           | V-Groove<br>$\gamma=45^\circ$ | 6.5 x 6                 | 9          | 100 | 3.3              | 315                  | 427              | 12                | 17               |
| CS150-160-VAR15-2 |                 | 1.00              |            |                 |               |                               |                         |            | 159 | 5.3              | 315                  | 449              | 15                | 22               |
| CS150-260-VAR15-2 |                 | 1.60              | 60         |                 |               |                               |                         |            | 255 | 7.9              | 294                  | 450              | 28                | 46               |
| CS150-100-VAR15-3 | 1000            | 0.63              | 30         | 1200            | 240           | V-Groove<br>$\gamma=45^\circ$ | 6.5 x 7                 | 9          | 100 | 4.1              | 391                  | 535              | 15                | 25               |
| CS150-160-VAR15-3 |                 | 1.00              |            |                 |               |                               |                         |            | 159 | 6.5              | 391                  | 564              | 18                | 35               |
| CS150-260-VAR15-3 |                 | 1.60              | 60         |                 |               |                               |                         |            | 255 | 9.7              | 362                  | 562              | 35                | 67               |

Note:

\*Subject to change without prior notice.

\*Hoistway Efficiency: 85 %

\*Rope Compensation: Up to 30 meter = 0%  
Up to 60 meter = 90%

\*Counter Weight Compensation: 50%

\*Single Wrap,  $\alpha = 180^\circ$

\*Speed/Acceleration: 0.63/0.50 ; 1.00/0.60 ; 1.60/0.65  
(in m/s & m/s<sup>2</sup>)

\*Operation Rating: 53-40%, 240cycle/hour

\*Power supply input: 415V, 3ph, 50Hz, 3W+E

\*Wire rope used: DRAKO 250 T 8x19W

| Model             | Rated Load (kg) | Rated Speed (m/s) | Travel (m) | Car Weight (kg) | Sheave Ø (mm) | Groove Type                   | Rope Ø x Max. Ropes No. | Pitch (mm) | RPM | Rated Power (kW) | Required Torque (Nm) | Acc. Torque (Nm) | Rated Current (A) | Acc. Current (A) |
|-------------------|-----------------|-------------------|------------|-----------------|---------------|-------------------------------|-------------------------|------------|-----|------------------|----------------------|------------------|-------------------|------------------|
| Suspension: 2:1   |                 |                   |            |                 |               |                               |                         |            |     |                  |                      |                  |                   |                  |
| CS150-90-VAR15-2  | 630             | 0.63              | 30         | 800             | 320           | V-Groove<br>$\gamma=45^\circ$ | 8 x 5                   | 12         | 75  | 2.7              | 343                  | 469              | 11                | 17               |
| CS150-120-VAR15-2 |                 | 1.00              |            |                 |               |                               |                         |            | 119 | 4.3              | 343                  | 494              | 13                | 20               |
| CS150-210-VAR15-2 |                 | 1.60              | 60         |                 |               |                               |                         |            | 191 | 6.9              | 343                  | 507              | 19                | 35               |
|                   |                 | 1.75              | 30         |                 |               |                               |                         |            | 209 | 7.5              | 343                  | 507              | 19                | 35               |
|                   |                 |                   | 60         |                 |               |                               |                         |            | 6.9 | 313              | 493                  | 19               | 35                |                  |
| CS150-90-VAR15-3  | 800             | 0.63              | 30         | 900             | 320           | V-Groove<br>$\gamma=45^\circ$ | 8 X 5                   | 12         | 75  | 3.3              | 421                  | 569              | 15                | 23               |
| CS150-120-VAR15-3 |                 | 1.00              |            |                 |               |                               |                         |            | 119 | 5.3              | 421                  | 599              | 17                | 28               |

Note:

\*Subject to change without prior notice.

\*Hoistway Efficiency: 85 %

\*Rope Compensation: Up to 30 meter = 0%  
Up to 60 meter = 90%

\*Counter Weight Compensation: 50%

\*Single Wrap,  $\alpha = 180^\circ$

\*Speed/Acceleration: 0.63/0.5 , 1.00/0.6 , 1.60/0.65 , 1.75/0.65  
(in m/s & m/s<sup>2</sup>)

\*Operation Rating: 53-40%, 240cycle/hour

\*Power supply input: 415V, 3ph, 50Hz, 3W+E

\*Wire rope used: Type-A (JIS Standard)

**This product is TUV SUD Certified.  
Certificate No.: TM 021-2009-MLY**

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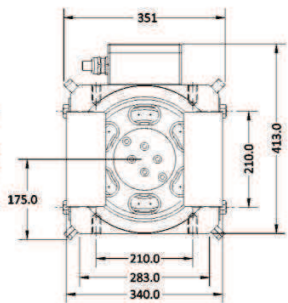
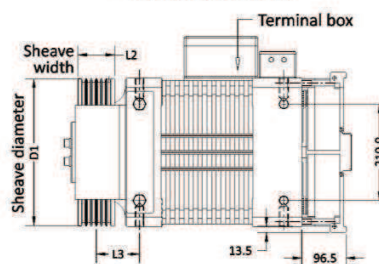
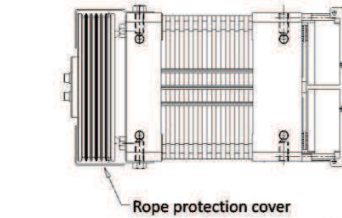
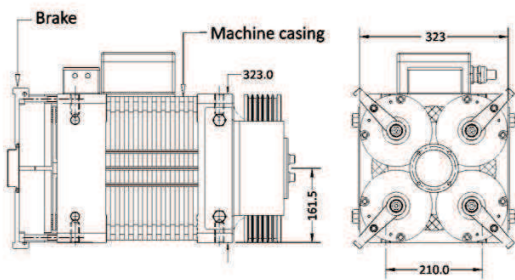
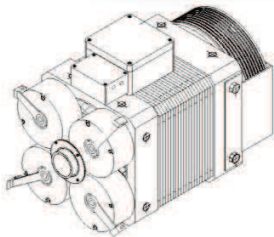
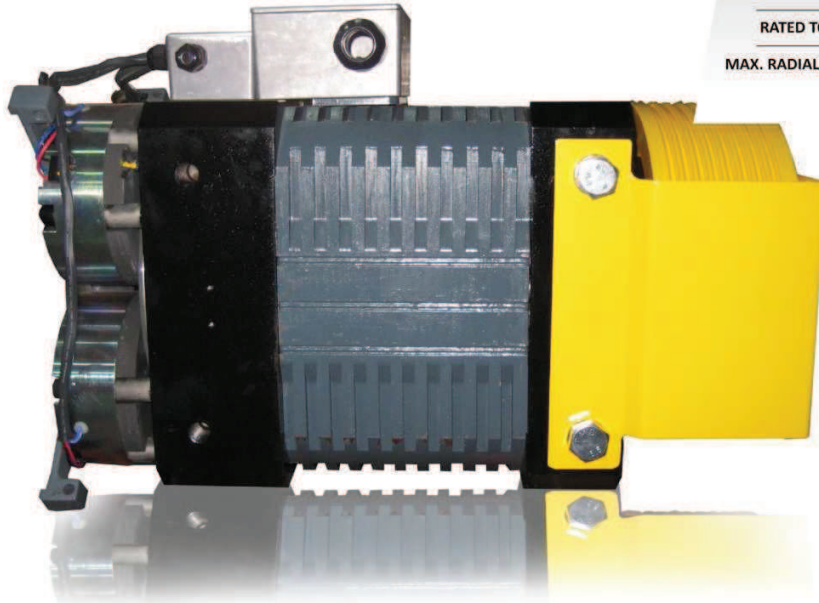
# EDAM

ELEVATOR PMSM TRACTION MACHINE

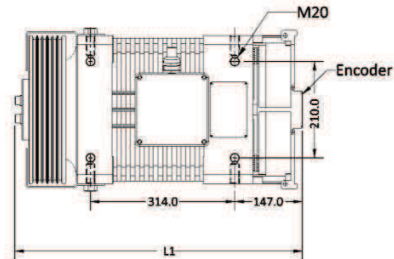
# CS200

SERIES

|                                |            |
|--------------------------------|------------|
| ROPING                         | 1:1 or 2:1 |
| RATED RPM( min <sup>-1</sup> ) | 60 - 240   |
| RATED TORQUE( Nm )             | 650 - 1300 |
| MAX. RADIAL FORCE( kN )        | 35         |



| Motor Type | D1  | L1  | L2  | L3  | Weight (Max) |
|------------|-----|-----|-----|-----|--------------|
| CS200      | 240 | 625 | 80  | 94  | 340kg        |
|            |     | 666 | 120 | 114 |              |
|            |     | 696 | 150 | 129 |              |
| 320        | 320 | 625 | 80  | 94  |              |
|            |     | 666 | 120 | 114 |              |
|            |     | 696 | 150 | 129 |              |
| 410        | 410 | 625 | 80  | 94  |              |
|            |     | 666 | 120 | 114 |              |
|            |     | 696 | 150 | 129 |              |





## Sizing Table CS200 Series

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| Model             | Rated Load (kg) | Rated Speed (m/s) | Travel (m) | Car Weight (kg) | Sheave Ø (mm) | Groove Type                   | Rope Ø x Max. Ropes No. | Pitch (mm) | RPM | Rated Power (kW) | Required Torque (Nm) | Acc. Torque (Nm) | Rated Current (A) | Acc. Current (A) |
|-------------------|-----------------|-------------------|------------|-----------------|---------------|-------------------------------|-------------------------|------------|-----|------------------|----------------------|------------------|-------------------|------------------|
| Suspension: 2:1   |                 |                   |            |                 |               |                               |                         |            |     |                  |                      |                  |                   |                  |
| CS200-210-VAR15-3 | 800             | 1.60              | 30         | 900             | 320           | V-Groove<br>$\gamma=45^\circ$ | 8 x 5                   | 12         | 191 | 8.4              | 421                  | 613              | 25                | 41               |
|                   |                 |                   | 60         |                 |               |                               |                         |            |     | 7.8              | 391                  | 599              | 25                | 41               |
|                   |                 | 1.75              | 30         |                 |               |                               |                         |            | 209 | 9.2              | 421                  | 613              | 25                | 41               |
|                   |                 |                   | 60         |                 |               |                               |                         |            |     | 8.6              | 391                  | 599              | 25                | 41               |
| CS200-90-VAR15-3  | 1000            | 0.63              | 30         | 1200            | 320           | V-Groove<br>$\gamma=45^\circ$ | 8 x 6                   | 12         | 75  | 4.1              | 524                  | 715              | 20                | 35               |
| CS200-120-VAR15-3 |                 | 1.00              |            |                 |               |                               |                         |            | 119 | 6.5              | 524                  | 753              | 21                | 37               |
| CS200-210-VAR15-3 |                 | 1.60              | 60         |                 |               |                               |                         |            | 191 | 10.5             | 524                  | 773              | 33                | 59               |
|                   |                 |                   | 30         |                 |               |                               |                         |            |     | 9.6              | 481                  | 749              | 33                | 59               |
|                   |                 | 1.75              | 60         |                 |               |                               |                         |            | 209 | 11.5             | 524                  | 773              | 33                | 59               |
|                   |                 |                   | 30         |                 |               |                               |                         |            |     | 10.5             | 481                  | 749              | 33                | 59               |
| CS200-90-VAR15-3  | 1200            | 0.63              | 30         | 1400            | 320           | V-Groove<br>$\gamma=45^\circ$ | 8 x 7                   | 12         | 75  | 4.9              | 626                  | 852              | 26                | 43               |
| CS200-120-VAR15-3 |                 | 1.00              |            |                 |               |                               |                         |            | 119 | 7.8              | 626                  | 898              | 28                | 47               |

**Note:**

- \*Subject to change without prior notice.
- \*Hoistway Efficiency: 85 %
- \*Rope Compensation: Up to 30 meter = 0%  
Up to 60 meter = 90%
- \*Counter Weight Compensation: 50%
- \*Single Wrap,  $\alpha = 180^\circ$

- \*Speed/Acceleration: 0.63/0.5 , 1.00/0.6 , 1.60/0.65 , 1.75/0.65  
(in m/s & m/s<sup>2</sup>)
- \*Operation Rating: 53-40%, 240cycle/hour
- \*Power supply input: 415V, 3ph, 50Hz, 3W+E
- \*Wire rope used: Type-A (JIS Standard)

**This product is TUV SUD Certified.  
Certificate No.: TM 022-2009-MLY**

**EDAM PMSM TECHNOLOGY SDN BHD** (Co.No.767679-D)

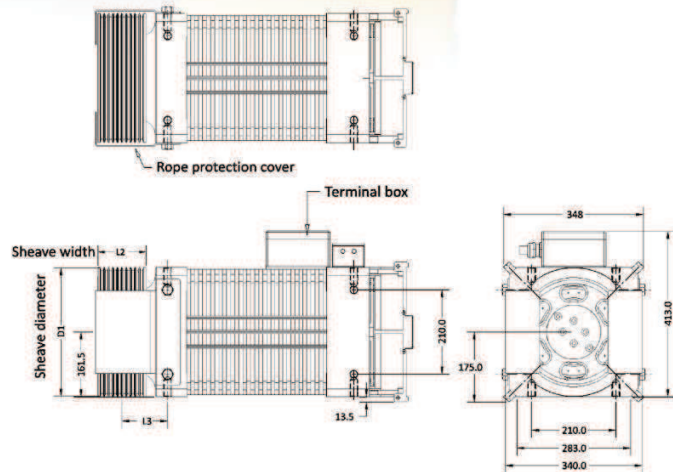
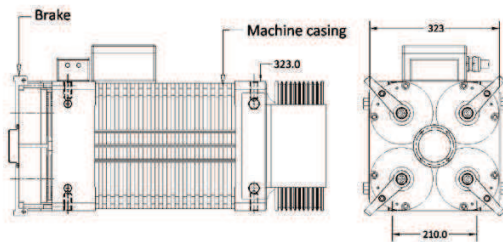
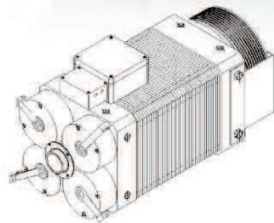
2598, Lorong Perusahaan 10, Prai Industrial Estate, 13600 Prai, Penang, Malaysia.  
Tel : 604 - 390 0875 (Hunting Line ) Fax : 604 - 390 5755 Email : sales@edampmsm.com.my Website : www.edampmsm.com.my

# EDAM

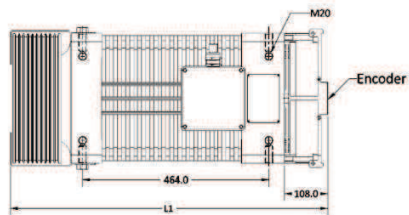
ELEVATOR PMSM TRACTION MACHINE

## CS350 SERIES

|                                |             |
|--------------------------------|-------------|
| ROPING                         | 1:1 or 2:1  |
| RATED RPM( min <sup>-1</sup> ) | 60 - 260    |
| RATED TORQUE( Nm )             | 1000 - 1800 |
| MAX. RADIAL FORCE( kN )        | 35          |



| Motor Type | D1  | L1  | L2  | L3 | Weight (Max) |
|------------|-----|-----|-----|----|--------------|
| 240        | 751 | 80  | 94  |    | 430kg        |
|            | 791 | 120 | 114 |    |              |
|            | 821 | 150 | 129 |    |              |
| 320        | 751 | 80  | 94  |    |              |
|            | 791 | 120 | 114 |    |              |
|            | 821 | 150 | 129 |    |              |
| 410        | 751 | 80  | 94  |    |              |
|            | 791 | 120 | 114 |    |              |
|            | 821 | 150 | 129 |    |              |







## Sizing Table CS350 Series

**EDAM  
WE BRING  
YOU UP**

| Model             | Rated Load (kg) | Rated Speed (m/s) | Travel (m) | Car Weight (kg) | Sheave Ø (mm) | Groove Type                   | Rope Ø x Max. Ropes No. | Pitch (mm) | RPM | Rated Power (kW) | Required Torque (Nm) | Acc. Torque (Nm) | Rated Current (A) | Acc. Current (A) |    |
|-------------------|-----------------|-------------------|------------|-----------------|---------------|-------------------------------|-------------------------|------------|-----|------------------|----------------------|------------------|-------------------|------------------|----|
| Suspension: 2:1   |                 |                   |            |                 |               |                               |                         |            |     |                  |                      |                  |                   |                  |    |
| CS350-210-VAR15-3 | 1200            | 1.60              | 30         | 1400            | 320           | V-Groove<br>$\gamma=45^\circ$ | 8 x 7                   | 12         | 191 | 12.5             | 626                  | 920              | 36                | 57               |    |
|                   |                 |                   | 60         |                 |               |                               |                         |            |     | 11.4             | 572                  | 887              | 36                | 57               |    |
|                   |                 | 1.75              | 30         |                 |               |                               |                         |            | 209 | 13.7             | 626                  | 920              | 36                | 57               |    |
|                   |                 |                   | 60         |                 |               |                               |                         |            |     | 12.5             | 572                  | 887              | 36                | 57               |    |
| CS350-90-VAR15-4  | 1350            | 0.63              | 30         | 1500            | 320           | V-Groove<br>$\gamma=45^\circ$ | 8 x 8                   | 12         | 75  | 5.5              | 706                  | 953              | 16                | 23               |    |
| CS350-120-VAR15-4 |                 | 1.00              |            |                 |               |                               |                         |            | 119 | 8.8              | 706                  | 1003             | 28                | 43               |    |
| CS350-210-VAR15-4 |                 | 1.60              |            |                 |               |                               |                         |            | 60  | 191              | 14.1                 | 706              | 1027              | 41               | 66 |
|                   |                 |                   |            |                 |               |                               |                         |            | 30  |                  | 12.8                 | 640              | 985               | 41               | 66 |
|                   | 1.75            | 60                | 209        | 15.5            | 706           | 1027                          | 41                      | 66         |     |                  |                      |                  |                   |                  |    |
|                   | 60              | 14.0              |            | 640             | 985           | 41                            | 66                      |            |     |                  |                      |                  |                   |                  |    |
| CS350-90-VAR15-4  | 1600            | 0.63              | 30         | 1800            | 320           | V-Groove<br>$\gamma=45^\circ$ | 8 x 9                   | 12         | 75  | 6.5              | 832                  | 1126             | 19                | 29               |    |
| CS350-120-VAR15-4 |                 | 1.00              |            |                 |               |                               |                         |            | 119 | 10.4             | 832                  | 1185             | 34                | 54               |    |
| CS350-210-VAR15-4 |                 | 1.60              |            |                 |               |                               |                         |            | 60  | 191              | 16.6                 | 832              | 1214              | 50               | 81 |
|                   |                 |                   |            |                 |               |                               |                         |            | 30  |                  | 15.1                 | 757              | 1163              | 50               | 81 |
|                   | 1.75            | 60                | 209        | 18.2            | 832           | 1214                          | 50                      | 81         |     |                  |                      |                  |                   |                  |    |
|                   | 60              | 16.6              |            | 757             | 1163          | 50                            | 81                      |            |     |                  |                      |                  |                   |                  |    |

Note:

- \*Subject to change without prior notice.
- \*Hoistway Efficiency: 85 %
- \*Rope Compensation: Up to 30 meter = 0%  
Up to 60 meter = 90%
- \*Counter Weight Compensation: 50%
- \*Single Wrap,  $\alpha = 180^\circ$

- \*Speed/Acceleration: 0.63/0.5 , 1.00/0.6 , 1.60/0.65 , 1.75/0.65 (in m/s & m/s<sup>2</sup>)
- \*Operation Rating: S3-40%, 240cycle/hour
- \*Power supply input: 415V, 3ph, 50Hz, 3W+E
- \*Wire rope used: Type-A (JIS Standard)

| Model                    | Rated Load (kg) | Rated Speed (m/s) | Travel (m) | Car Weight (kg) | Sheave Ø (mm) | Groove Type | Rope Ø x Max. Ropes No. | Pitch (mm) | RPM | Rated Power (kW) | Required Torque (Nm) | Acc. Torque (Nm) | Rated Current (A) | Acc. Current (A) |
|--------------------------|-----------------|-------------------|------------|-----------------|---------------|-------------|-------------------------|------------|-----|------------------|----------------------|------------------|-------------------|------------------|
| Suspension: 2:1          |                 |                   |            |                 |               |             |                         |            |     |                  |                      |                  |                   |                  |
| CS350-180/190-VAR15-3    | 800             | 2.00              | 118.0      | 1400            | 410           | HRU90X30    | 10 X 5                  | 14         | 186 | 10.0             | 514                  | 948              | 27.5              | 53.9             |
| CS350-240-VAR15-3        |                 | 2.50              | 148.0      |                 |               |             |                         |            | 233 | 12.8             | 524                  | 981              | 31.7              | 63.8             |
| CS350-180/190-VAR15-4    | 1000            | 2.00              | 118.0      | 1700            | 410           | HRU90X30    | 10 X 6                  | 14         | 186 | 12.5             | 640                  | 1160             | 34.1              | 71.1             |
| CS350-240-VAR15-4        |                 | 2.50              | 148.0      |                 |               |             |                         |            | 233 | 15.9             | 653                  | 1198             | 39.5              | 84.0             |
| CS350-180/190-VAR09-1200 | 1200            | 2.00              | 118.0      | 1900            | 410           | HRU90X30    | 10 X 7                  | 14         | 186 | 14.9             | 767                  | 1362             | 42.0              | 95.7             |
| CS350-240-VAR09-1200     |                 | 2.50              | 148.0      |                 |               |             |                         |            | 233 | 19.1             | 781                  | 1406             | 47.7              | 129.2            |

Note:

- \*Subject to change without prior notice.
- \*Hoistway Efficiency: 85 %
- \*Rope Compensation: 90%
- \*Counter Weight Compensation: 50%
- \*Single Wrap,  $\alpha = 180^\circ$

- \*Speed/Acceleration: 2.00 / 0.7 , 2.50 / 0.7 (in m/s & m/s<sup>2</sup>)
- \*Operation Rating: S3-40%, 240cycle/hour
- \*Power supply input: 415V, 3ph, 50Hz, 3W+E
- \*Wire rope used: Type-A (JIS Standard)

**This product is TUV SUD Certified.  
Certificate No.: TM 023-2009-MLY**

**EDAM PMSM TECHNOLOGY SDN BHD** (Co.No.767679-D)

2598, Lorong Perusahaan 10, Prai Industrial Estate, 13600 Prai, Penang, Malaysia.

Tel : 604 - 390 0875 (Hunting Line ) Fax : 604 - 390 5755 Email : sales@edampmsm.com.my Website : www.edampmsm.com.my



**CERTIFICATE**  
Examination of Conformity

**Certificate no.:** TM 031-2010-MLY

**Certification body:** TÜV SÜD Industrie Service GmbH  
Zertifizierungsstelle für Produkte der Elektrotechnik  
Wolfratshausen 159  
80988 München - Germany

**Applicant:** EDAM PRIMA TECHNOLOGY SDN BHD  
2308, Lorong Perumahan 16, Pta Industrial Estate  
13000 Prai, Penang, Malaysia

**Date of application:** 2010-02-05

**Manufacturer:** EDAM PRIMA TECHNOLOGY SDN BHD  
2308, Lorong Perumahan 16, Pta Industrial Estate  
13000 Prai, Penang, Malaysia

**Product:** Traction machine for lifts

**Type:** H40 200-208

**Test laboratory:** TÜV SÜD Industrie Service GmbH  
Prüfungsanstalt für Produkte der Elektrotechnik  
Wolfratshausen 159  
80988 München - Germany

**Date and number of test report:** 2010-02-27  
TM 031-2010-MLY

**Specifications:**  
- Directive 95 / 16 / EC - Annex I  
- Standard EN 618-1:2009

**Statement:** The traction machine fulfils the safety requirements of the report. This statement is valid as long as the traction machine are in full compliance with the scope of this examination of conformity and there is no change of the requirements in the specifications referring to traction machines.

**Date of issue:** March, 2010-04-28

Certification body for lifts and cranes

*C. Röhmer*  
p. p. Christian Röhmer

0 Prai, Penang, Malaysia

0 Prai, Penang, Malaysia

特种设备型式试验合格证  
2011年10月27日  
发证日期

特种设备型式试验合格证  
(深圳)  
符合GB 2010-11  
GB 618-1-2009

**CERTIFICATE**  
Examination of Conformity

**Certificate no.:** TM 031-2010-MLY

**Certification body:** TÜV SÜD Industrie Service GmbH  
Zertifizierungsstelle für Produkte der Elektrotechnik  
Wolfratshausen 159  
80988 München - Germany

**Applicant:** EDAM PRIMA TECHNOLOGY SDN BHD  
2308, Lorong Perumahan 16, Pta Industrial Estate  
13000 Prai, Penang, Malaysia

**Date of application:** 2010-02-05

**Manufacturer:** EDAM PRIMA TECHNOLOGY SDN BHD  
2308, Lorong Prai  
13000 Prai, Penang

**Product:** Traction machine

**Type:** H40 200-208

**Test laboratory:** TÜV SÜD Industrie Service GmbH  
Wolfratshausen 159  
80988 München - Germany

**Date and number of test report:** 2010-02-27  
TM 031-2010-MLY

**Specifications:**  
- Directive 95 / 16 / EC - Annex I  
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Certification body for lifts and cranes

*C. Röhmer*  
p. p. Christian Röhmer

Industrial Estate, 13000 Prai,

特种设备型式试验合格证  
2011年10月27日  
发证日期

**CERTIFICATE**  
Examination of Conformity

**Certificate no.:** TM 031-2010-MLY

**Certification body:** TÜV SÜD Industrie Service GmbH  
Zertifizierungsstelle für Produkte der Elektrotechnik  
Wolfratshausen 159  
80988 München - Germany

**Applicant:** EDAM PRIMA TECHNOLOGY SDN BHD  
2308, Lorong Perumahan 16, Pta Industrial Estate  
13000 Prai, Penang, Malaysia

**Date of application:** 2010-02-05

**Manufacturer:** EDAM PRIMA TECHNOLOGY SDN BHD  
2308, Lorong Perumahan 16, Pta Industrial Estate  
13000 Prai, Penang, Malaysia

**Product:** Traction machine for lifts

**Type:** CE 410B-240

**Test laboratory:** TÜV SÜD Industrie Service GmbH  
Prüfungsanstalt für Produkte der Elektrotechnik  
Wolfratshausen 159  
80988 München - Germany

**Date and number of test report:** 2010-02-27  
TM 031-2010-MLY

**Specifications:**  
- Directive 95 / 16 / EC - Annex I  
- Standard EN 618-1:2009

**Statement:** The traction machine fulfils the safety requirements of the specifications for the scope of application stated in the test report. This statement is valid as long as the traction machine are in full compliance with the scope of this examination of conformity and there is no change of the requirements in the specifications referring to traction machines.

**Date of issue:** March, 2010-04-28

Certification body for lifts and cranes

*C. Röhmer*  
p. p. Christian Röhmer

Industrial body

*C. Röhmer*  
p. p. Christian Röhmer

**CERTIFICATE**  
Examination of Conformity

**Certificate no.:** TM 031-2010-MLY

**Certification body:** TÜV SÜD Industrie Service GmbH  
Zertifizierungsstelle für Produkte der Elektrotechnik  
Wolfratshausen 159  
80988 München - Germany

**Applicant:** EDAM PRIMA TECHNOLOGY SDN BHD  
2308, Lorong Perumahan 16, Pta Industrial Estate  
13000 Prai, Penang, Malaysia

**Date of application:** 2010-02-05

**Manufacturer:** EDAM PRIMA TECHNOLOGY SDN BHD  
2308, Lorong Perumahan 16, Pta Industrial Estate  
13000 Prai, Penang, Malaysia

**Product:** Traction machine for lifts

**Type:** H4105-180

**Test laboratory:** TÜV SÜD Industrie Service GmbH  
Prüfungsanstalt für Produkte der Elektrotechnik  
Wolfratshausen 159  
80988 München - Germany

**Date and number of test report:** 2010-02-27  
TM 031-2010-MLY

**Specifications:**  
- Directive 95 / 16 / EC - Annex I  
- Standard EN 618-1:2009

**Statement:** The traction machine fulfils the safety requirements of the specifications for the scope of application stated in the test report. This statement is valid as long as the traction machine are in full compliance with the scope of this examination of conformity and there is no change of the requirements in the specifications referring to traction machines.

**Date of issue:** March, 2010-04-28

Certification body for lifts and cranes

*C. Röhmer*  
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Website: [www.edampmsm.com.my](http://www.edampmsm.com.my)