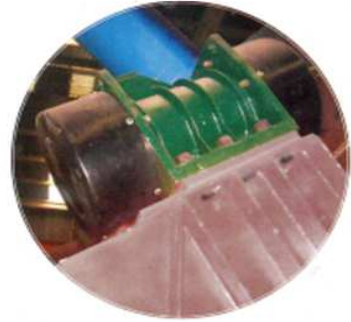


ELSAN ELEKTRİK SAN. ve TİC. A.Ş.



VIBRATION MOTORS

THREE PHASE
SQUIRREL CAGE
TENV (IC410)






Kalite Yönetim Sistemi
TS EN ISO/IEC 170214
AB-0002-YIS

KALİTE YÖNETİM SİSTEMİ BELGESİ

QUALITY MANAGEMENT SYSTEM CERTIFICATE

Partner of



TÜRK STANDARLARI ENSTİTÜSÜ
bu belge ile

ELSAN ELEKTRİK SANAYİ VE TİC. A.Ş.
ETİLER MAH. 1458 SOK. NO:40 ETİMESGUT -
ANKARA / TÜRKİYE

kuruluşunun TS EN ISO 9001:2015 şartlarına uygun bir KALİTE YÖNETİM SİSTEMİNE sahip olduğunu onaylar.

Belge kapsamı Ek'te verilmiştir



TURKISH STANDARDS INSTITUTION
hereby certifies that the organization

ELSAN ELEKTRİK SANAYİ VE TİC. A.Ş.
ETİLER MAH. 1458 SOK. NO:40 ETİMESGUT -
ANKARA / TÜRKİYE

has a QUALITY MANAGEMENT SYSTEM which fulfills the requirements of the TS EN ISO 9001:2015

Scope of the certificate is given in annex

TÜRK STANDARLARI ENSTİTÜSÜ
TURKISH STANDARDS INSTITUTION

SİSTEM BELGELENDİRME GRUP BAŞKANI
HEAD OF SYSTEM CERTIFICATION GROUP



GÖKÇEN BİRCAN DEĞERLİYURT

Türk Standardları Enstitüsü Türk Akreditasyon Kurumu TÜRKAK tarafından akredite edilmiştir.
Turkish Standards Institution, has been accredited by the Turkish Accreditation Agency TÜRKAK.

| | |
|-----------------------------------------------|-------------------|
| Belge No / Certificate No | KY-4285-06/10-R15 |
| Belge Tarihi / Date of Certificate | 28.08.2018 |
| Geçerlilik Tarihi / Valid Until | 15.11.2019 |
| Revizyon Tarihi / Date of Revision | 28.08.2018 |
| İlk Belge Tarihi / Initial Certification Date | 19.01.2006 |

This certificate is valid provided that compliance with the certification requirement is maintained.



Bu belge belgelendirme şartlarına uygunluk sağlandığı sürece geçerlidir.



TÜRK STANDARLARI ENSTİTÜSÜ
TÜRK STANDARLARINA UYGUNLUK BELGESİ
TURKISH STANDARDS INSTITUTION
CERTIFICATE OF CONFORMITY TO TURKISH STANDARDS

Markanın Tanımı

TSE

Description of the Mark

TSE

| | |
|-----------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| BELGE NUMARASI REFERENCE NUMBER OF LICENCE | 000007-TSE-01/01 |
| BELGENİN İLK VERİLİŞ TARİHİ DATE OF FIRST ISSUE OF LICENCE | 12.03.2009 |
| BELGENİN SON GEÇERLİLİK TARİHİ LICENCE VALID UNTIL | 05.03.2020 |
| BELGE SAHİBİ KURULUŞUN ADI NAME OF THE LICENCE HOLDER | ELSAN ELEKTRİK SANAYİ VE TİCARET A.Ş. |
| BELGE SAHİBİ KURULUŞUN ADRESİ ADDRESS OF THE LICENCE HOLDER | ETİLER MH 1458 SK NO:40 ETİMESGUT ANKARA/TÜRKİYE |
| ÜRETİM YERİ ADI NAME OF THE MANUFACTURING PLACE | ELSAN ELEKTRİK SAN. VE TİC. A.Ş. |
| ÜRETİM YERİ ADRESİ ADDRESS OF THE MANUFACTURING PLACE | ETİLER MAH. 12. SOK. NO. 40 ETİMESGUT ANKARA / TÜRKİYE |
| İPTAL EDİLEN BELGE NUMARASI (Varsa) INDICATION OF SUPERSEDED LICENCE (if any) | 14.0.30.4.35.00/TSE-21354 |
| TESCİLLİ TİCARİ MARKASI REGISTERED TRADE MARK | EMTAŞ |
| İLGİLİ TÜRK STANDARDI RELATED TURKISH STANDARD | TS EN 60034-1:2010+AC:2010 / Döner elektrik makineleri - Bölüm 1: Beyan değerleri ve performans / 12.04.2011 |
| BELGE KAPSAMI SCOPE OF LICENCE | ASENKRON ELEKTRİK MOTORLARI ANMA ÇALIŞMA GERİLİMİ: 380 – 420 V ANMA ÇALIŞMA FREKANSI: 50/60 Hz GÜÇ FAKTÖRÜ: 0,40- 0,95 FAZ SAYISI: 3 Fazlı İZOLASYON SINIFI: F veya H ÇALIŞMA TİPİ: S1, S2, S3, S4, S5, S6, S7, S8, S9, S10 KORUMA DERECE: IP66 ya kadar (IP66 dahil) GÜÇ ARALIĞI: 0,08 – 400 kW DEVİR SAYISI: 3000, 1500, 1000, 750, 600, 500, 375, 375/1000, 375/3000, 500/1000, 500/1500, 500/3000, 750/1500, 1000/1500, 1500/3000 d/dak KUTUP SAYISI: 2, 4, 6, 8, 10, 12, 16, 16/6, 16/4, 16/2, 12/6, 12/4, 12/2, 8/4, 6/4, 4/2 |

e-izmlerle signed
08.03.2019

Belgelendirme Merkezi Başkanı Adına
AHMET NURSİ KARTAL

TSE İSTANBUL BELGELENDİRME MÜDÜRÜ

*Bu belge belgelendirilen ürünün üretim yerinin Enstitümüzün belirlediği şartları karşıladığını da gösterir.
*Bu belge hiç bir suretle tahrif edilemez, kısımları veya okunmasını zorlaştırarak şekilde çoğaltılamaz, kopyası ve silinmesi yapılamaz.
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*TSE BELGELENDİRME MERKEZİ BAŞKANLIĞI Adres: Necatibey Cad. No:112 06100 Bakırköy/ANKARA – Tel: 0 312 416 64 81 / 416 64 27, Faks: 0 312 416 66 17
e-posta : bmb@tse.org.tr , web : www.tse.org.tr



1 / 2

TÜRK STANDARLARI ENSTİTÜSÜ



HİZMET YETERLİLİK BELGESİ

| | |
|-----------------------|------------------------------------------------------------------------------|
| Belge No | :06-HYB-134 |
| İlk Veriliş Tarihi | :07.10.1997 |
| Son Geçerlilik Tarihi | :07.10.2019 |
| Firmanın Adı | :ELSAN ELEKTRİK SANAYİ VE TİCARET A.Ş. |
| Firmanın Adresi | :ETİLER MH 1458 SK NO:40 ETİMESGUT-ANKARA/TÜRKİYE |
| Hizmet Yeri Adresi | :ETİLER MAH. 1458 SOK. (ESKİ 12. SOKAK) NO:40 06790 ETİMESGUT ANKARA/TÜRKİYE |
| Sicil No | :17039 |

Verilen Hizmetin Kapsamı

1- TS 12842 (12.06.2013)YETKİLİ SERVİSLER - MOTORLAR (ELEKTRİKLİ) İÇİN - KURALLAR STANDARTINA UYGUN HİZMET YERİ
* ELSAN ELEKTRİK SANAYİ VE TİCARET AŞ. YETKİLİ SERVİSİ (648137)
(EMTAŞ) (ELSAN MOT) MARKALI



Türk Standardları Enstitüsü Hizmet Belgelendirme Yönergesine göre yapılan inceleme neticesinde; firma işyerinin, kapsamında belirlenen, hizmetler için yeterli olduğu tespit edilerek bu belge verildiği.

15.10.2018

KURŞAT BACANLI
ANKARA HİZMET YERİ BELGELENDİRME MÜDÜRÜ

Türk Standardları Enstitüsü Ankara Hizmet Yeri Belgelendirme Müdürlüğü 100. Yıl Bulvarı Cevat Dündar Cad. 1236. Sok. No: 1 D Blok Yenimahalle/ANKARA Telefon: 90 312 5925183 Faks: 90312 5925132



Bu belge hiçbir suretle tahrif edilemez, kısımları veya okunmasını zorlaştırarak şekilde çoğaltılamaz, kopyası ve silinmesi yapılamaz. Sayfa : 1 / 1

GENERAL INFORMATION

EMTAŞ Vibration Motors produce the vibration force with eccentric weights on the shaft of motor. EMTAŞ Vibration Motors provide the reliability and the long working life by means of its design, strong construction and detailed quality controls during all stages of production processes.

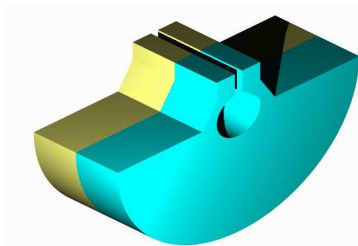
PROPERTIES

- Up to 15 kW input power, up to 18100 kgf centrifugal force
- Long working life, high performance
- Ductile iron frame and end-shields
- High load capability and C4 clearance bearings
- Synthetic resin insulated, F class winding durable for vibration
- Easily adjustable eccentric weights
- Cables durable for vibration
- Weight cowl and seals to prevent the dust and the water from going into the frame (Protection class IP55)
- Standard thermistor protection for 132 type and bigger

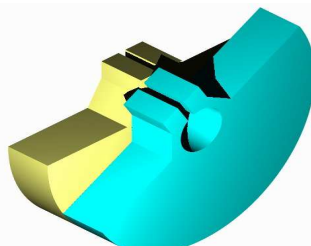
APPLICATIONS

- Conveying processes
Vibrating feedings etc.
- Screening and Dewatering processes
Vibrating screens, strainers, separators
- Compressing and Homogenous processes
Foundry machines, vibration tables for prefabricated concrete elements, molds of concrete beam
- Decompressing and Unloading processes
Storing silos, railway cars, vibrated grills
- Cleaning processes
Filtering plants

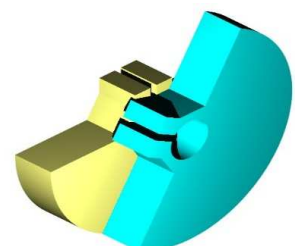
POSITIONS OF ECCENTRIC WEIGHTS



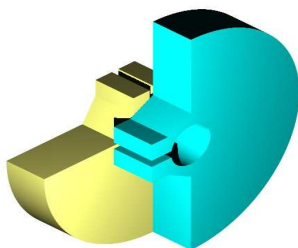
1st POSITION (% 100)



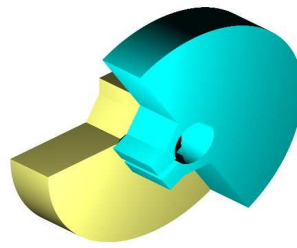
2nd POSITION (% 95)



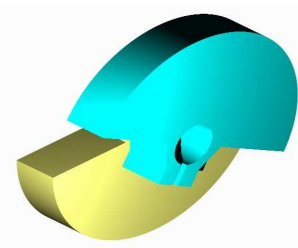
3rd POSITION (% 85)



4th POSITION (% 70)



5th POSITION (% 50)



6th POSITION (% 30)

GUIDE TO SELECTION OF THE VIBRATION MOTORS

| | | | |
|---------------------------------|-------|-----------|------------------------------------------------------------------------------------|
| F = Centrifugal force | [kgf] | | |
| S = Spring deflection | [mm] | F [kgf] = | $\frac{S \text{ [mm]} \times (G \text{ [kgf]} + R \text{ [kgf]})}{C \text{ [mm]}}$ |
| G = Weight of system or machine | [kgf] | | |
| R = Weight of motor(s) | [kgf] | S [mm] = | $\frac{C \text{ [mm]} \times F \text{ [kgf]}}{G \text{ [kgf]} + R \text{ [kgf]}}$ |
| C = Constant according to speed | [mm] | | |

C - Constant according to speed of motor

| | |
|--------------|--------|
| n = 3000 rpm | C=0,23 |
| n = 1500 rpm | C=0,91 |
| n = 1000 rpm | C=2,03 |

Example:

| | |
|--------------------|--------------|
| Spring deflection | S = 0,5 mm |
| Weight of system | G = 250 kgf |
| Weight of motor(s) | R = 26 kgf |
| Speed of motor | n = 3000 rpm |

$$F = \frac{0,5 \times (250+26)}{0,23} = 600 \text{ kgf}$$

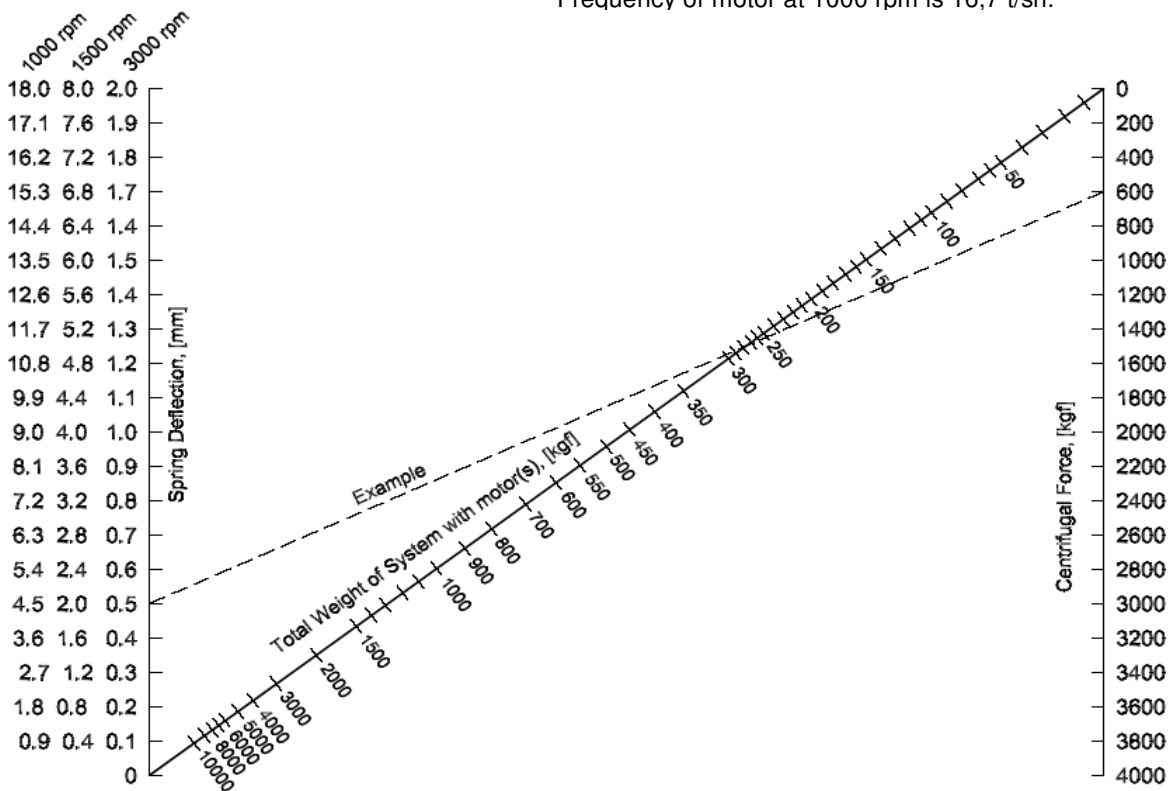
$$S = \frac{0,23 \times 600}{250 + 26} = 0,5 \text{ mm}$$

A system whose the total weight (incl. motor(s)) is 276 kgf will be vibrated with 0,5 mm of the spring deflection at 3000 rpm. Which motor must be use?

The chart below is used for selection of motor.

1. Find and mark the spring deflection on the left side of the chart at 3000 rpm.
2. Find and mark the total weight of system in the middle of the chart.
3. Join the two points with a straight line and lengthen this line to the right side of the chart.
4. Read the total centrifugal force on the right side of the chart.
5. Divide the total centrifugal force by the number of motor.
6. Find the centrifugal force on the table of the performance data.
7. "VEM 80-2-77" will provide the required centrifugal force at 3rd position.

Frequency of motor at 3000 rpm is 50 t/sn,
 Frequency of motor at 1500 rpm is 25 t/sn,
 Frequency of motor at 1000 rpm is 16,7 t/sn.



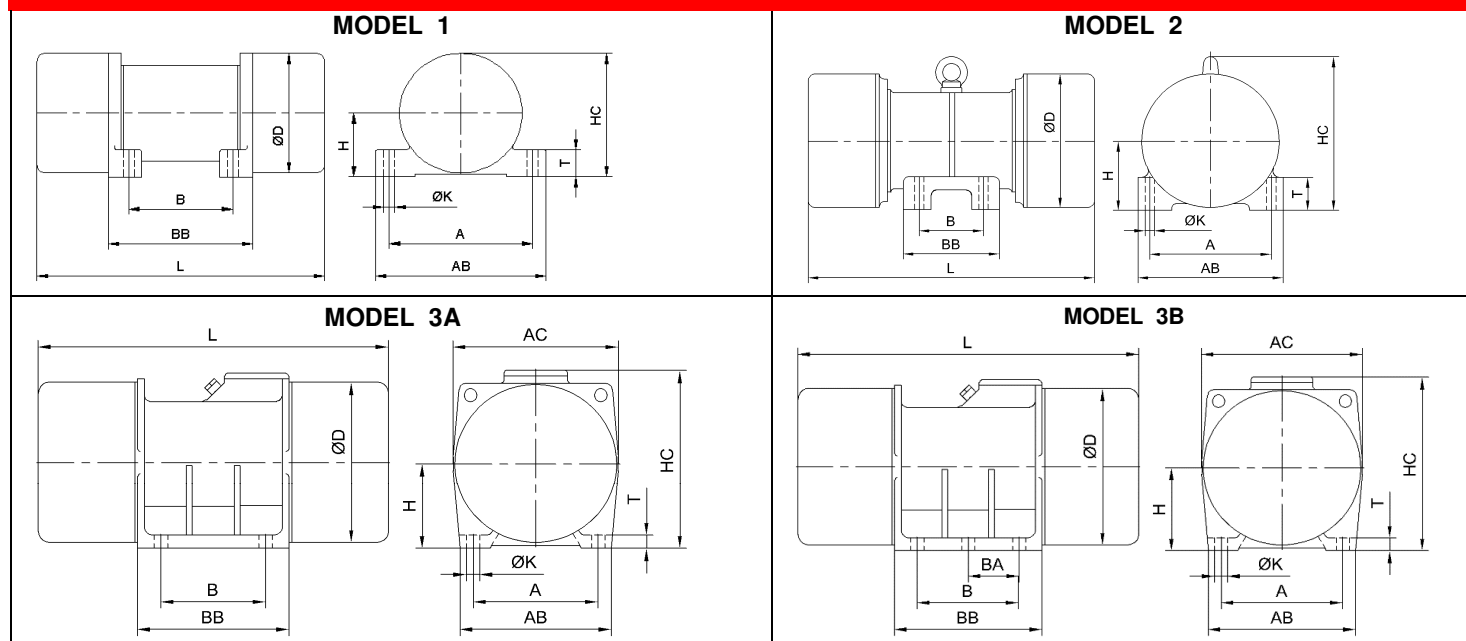
PERFORMANCE DATA

| TYPE | MODEL | Max. % 100 [kgf] | MAX CURR. [A] | RATED INPUT [kW] | STATIC MOMENT [kgmm] | BEARING | WEIGHT OF MOTOR [kg] | CENTRIFUGAL FORCE | | | | | |
|-----------------|-------|------------------------|---------------------|------------------------|----------------------------|---------|-------------------------------|------------------------|--------------------------|--------------------------|--------------------------|--------------------------|-----------------------|
| | | | | | | | | Max. % 100 [kgf] | 2. POS. % 95 [kgf] | 3. POS. % 85 [kgf] | 4. POS. % 70 [kgf] | 5. POS. % 50 [kgf] | Min. % 30 [kgf] |
| 3000 rpm | | 2 POLES | | | | | | 380 V - 50 Hz | | | | | |
| VEMS 80-2-53 | 1 | 533 | 0.89 λ | 0.5 | 53 | 6304 | 18 | 533 | 515 | 462 | 377 | 266 | 138 |
| VEMS 80-2-77 | 2 | 778 | 1.34 λ | 0.7 | 77 | NJ 304 | 27 | 778 | 752 | 674 | 550 | 389 | 201 |
| VEMS 90-2-116 | 2 | 1160 | 2.74 λ | 1.7 | 115 | NJ 2305 | 42 | 1160 | 1120 | 1004 | 820 | 580 | 300 |
| VEMS 112-2-210 | 3 | 2107 | 4.00 Δ | 2 | 209 | NJ 2308 | 70 | 2107 | 2036 | 1825 | 1490 | 1054 | 545 |
| VEMS 132-2-530 | 3 | 5306 | 7.10 Δ | 4 | 527 | NJ 2310 | 123 | 5306 | 5125 | 4595 | 3752 | 2653 | 1373 |
| 1500 rpm | | 4 POLES | | | | | | 380 V - 50 Hz | | | | | |
| VEMS 80-4-29 | 1 | 297 | 0.72 λ | 0.27 | 118 | 6304 | 22 | 297 | 287 | 257 | 210 | 148 | 77 |
| VEMS 80-4-47 | 2 | 478 | 0.97 λ | 0.37 | 190 | 6305 | 33 | 478 | 461 | 414 | 338 | 239 | 124 |
| VEMS 90-4-117 | 2 | 1175 | 1.10 λ | 0.55 | 467 | NJ 2307 | 45 | 1175 | 1135 | 1018 | 831 | 588 | 304 |
| VEMS 90-4-159 | | 1595 | 1.39 λ | 0.75 | 634 | NJ 2307 | 48 | 1595 | 1540 | 1381 | 1128 | 797 | 413 |
| VEMS 90-4-181 | | 1812 | 2.10 λ | 1.1 | 720 | NJ 2307 | 58 | 1812 | 1750 | 1569 | 1281 | 906 | 469 |
| VEMS 100-4-242 | 3 | 2425 | 2.80 λ | 1.5 | 964 | NJ 2308 | 78 | 2425 | 2342 | 2100 | 1714 | 1212 | 628 |
| VEMS 100-4-282 | | 2829 | 3.80 λ | 2 | 1125 | NJ 2308 | 84 | 2829 | 2732 | 2450 | 2000 | 1414 | 732 |
| VEMS 112-4-327 | 3 | 3274 | 4.40 λ | 2.2 | 1302 | NJ 310 | 106 | 3274 | 3162 | 2835 | 2315 | 1637 | 847 |
| VEMS 112-4-413 | | 4133 | 4.70 λ | 2.4 | 1643 | NJ 2311 | 122 | 4133 | 3992 | 3579 | 2923 | 2067 | 1070 |
| VEMS 112-4-456 | | 4563 | 6.20 Δ | 3.2 | 1814 | NJ 2311 | 131 | 4563 | 4408 | 3952 | 3227 | 2282 | 1181 |
| VEMS 132-4-551 | 3 | 5514 | 5.96 Δ | 3.5 | 2192 | NJ 2313 | 166 | 5514 | 5326 | 4775 | 3899 | 2757 | 1427 |
| VEMS 160-4-736 | 3 | 7361 | 10.8 λ | 5.8 | 2927 | NJ 2315 | 260 | 7361 | 7110 | 6375 | 5205 | 3681 | 1905 |
| 1000 rpm | | 6 POLES | | | | | | 380 V - 50 Hz | | | | | |
| VEMS 90-6-108 | 2 | 1082 | 2.32 λ | 1.1 | 968 | NJ 2307 | 64 | 1082 | 1045 | 937 | 765 | 541 | 280 |
| VEMS 112-6-145 | 3 | 1455 | 3.00 λ | 1.5 | 1302 | NJ 310 | 106 | 1455 | 1405 | 1260 | 1029 | 727 | 377 |
| VEMS 112-6-202 | | 2029 | 3.94 λ | 2 | 1815 | NJ 310 | 128 | 2029 | 1960 | 1757 | 1435 | 1015 | 525 |
| VEMS 132-6-359 | 3 | 3590 | 5.00 λ | 2.6 | 3210 | NJ 313 | 184 | 3590 | 3468 | 3109 | 2539 | 1795 | 929 |
| VEMS 132-6-416 | | 4164 | 6.20 Δ | 3.2 | 3725 | NJ 313 | 194 | 4164 | 4022 | 3606 | 2945 | 2082 | 1078 |
| VEMS 160-6-583 | 3 | 5830 | 7.20 Δ | 4 | 5215 | NJ 2314 | 262 | 5830 | 5631 | 5049 | 4122 | 2915 | 1509 |
| VEMS 160-6-705 | | 7054 | 8.55 Δ | 4.5 | 6311 | NJ 2315 | 290 | 7054 | 6814 | 6109 | 4988 | 3527 | 1826 |
| VEMS 160-6-881 | | 8811 | 14.0 Δ | 7.5 | 7882 | NJ 2317 | 398 | 8811 | 8511 | 7631 | 6231 | 4406 | 2281 |
| VEMS 160-6-981 | | 9813 | 17.5 Δ | 8 | 8778 | | 420 | 9813 | 9478 | 8498 | 6939 | 4906 | 2540 |
| VEMS 180-6-130 | 3 | 12700 | 18.1 Δ | 9.2 | 11691 | NJ 2320 | 508 | 12700 | 12267 | 10999 | 8980 | 6350 | 3287 |
| VEMS 180-6-136 | | 13654 | 21.6 Δ | 11 | 12215 | | 525 | 13654 | 13189 | 11825 | 9655 | 6827 | 3534 |
| VEMS 200-6-137 | 3 | 13700 | 21.7 Δ | 11.2 | 12256 | NJ 2320 | 628 | 13700 | 13233 | 11865 | 9687 | 6850 | 3546 |
| VEMS 200-6-153 | | 15300 | 24.7 Δ | 12.5 | 13687 | NJ 2322 | 668 | 15300 | 14779 | 13250 | 10819 | 7650 | 3960 |
| VEMS 200-6-181 | | 18100 | 29.6 Δ | 15 | 16192 | | 741 | 18100 | 17483 | 15675 | 12799 | 9050 | 4685 |
| 600 rpm | | 10 POLES | | | | | | 380 V - 50 Hz | | | | | |
| VEMS 100-10-59 | 1 | 590 | 1.21 | 0.5 | 1467 | 6406 | 69 | 590 | 570 | 511 | 417 | 295 | 153 |

IMPORTANT NOTE:

- Vibrations motors should be started only DOL (direct on line).
- Specifications, dimensions and construction contained in this document are subject to change or to annul at any time without notice.
- Elsan Elektrik Sanayi ve Ticaret A.Ş. assumes no responsibility or liability for any errors or inaccuracies that may appear in this document.

DIMENSIONS



| TYPE | MODEL | RATED INPUT [kW] | A | AB | AC | B | BB | BA | D | H | HC | K | T | L |
|------|-------|------------------|---|----|----|---|----|----|---|---|----|---|---|---|
|------|-------|------------------|---|----|----|---|----|----|---|---|----|---|---|---|

| 3000 rpm | | | 2 POLES | | | | | | 380 V - 50 Hz | | | | | |
|----------------|----|-----|---------|-----|-----|-----|-----|------|---------------|-----|-----|----|----|-----|
| VEMS 80-2-53 | 1 | 0.5 | 180 | 215 | - | 126 | 176 | - | 153 | 95 | 225 | 15 | 45 | 300 |
| VEMS 80-2-77 | 2 | 0.7 | 165 | 200 | - | 85 | 130 | - | 178 | 95 | 225 | 15 | 45 | 340 |
| VEMS 90-2-116 | 2 | 1.7 | 180 | 215 | - | 95 | 137 | - | 203 | 105 | 245 | 17 | 50 | 445 |
| VEMS 112-2-210 | 3A | 2 | 255 | 310 | 300 | 155 | 290 | - | 253 | 130 | 276 | 21 | 25 | 510 |
| VEMS 132-2-530 | 3B | 4 | 230 | 295 | 320 | 165 | 277 | 82.5 | 293 | 155 | 315 | 21 | 30 | 515 |

| 1500 rpm | | | 4 POLES | | | | | | 380 V - 50 Hz | | | | | |
|----------------|----|------|---------|-----|-----|-----|-----|------|---------------|-----|-----|----|----|-----|
| VEMS 80-4-29 | 1 | 0.27 | 180 | 215 | - | 126 | 176 | - | 153 | 95 | 225 | 15 | 45 | 350 |
| VEMS 80-4-47 | 2 | 0.37 | 165 | 200 | - | 85 | 130 | - | 178 | 95 | 225 | 15 | 45 | 420 |
| VEMS 90-4-117 | 2 | 0.55 | 180 | 215 | - | 95 | 137 | - | 203 | 105 | 245 | 17 | 50 | 445 |
| VEMS 90-4-159 | | 0.75 | | | | | | | | | | | | |
| VEMS 90-4-181 | | 1.1 | | | | | | | | | | | | |
| VEMS 100-4-242 | 3A | 1.5 | 225 | 274 | 274 | 155 | 270 | - | 218 | 116 | 265 | 21 | 20 | 560 |
| VEMS 100-4-282 | | 2 | 225 | 274 | 274 | 155 | 270 | - | 218 | 116 | 265 | 21 | 20 | 590 |
| VEMS 112-4-327 | 3A | 2.2 | 225 | 310 | 300 | 155 | 290 | - | 253 | 130 | 276 | 21 | 25 | 560 |
| VEMS 112-4-413 | | 2.4 | | | | | | | | | | | | |
| VEMS 112-4-456 | | 3.2 | | | | | | | | | | | | |
| VEMS 132-4-551 | 3B | 3.5 | 230 | 295 | 320 | 165 | 275 | 82.5 | 293 | 155 | 315 | 21 | 30 | 615 |
| VEMS 160-4-736 | 3B | 5.8 | 320 | 390 | 372 | 200 | 334 | 100 | 348 | 190 | 396 | 28 | 30 | 615 |

| 1000 rpm | | | 6 POLES | | | | | | 380 V - 50 Hz | | | | | |
|----------------|----|------|---------|-----|-----|-----|-----|------|---------------|-----|-----|----|----|-----|
| VEMS 90-6-108 | 2 | 1.1 | 180 | 215 | - | 95 | 137 | - | 203 | 105 | 245 | 17 | 50 | 525 |
| VEMS 112-6-145 | 3A | 1.5 | 255 | 310 | 300 | 155 | 290 | - | 253 | 130 | 276 | 21 | 25 | 560 |
| VEMS 112-6-202 | | 2 | | | | | | | | | | | | 650 |
| VEMS 132-6-359 | 3B | 2.6 | 230 | 295 | 320 | 165 | 277 | 82.5 | 293 | 155 | 315 | 21 | 30 | 695 |
| VEMS 132-6-416 | | 3.2 | | | | | | | | | | | | |
| VEMS 160-6-583 | 3B | 4 | 320 | 390 | 372 | 200 | 334 | 100 | 348 | 190 | 396 | 28 | 30 | 755 |
| VEMS 160-6-705 | | 4.5 | | | | | | | | | | | | 855 |
| VEMS 160-6-881 | | 7.5 | | | | | | | | | | | | 940 |
| VEMS 160-6-981 | | 8 | | | | | | | | | | | | 980 |
| VEMS 180-6-130 | 3B | 9.2 | 380 | 460 | 460 | 250 | 474 | 125 | 433 | 331 | 465 | 37 | 38 | 965 |
| VEMS 180-6-136 | | 11 | | | | | | | | | | | | |
| VEMS 200-6-137 | 3B | 11.2 | 400 | 500 | 500 | 310 | 474 | 155 | 488 | 250 | 515 | 37 | 45 | 905 |
| VEMS 200-6-153 | | 12.5 | | | | | | | | | | | | 945 |
| VEMS 200-6-181 | | 15 | | | | | | | | | | | | 995 |

| 600 rpm | | | 10 POLES | | | | | | 380 V - 50 Hz | | | | | |
|----------------|---|-----|----------|-----|-----|-----|-----|---|---------------|-----|-----|----|----|-----|
| VEMS 100-10-59 | 1 | 0.5 | 226 | 262 | 254 | 118 | 178 | - | 253 | 135 | 262 | 17 | 45 | 430 |

SPECIAL VIBRATION MOTORS WITHOUT ECCENTRIC WEIGHTS

| | |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>VEMS 80-4</p> <p>Rated Output [kW] 0.50 Rated Input [kW] 0.70 Current (380 V) [A] 1.54 Speed [rpm] 1500 Bearing 6204 ZZ Weight [kg] 16</p> | <p>Technical drawings of the VEMS 80-4 motor. The side view shows a total length of 273 mm, with a central shaft diameter of Ø19 mm and mounting flange diameters of 36 mm. The top view shows a circular motor body with a diameter of Ø150 mm and a mounting base diameter of Ø18 mm. The front view shows a total width of 308 mm and a mounting base diameter of Ø153 mm.</p> |
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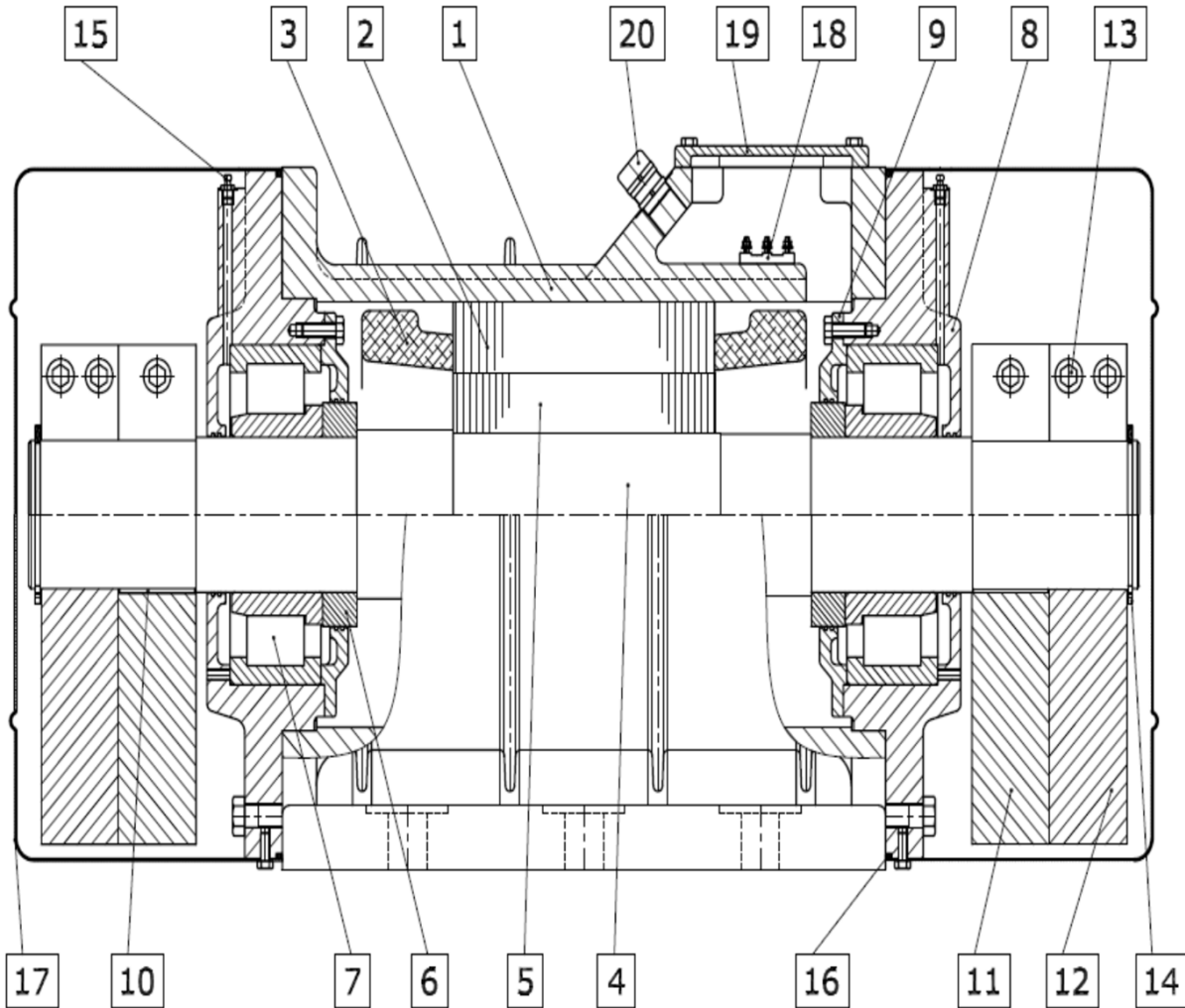
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| <p>VEMS 90/4</p> <p>Rated Output [kW] 0.70 Rated Input [kW] 0.97 Current (380 V) [A] 1.88 Speed [rpm] 1500 Bearing 6306 ZZ Weight [kg] 25</p> | <p>Technical drawings of the VEMS 90/4 motor. The side view shows a total length of 333 mm, with a central shaft diameter of Ø28 mm and mounting flange diameters of 62 mm. The top view shows a circular motor body with a diameter of Ø145 mm and a mounting base diameter of Ø18 mm. The front view shows a total width of 352 mm and a mounting base diameter of Ø220 mm.</p> |
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| <p>VEMS 90-6</p> <p>Rated Output [kW] 0.50 Rated Input [kW] 0.70 Current (380 V) [A] 2.1 Speed [rpm] 1000 Bearing 6306 ZZ Weight [kg] 28</p> | <p>Technical drawings of the VEMS 90-6 motor. The side view shows a total length of 333 mm, with a central shaft diameter of Ø28 mm and mounting flange diameters of 62 mm. The top view shows a circular motor body with a diameter of Ø145 mm and a mounting base diameter of Ø18 mm. The front view shows a total width of 352 mm and a mounting base diameter of Ø220 mm.</p> |
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| <p>VEMS 100-10</p> <p>Rated Output [kW] 0.20 Rated Input [kW] 0.5 Current (380 V) [A] 1.21 Speed [rpm] 600 Bearing 6406 Weight [kg] 31</p> | <p>Technical drawings of the VEMS 100-10 motor. The side view shows a total length of 360 mm, with a central shaft diameter of Ø30 mm and mounting flange diameters of 71.5 mm. The top view shows a circular motor body with a diameter of Ø160 mm and a mounting base diameter of Ø17 mm. The front view shows a total width of 425 mm and a mounting base diameter of Ø253 mm.</p> |
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NOTE: Special vibration motors without eccentric weights are produced without the weight cowls as standard. On request, the weight cowls can be produced.

MOTOR PARTS



| | | | |
|-----------|----------------|-----------|-------------------------------|
| 1 | FRAME | 11 | ECCENTRIC WEIGHT - CONSTANT |
| 2 | STATOR PACK | 12 | ECCENTRIC WEIGHT - ADJUSTABLE |
| 3 | STATOR WINDING | 13 | BOLT |
| 4 | SHAFT | 14 | RETAINING RING |
| 5 | ROTOR PACK | 15 | GREASE NIPEL |
| 6 | BEARING RING | 16 | O-RING |
| 7 | BEARING | 17 | WEIGHTS COWL |
| 8 | END SHIELD | 18 | TERMINAL TABLE |
| 9 | BEARING CAP | 19 | TERMINAL COVER |
| 10 | KEY | 20 | CABLE GLAND |

PRODUCTION PROGRAM

KAT.VEMX.02.18.ENG

STANDART AC / POLE CHANGE MOTOR



SLIP - RING MOTOR



WATER COOLED TBM MOTOR
(Tunnel Boring Machine Motor)



FORKLIFT MOTOR



TRACTION MOTOR



MARINE MOTOR
(Water Cooled)



VIBRATION MOTOR



BRAKE MOTOR



VHS PUMP MOTOR
(Vertical Hollow Shaft Motor)
(VHS)



SYNCHRONOUS MOTOR
(PMSM - IE5)



TORQUE MOTOR



LOW CENTER SAW MOTOR



TOWER CRANE MOTOR



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