



**alimar**<sup>®</sup>

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**AA SERIES ALTERNATOR GROUPS**  
AA SERİSİ ALTERNATÖR GRUPLARI

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## ALİMAR ALTERNATOR

Alimar alternators are specially designed for stand-by and prime applications, long strength and high efficiency industrial alternators. We are manufacturing the industry's top-line alternators with years of the experience

## ALİMAR ALTERNATÖR

Alimar alternatörler Stand-by ve Prime uygulamalarda ihtiyaca özel dizayn edilmiş uzun ömürlü ve yüksek verimli endüstriyel alternatörlerdir. Yılların verdiği deneyim ile sektörün öncü alternatörlerini üretmekteyiz.



## INTERNATIONAL STANDARDS

Alimar alternator produced according to IEC EN 60034 standard. Complies with standards like B55000, VDE0530, NEMA MG1-32, IEC34, CSA C22.2-100, AS1359

## ULUSLARARASI STANDARTLAR

Alimar alternatör IEC EN 60034 standartlarına uygun olarak üretilmiş olup, B55000, VDE0530, NEMA MG1-32, IEC34, CSA C22.2-100, AS1359 gibi uluslararası standartları karşılamaktadır.



## ELECTRICAL DESIGN

- Self excited, brushless
- "H" class insulation
- Low voltage winding
- Optimized performance
- Suitable for 50hz and 60 hz use
- Switchable voltage values
- Electronic AVR
- Interchangeable windings between star or delta connection
- High short circuit current resistance
- Power factor 0,8
- No de-rating up to 1000m and 40°C

## ELEKTRİKSEL DİZAYN

- Kendinden ikazlı, fırçasız
- "H" sınıfı izolasyon
- Düşük Gerilim Sargısı
- Optimize Performans
- 50 Hz ve 60 Hz kullanıma uygun
- Değiştirilebilir voltaj değerleri
- Elektronik AVR
- Yıldız veya üçgen bağlantı arasında değiştirilebilir sargılar
- Yüksek kısa devre akımı dayanımı
- Güç Faktörü 0,8
- 1000m ve 40°C ye kadar güç düşümsüz



## MECHANICAL DESIGN

- Compact desing resistance to vibration of the engine
- Steel frame
- Single bearing design
- Clockwise cycle
- Easy to access AVR and Terminal Box

## MEKANİK DİZAYN

- Motorun titreşimlerine dayanıklı kompakt tasarım
- Çelik kasa
- Tek yataklı tasarım
- Saat yönünde çevrim
- Ulaşımı kolay AVR ve Terminal kutusu



## AA Series / Serisi

THREE PHASE, BRUSHLESS, SYNCHRONOUS ALTERNATOR  
ÜÇ FAZLI, FIRÇASIZ, SENKRON ALTERNATÖR



### AA 404

TECHNICAL DATA SHEET / TEKNİK ÖZELLİKLER

#### 50 Hz, CLASS / SINIF "H"

RATINGS / DEĞERLER	POWER FACTOR / GÜÇ FAKTÖRÜ 0.8													
	CONTINUOUS / SÜREKLİ 40°C						STANDBY 27°C							
DUTY / ÇALIŞMA TİPİ AMBIENT TEMP. / ORTAM SICAKLIĞI														
TEMP RISE / SICAKLIK ARTIŞI	H (125°C)						H (163°C)							
PHASE / FAZ	3 PHASE / FAZ						3 PHASE / FAZ							
SERIES STAR YILDIZ BAĞLANTI	Y	380	400	415	380	400	415	380	400	415	380	400	415	
PARALLEL STAR PARALEL YILDIZ BAĞLANTI	YY	190	200	208	190	200	208	190	200	208	190	200	208	
SERIES DELTA ÜÇGEN BAĞLANTI	Δ	220	230	240	220	230	240	220	230	240	220	230	240	
MODEL	kVA	kW	kVA	kW	kVA	kW	kVA	kW	kVA	kW	kVA	kW	kVA	kW
AA404A	750	600	750	600	750	600	825	660	825	660	825	660	825	660
AA404G	800	640	810	648	800	640	880	704	900	720	900	720	900	720
AA404H	910	728	940	752	910	728	1000	800	1030	824	1030	824	1030	824
AA404J	1000	800	1030	824	1000	800	1100	880	1130	904	1130	904	1130	904
AA404K	1125	900	1125	900	1125	900	1250	1000	1250	1000	1250	1000	1250	1000

#### 60 Hz, CLASS / SINIF "H"

RATINGS / DEĞERLER	POWER FACTOR / GÜÇ FAKTÖRÜ 0.8													
	CONTINUOUS / SÜREKLİ 40°C						STANDBY 27°C							
DUTY / ÇALIŞMA TİPİ AMBIENT TEMP. / ORTAM SICAKLIĞI														
TEMP RISE / SICAKLIK ARTIŞI	H (125°C)						H (163°C)							
PHASE / FAZ	3 PHASE / FAZ						3 PHASE / FAZ							
SERIES STAR YILDIZ BAĞLANTI	Y	416	440	460	416	440	460	416	440	460	416	440	460	
PARALLEL STAR PARALEL YILDIZ BAĞLANTI	YY	208	220	230	208	220	230	208	220	230	208	220	230	
SERIES DELTA ÜÇGEN BAĞLANTI	Δ	240	254	266	240	254	266	240	254	266	240	254	266	
MODEL	kVA	kW	kVA	kW	kVA	kW	kVA	kW	kVA	kW	kVA	kW	kVA	kW
AA404A	800	640	800	640	800	640	880	704	900	720	900	720	900	720
AA404G	875	700	925	740	963	770	960	768	1030	824	1030	824	1030	824
AA404H	1025	820	1063	850	1075	860	1125	900	1200	960	1200	960	1200	960
AA404J	1150	920	1200	960	1250	1000	1250	1000	1320	1056	1320	1056	1320	1056
AA404K	1250	1000	1250	1000	1250	1000	1380	1104	1380	1104	1380	1104	1380	1104

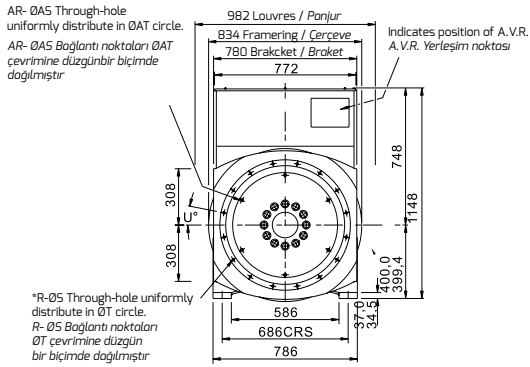
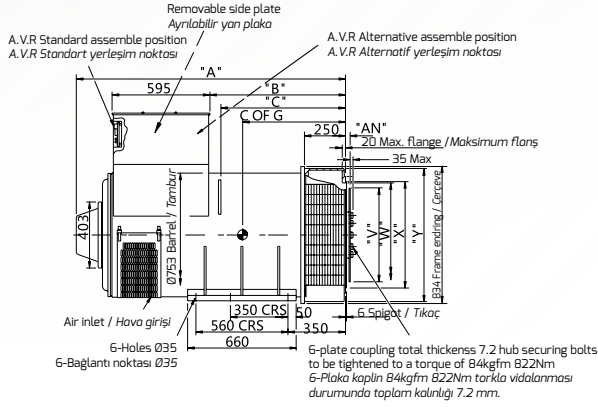
## > Enerjide Çözüm Ortağınız

> Your Solution Partner in Energy

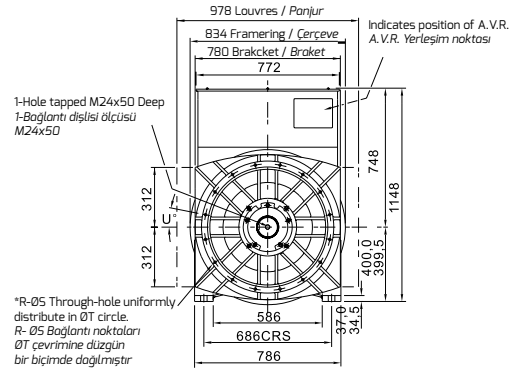
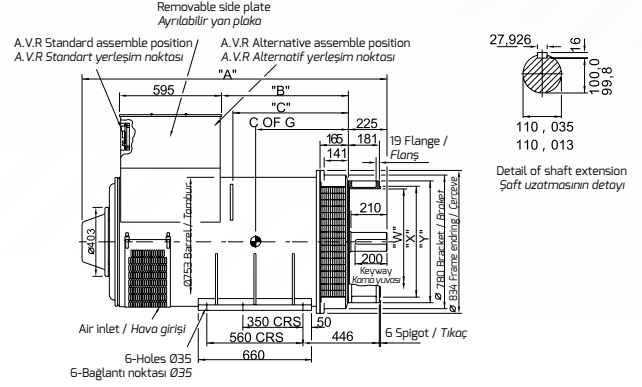
# AA 404

## OVERALL DIMENSIONS / ÖLÇÜLER

### SINGLE BEARING / TEK YATAKLI



### DOUBLE BEARING / ÇİFT YATAKLI



DIMENSIONS / BOYUTLAR (mm)				
Model	A	B	C	C of G
AA404A	1548	725	647	660
AA404G	1548	725	647	680
AA404H	1548	725	647	690
AA404J	1548	725	647	705
AA404K	1649	826	707	730

DIMENSIONS / BOYUTLAR (mm)				
Model	A	B	C	C of G
AA404A	1688	640	562	595
AA404G	1688	640	562	595
AA404H	1688	640	562	605
AA404J	1688	640	562	620
AA404K	1789	741	622	645

FLANGE / FLANŞ (mm)							
S.A.E.NO.	R	S	T	U°	W	X	Y
00	16	14	851.0	11.25	772	787.3	883
0	16	14	679.5	11.25	632	647.6	810
1/2	12	12.7	619.1	15	569	584.1	780
1	12	12.7	530.2	15	469	511.1	780

FLANGE / FLANŞ (mm)							
S.A.E.NO.	R	S	T	U°	W	X	Y
00	16	14	851.0	11.25	772	787.3	883
0	16	14	679.5	11.25	632	647.6	810
1/2	12	12.7	619.1	15	569	584.1	780
1	12	12.7	530.2	15	469	511.1	780

DISC COUPLING / DİSK KAPLIN (mm)					
S.A.E.NO.	AN	AR	AS	AT	V
14	25.40	8	13.5	438.1	466.6
18	15.87	6	16.7	543.0	571.4
21	0	12	16.7	641.3	673.0
24	0	12	20.7	692.0	733.3

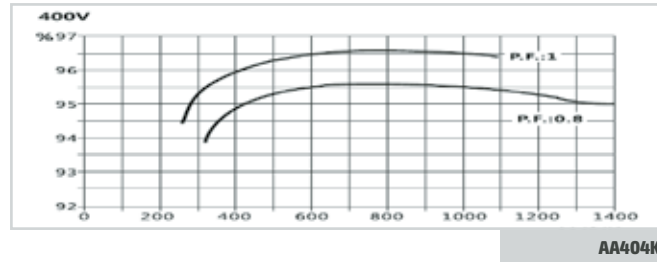
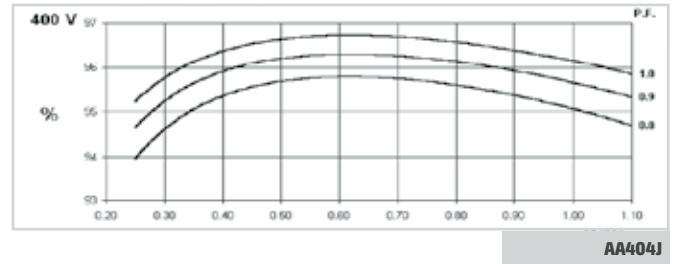
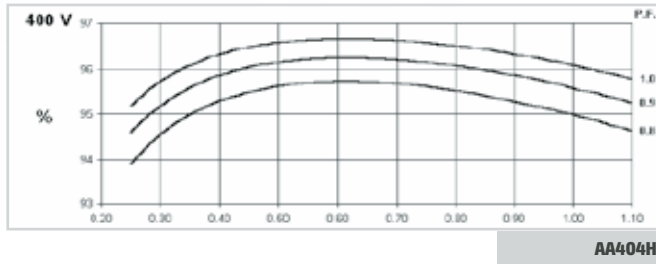
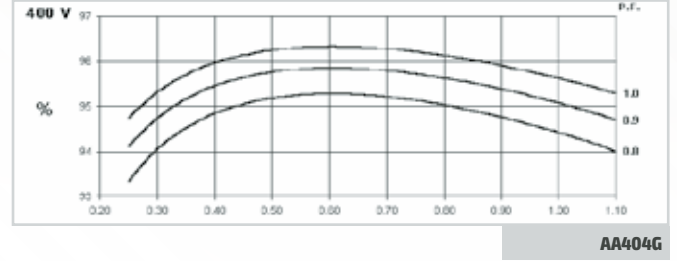
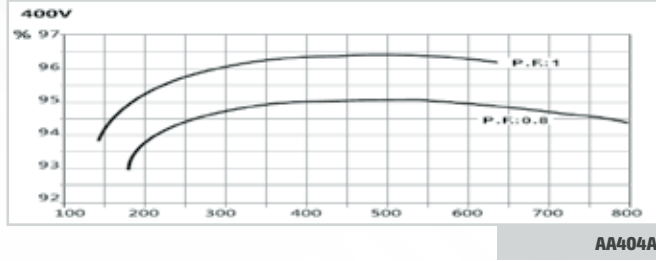
SINGLE BEARING SAE NO SELECTOR / TEK YATAK SAE NO SEÇİMİ				
	SAE14	SAE18	SAE21	SAE24
SAE 00		.	.	.
SAE 0	.	.		
SAE 0.5	.	.		
SAE 1	.	.		

# AA 404

## EFFICIENCY CURVES / VERİM GRAFİKLERİ

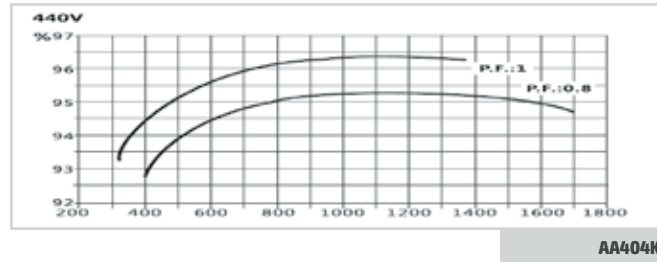
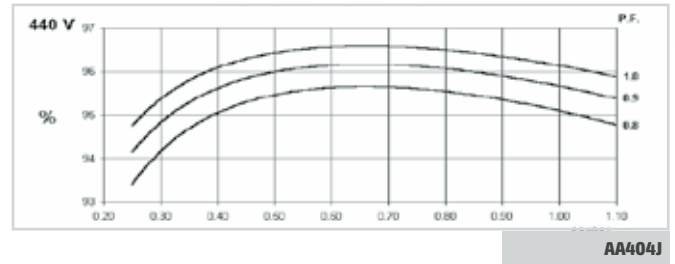
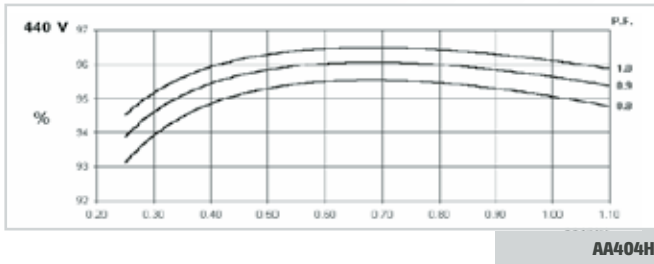
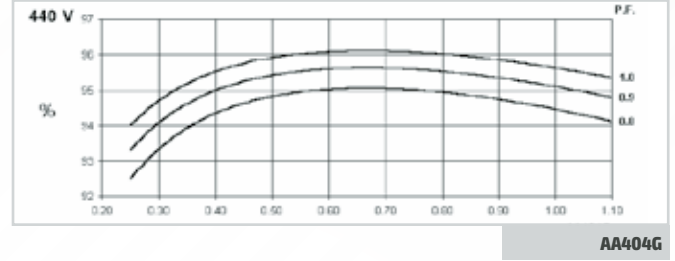
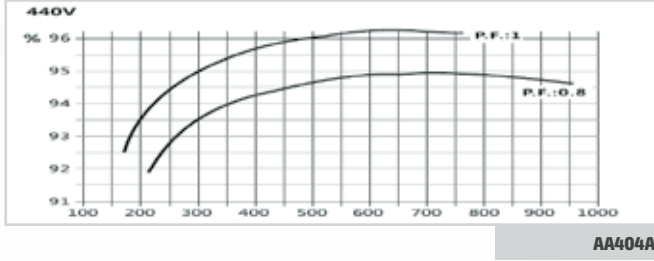


50 Hz



VOLTAGE SERIES STAR 400/230 50Hz					
MODEL	AA404A	AA404G	AA404H	AA404J	AA404K
Xd DIR. AXIS SYNCHRONOUS	4.11	2.83	2.70	2.73	2.89
X'd DIR. AXIS TRANSIENT	0.453	0.23	0.23	0.22	0.32
X''d DIR. AXIS SUBTRANSIENT	0.226	0.16	0.16	0.15	0.176
Xq QUAD. AXIS REACTANCE	2.72	1.70	1.60	1.61	2.46
X''q QUAD. AXIS SUBTRANSIENT	0.215	0.19	0.17	0.19	0.172
XL LEAKAGE REACTANCE		0.09	0.08	0.08	
X2 NEGATIVE SEQUENCE	0.182	0.20	0.18	0.19	0.134
X0 ZERO SEQUENCE	0.025	0.03	0.02	0.02	0.025
T'd TRANSIENT TIME CONST. (s)	0.16 s	0.185 s	0.185 s	0.185 s	0.18 s
T''d SUB-TRANSTIME CONST. (s)	0.016 s	0.025 s	0.025 s	0.025 s	0.017 s
T''do O.C. FIELD TIME CONST. (s)	1.5 s	2.35 s	2.44 s	3.03 s	1.55 s
Ta ARMATURE TIME CONST. (s)	0.024 s	0.04 s	0.04 s	0.046 s	0.023 s
SHORT CIRCUIT RATIO	1/Xd	1/Xd	1/Xd	1/Xd	1/Xd

60 Hz



VOLTAGE SERIES STAR 440/254 60Hz					
MODEL	AA404A	AA404G	AA404H	AA404J	AA404K
Xd DIR. AXIS SYNCHRONOUS	4.29	3.34	3.13	3.25	2.95
X'd DIR. AXIS TRANSIENT	0.472	0.26	0.27	0.26	0.335
X''d DIR. AXIS SUBTRANSIENT	0.236	0.20	0.18	0.18	0.184
Xq QUAD. AXIS REACTANCE	2.83	1.98	1.86	1.91	2.53
X''q QUAD. AXIS SUBTRANSIENT	0.215	0.23	0.20	0.23	0.172
XL LEAKAGE REACTANCE		0.11	0.09	0.10	
X2 NEGATIVE SEQUENCE	0.182	0.23	0.21	0.23	0.134
X0 ZERO SEQUENCE	0.025	0.03	0.03	0.03	0.025
T'd TRANSIENT TIME CONST. (s)	0.16 s	0.185 s	0.185 s	0.185 s	0.18 s
T''d SUB-TRANSTIME CONST. (s)	0.016 s	0.025 s	0.025 s	0.025 s	0.017 s
T''do O.C. FIELD TIME CONST. (s)	1.5 s	2.35 s	2.44 s	3.03 s	1.55 s
Ta ARMATURE TIME CONST. (s)	0.024 s	0.04 s	0.04 s	0.046 s	0.023 s
SHORT CIRCUIT RATIO	1/Xd	1/Xd	1/Xd	1/Xd	1/Xd