



**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 BS5000, VDE0530, NEMA MG1-32, IEC34, CSA C22.2-100, AS1359

## ULUSLARARASI STANDARTLAR

Alimar alternatör IEC EN 60034 standartlarına uygun olarak üretilmiş olup, BS5000, 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 314

TECHNICAL DATA SHEET / TEKNİK ÖZELLİKLER

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

RATINGS / DEĞERLER		POWER FACTOR / GÜÇ FAKTÖRÜ 0.8											
DUTY / ÇALIŞMA TİPİ		CONTINOUS / SÜREKLİ						STANDBY					
AMBIENT TEMP. / ORTAM SICAKLIĞI		40°C						27°C					
TEMP RISE / SICAKLIK ARTIŞI		H (125°C)						H (163°C)					
PHASE / FAZ		3 PHASE / FAZ						3 PHASE / FAZ					
SERIES STAR	Y	380	400	415	380	400	415	380	400	415	380	400	415
YILDIZ BAĞLANTI													
PARALLEL STAR	YY	190	200	208	190	200	208	190	200	208	190	200	208
PARALEL YILDIZ BAĞLANTI													
SERIES DELTA	Δ	220	230	240	220	230	240	220	230	240	220	230	240
ÜÇGEN BAĞLANTI													
MODEL		kVA	kW	kVA	kW	kVA	kW	kVA	kW	kVA	kW	kVA	kW
AA314C		250	200	250	200	250	200	275	220	275	220	275	220
AA314D		300	240	300	240	300	240	330	264	330	264	330	264
AA314E		325	260	325	260	325	260	350	280	355	280	350	280
AA314EL		350	280	350	280	350	280	385	308	385	308	385	308
AA314F		380	304	380	304	380	304	415	332	415	332	415	332
AA314G		400	320	400	320	400	320	440	352	450	360	450	360

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

RATINGS / DEĞERLER		POWER FACTOR / GÜÇ FAKTÖRÜ 0.8											
DUTY / ÇALIŞMA TİPİ		CONTINOUS / SÜREKLİ						STANDBY					
AMBIENT TEMP. / ORTAM SICAKLIĞI		40°C						27°C					
TEMP RISE / SICAKLIK ARTIŞI		H (125°C)						H (163°C)					
PHASE / FAZ		3 PHASE / FAZ						3 PHASE / FAZ					
SERIES STAR	Y	416	440	460	416	440	460	416	440	460	416	440	460
YILDIZ BAĞLANTI													
PARALLEL STAR	YY	208	220	230	208	220	230	208	220	230	208	220	230
PARALEL YILDIZ BAĞLANTI													
SERIES DELTA	Δ	240	254	266	240	254	266	240	254	266	240	254	266
ÜÇGEN BAĞLANTI													
MODEL		kVA	kW	kVA	kW	kVA	kW	kVA	kW	kVA	kW	kVA	kW
AA314C		285	228	300	240	315	252	310	248	330	264	345	276
AA314D		340	272	360	288	375	300	375	300	395	316	415	332
AA314E		365	292	365	292	365	292	405	324	405	324	405	324
AA314EL		400	320	420	336	440	352	440	352	450	360	450	360
AA314F		440	352	440	352	440	352	490	392	500	400	500	400
AA314G		455	364	460	368	460	368	500	400	530	424	530	424

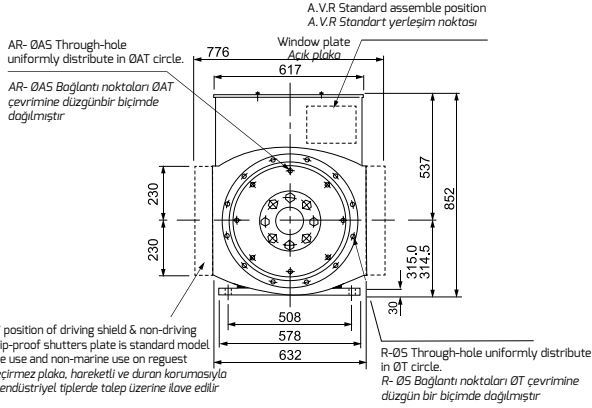
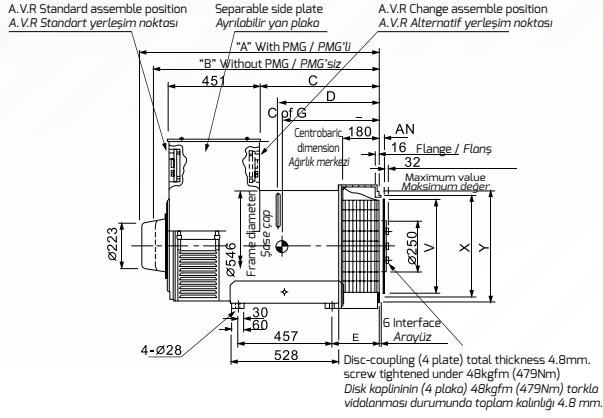
## > Enerji Çözüm Ortağınız

> Your Solution Partner in Energy

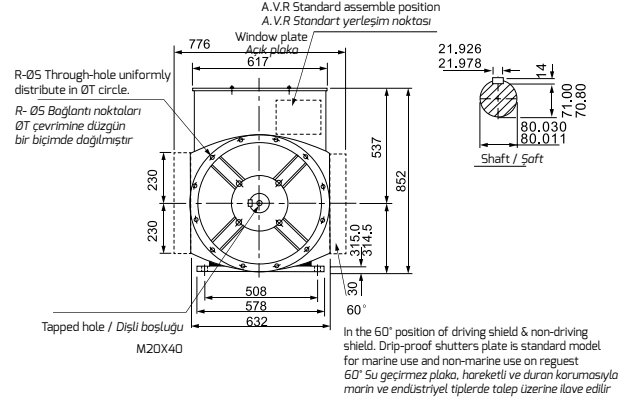
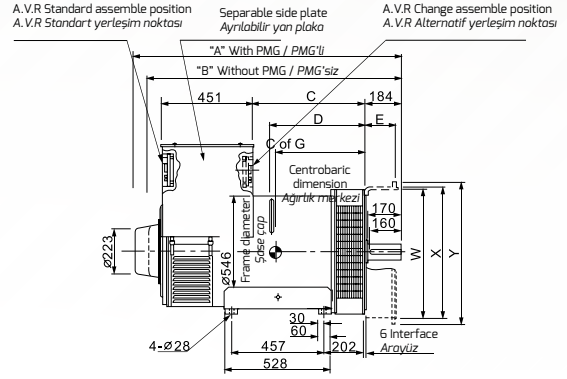
# AA 314

## OVERALL DIMENSIONS / ÖLÇÜLER

### SINGLE BEARING / TEK YATAKLI



### DOUBLE BEARING / ÇİFT YATAKLI



#### DIMENSIONS / BOYUTLAR (mm)

Model	A		B		C		D		C of G
	SAE1/2/0.5	SAE0	SAE1/2/0.5	SAE0	SAE1/2/0.5	SAE0	SAE1/2/0.5	SAE0	
AA314C	1172	1202	1101	1131	584	614	493	523	463
AA314D	1172	1202	1101	1131	584	614	493	523	483
AA314E	1172	1202	1101	1131	584	614	493	523	504
AA314EL	1172	1202	1101	1131	584	614	493	523	525
AA314F	1262	1292	1191	1221	674	704	583	613	530
AA314G	1262	1292	1191	1221	674	704	583	613	550

#### SHIPPING DIMENSIONS / SEVKİYAT BOYUTLARI

Model	Net Weight / Net Ağırlık (kg)	Gross Weight / Brüt Ağırlık (kg)	LxWxH (mm)
AA314C	800	850	1270x740x1081
AA314D	890	940	1270x740x1080
AA314E	960	1010	1270x740x1080
AA314EL	1010	1060	1270x740x1080
AA314F	1110	1160	1330x740x1090
AA314G	1160	1210	1330x740x1090

#### FLANGE / FLANŞ (mm)

S.A.E.NO.	R	S	T	X	Y	E
0	12	14	679.5	647.6	711	232
1/2	12	14	619.1	584.1	680	232
1	12	12.7	530.2	511.1	617	232
2	12	11	466.7	447.6	617	232

#### DISC COUPLING / DISK KAPLIN (mm)

S.A.E.NO.	AN	AR	AS	AT	V
11.5	39.68	8	11	333.4	352.3
14	25.40	8	13.5	438.1	466.6
18	15.87	6	16.7	543.0	571.4

#### DIMENSIONS / BOYUTLAR (mm)

Model	A		B	C	D	C of G	SHIPPING DIMENSIONS / SEVKİYAT BOYUTLARI	
	Net Weight / Net Ağırlık (kg)	Gross Weight / Brüt Ağırlık (kg)					LxWxH (mm)	
AA314C	1326	1255	554	463	443	800	860	1370x740x1090
AA314D	1326	1255	554	463	453	890	950	1370x740x1090
AA314E	1326	1255	554	463	474	980	1040	1370x740x1090
AA314EL	1326	1255	554	463	474	1030	1090	1370x740x1090
AA314F	1416	1345	654	553	500	1110	1170	1470x740x1090
AA314G	1416	1345	654	553	500	1160	1220	1470x740x1090

#### FLANGE / FLANŞ (mm)

S.A.E.NO.	R	S	T	W	X	Y	E
0	16	14	679.5	632	647.6	711	150
1/2	12	14	619.1	569	584.1	648	150
1	12	12.7	530.2	496	511.1	553	150

#### SINGLE BEARING SAE NO SELECTOR / TEK YATAK SAE NO SEÇİMİ

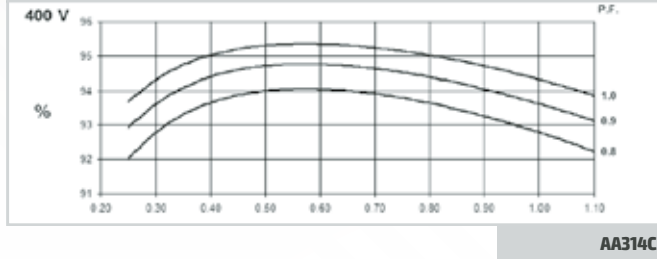
	SAE11.5	SAE14	SAE18
SAE 0	.	.	.
SAE 0.5	.	.	.
SAE 1	.	.	.
SAE 2	.	.	.

# AA 314

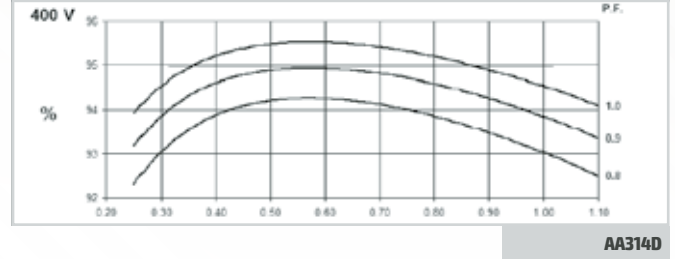
## EFFICIENCY CURVES / VERİM GRAFİKLERİ



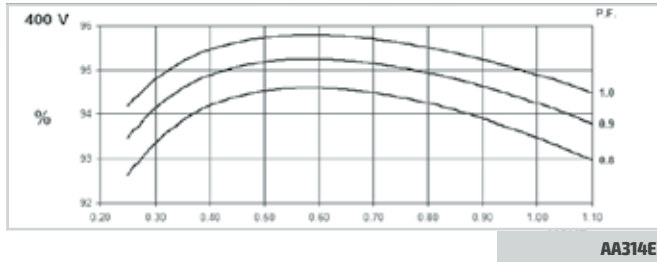
50 Hz



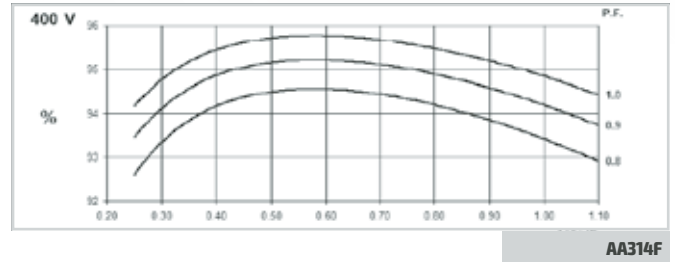
AA314C



AA314D



AA314E

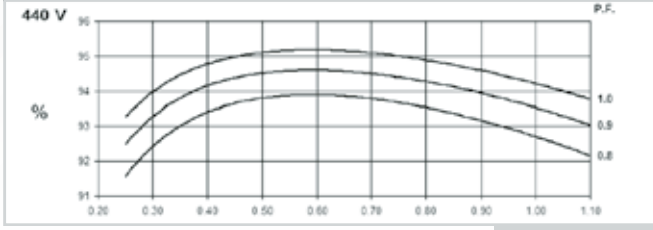


AA314F

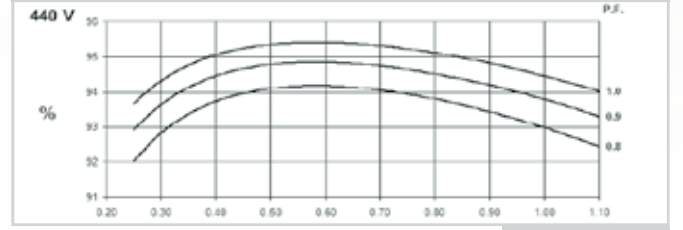
### VOLTAGE SERIES STAR 400/230 50Hz

MODEL	AA314C	AA314D	AA314E	AA314F
Xd DIR. AXIS SYNCHRONOUS	2.84	2.85	2.71	2.45
X'd DIR. AXIS TRANSIENT	0.18	0.18	0.18	0.16
X''d DIR. AXIS SUBTRANSIENT	0.13	0.13	0.13	0.12
Xq QUAD. AXIS REACTANCE	2.44	2.40	2.33	2.12
X'q QUAD. AXIS SUBTRANSIENT	0.36	0.36	0.32	0.28
XL LEAKAGE REACTANCE	0.09	0.06	0.06	0.05
X2 NEGATIVE SEQUENCE	0.25	0.24	0.22	0.20
X0 ZERO SEQUENCE	0.09	0.09	0.09	0.08
T'd TRANSIENT TIME CONST. (s)	0.08 s	0.08 s	0.08 s	0.08 s
T''d SUB-TRANSTIME CONST. (s)	0.019 s	0.019 s	0.019 s	0.019 s
T''do O.C. FIELD TIME CONST. (s)	1.7 s	1.7 s	1.7 s	1.7 s
Ta ARMATURE TIME CONST. (s)	0.018 s	0.018 s	0.018 s	0.018 s
SHORT CIRCUIT RATIO	1/Xd	1/Xd	1/Xd	1/Xd

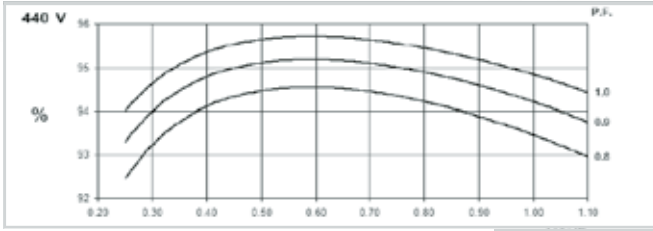
60 Hz



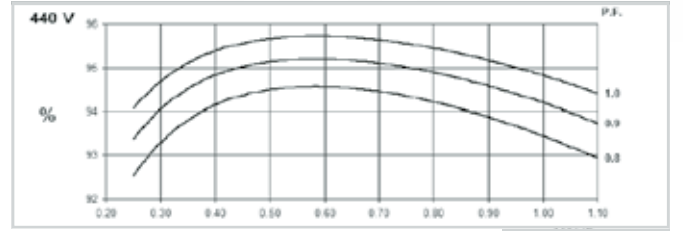
AA314C



AA314D



AA314E



AA314F

VOLTAGE SERIES STAR 440/254 60Hz

MODEL	AA314C	AA314D	AA314E	AA314F
Xd DIR. AXIS SYNCHRONOUS	3.51	3.37	3.26	3.09
X'd DIR. AXIS TRANSIENT	0.23	0.21	0.20	0.17
X''d DIR. AXIS SUBTRANSIENT	0.15	0.14	0.14	0.12
Xq QUAD. AXIS REACTANCE	3.03	2.89	2.74	2.73
X''q QUAD. AXIS SUBTRANSIENT	0.40	0.38	0.38	0.41
XL LEAKAGE REACTANCE	0.09	0.09	0.08	0.07
X2 NEGATIVE SEQUENCE	0.28	0.27	0.26	0.27
X0 ZERO SEQUENCE	0.09	0.09	0.09	0.09
T'd TRANSIENT TIME CONST. (s)	0.08 s	0.08 s	0.08 s	0.08 s
T''d SUB-TRANSTIME CONST. (s)	0.019 s	0.019 s	0.019 s	0.019 s
T''do O.C. FIELD TIME CONST. (s)	1.7 s	1.7 s	1.7 s	1.7 s
Ta ARMATURE TIME CONST. (s)	0.018 s	0.018 s	0.018 s	0.018 s
SHORT CIRCUIT RATIO	1/Xd	1/Xd	1/Xd	1/Xd