alimar®

AA SERIES ALTERNATOR GROUPS

AA SERİSİ ALTERNATÖR GRUPLARI

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*

alimar®

AA Series / Serisi

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

AA 164

TECHNICAL DATA SHEET / TEKNİK ÖZELLİKLER

50 Hz, CLASS / SINIF "H"

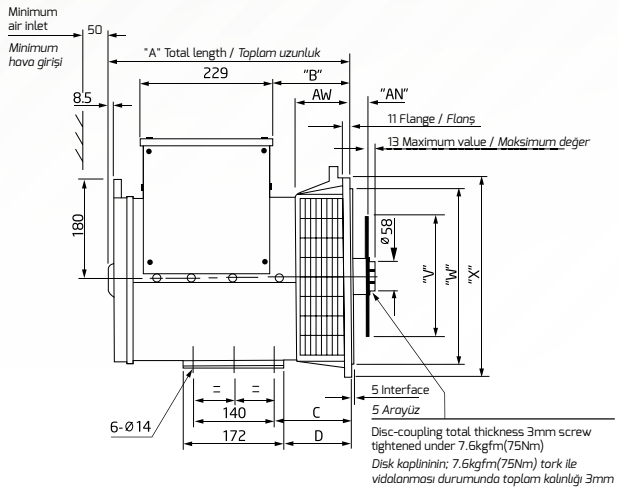
RATINGS / DEĞERLER	POWER FACTOR / GÜÇ FAKTÖRÜ 0.8											
DUTY / ÇALIŞMA TİPİ AMBIENT TEMP. / ORTAM SICAKLIĞI	CONTINOUS / SÜREKLİ 40°C						STANDBY 27°C					
TEMP RISE / SICAKLIK ARTIŞI	H (125°C)						H (163°C)					
PHASE / FAZ	3 PHASE / FAZ						3 PHASE / FAZ					
SERIES STAR YILDIZ BAĞLANTI Y	380		400		415		380		400		415	
PARALLEL STAR PARALEL YILDIZ BAĞLANTI YY	190		200		208		190		200		208	
SERIES DELTA ÜÇGEN BAĞLANTI Δ	220		230		240		220		230		240	
MODEL	kVA	kW	kVA	kW	kVA	kW	kVA	kW	kVA	kW	kVA	kW
AA164A	8.1	6.5	8.1	6.5	8.1	6.5	9	7.2	9	7.2	9	7.2
AA164B	11	8.8	11	8.8	11	8.8	12	9.6	12	9.6	12	9.6
AA164C	13.5	10.8	13.5	10.8	13.5	10.8	15	12	15	12	15	12
AA164D	16	12.8	16	12.8	16	12.8	17.5	14	17.5	14	17.5	14

60 Hz, CLASS / SINIF "H"

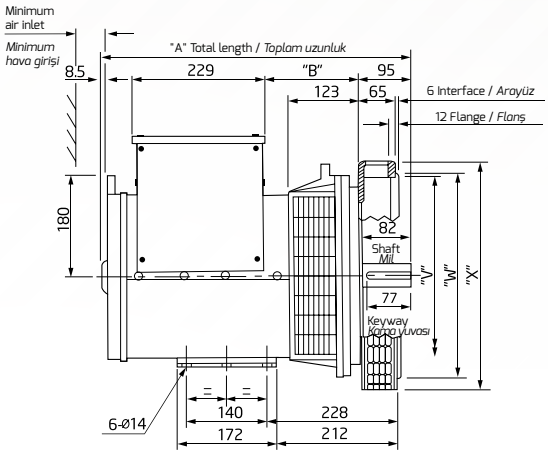
RATINGS / DEĞERLER	POWER FACTOR / GÜÇ FAKTÖRÜ 0.8											
DUTY / ÇALIŞMA TİPİ AMBIENT TEMP. / ORTAM SICAKLIĞI	CONTINOUS / SÜREKLİ 40°C						STANDBY 27°C					
TEMP RISE / SICAKLIK ARTIŞI	H (125°C)						H (163°C)					
PHASE / FAZ	3 PHASE / FAZ						3 PHASE / FAZ					
SERIES STAR YILDIZ BAĞLANTI Y	416		440		460		416		440		460	
PARALLEL STAR PARALEL YILDIZ BAĞLANTI YY	208		220		230		208		220		230	
SERIES DELTA ÜÇGEN BAĞLANTI Δ	240		254		266		240		254		266	
MODEL	kVA	kW	kVA	kW	kVA	kW	kVA	kW	kVA	kW	kVA	kW
AA164A	9.6	7.7	9.6	7.7	9.6	7.7	12	9.6	12	9.6	12	9.6
AA164B	13	10.4	13	10.4	13	10.4	16	12.8	16	12.8	16	12.8
AA164C	16	12.8	16	12.8	16	12.8	18.5	14.8	18.5	14.8	18.5	14.8
AA164D	18.9	15.1	18.9	15.1	18.9	15.1	22	17.6	22	17.6	22	17.6

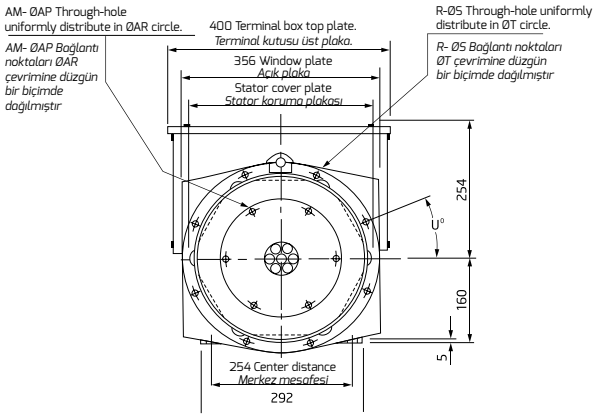
AA 164
OVERALL DIMENSIONS / ÖLÇÜLER

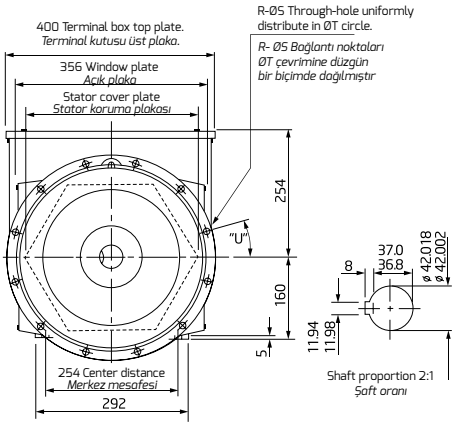
SINGLE BEARING / TEK YATAKLI



DOUBLE BEARING / ÇİFT YATAKLI







DIMENSIONS / BOYUTLAR (mm)							SHIPPING DIMENSIONS SEVKİYAT BOYUTLARI		
Model	A			B			Net Weight Net Ağırlık (kg)	Gross Weight Brüt Ağırlık (kg)	LxWxH (mm)
	SAE3/5	SAE4	SAE6	SAE3/5	SAE4	SAE6			
AA164A	403.5	391.5	435.2	119.5	107	151.2	85	95	515x485x620
AA164B	403.5	391.5	435.2	119.5	107	151.2	90	102	515x485x620
AA164C	403.5	391.5	435.2	119.5	107	151.2	96	110	515x485x620
AA164D	403.5	391.5	435.2	119.5	107	151.2	99	116	515x485x620

DIMENSIONS / BOYUTLAR (mm)			SHIPPING DIMENSIONS SEVKİYAT BOYUTLARI		
Model	A	B	Net Weight Net Ağırlık (kg)	Gross Weight Brüt Ağırlık (kg)	LxWxH (mm)
AA164A	511.5	137	91	101	565x485x620
AA164B	511.5	137	98	108	565x485x620
AA164C	511.5	137	106	116	565x485x620
AA164D	511.5	137	112	122	565x485x620

FLANGE / FLANŞ (mm)									
S.A.E.NO.	AW	R	S	T	U°	W	X	C	D
3	105	8	11	428.6	15	409.5	451	145	129
4	93	8	11	381.0	15	361.9	402	133	117
5	105	8	11	333.3	22.5	314.3	356	145	129
6*	136.7	8	11	285.8	22.5	266.7	308	176.7	160.7

FLANGE / FLANŞ (mm)							
S.A.E.NO.	R	S	T	U°	V	W	X
3	12	11	428.6	15	396	409.5	451
4	12	11	381.0	15	352	361.9	403
5	8	11	333.3	22.5	301	314.3	356

DISC COUPLING / DİSK KAPLİN (mm)					
S.A.E.NO.	AN	AM	AP	AR	V
6.5	30.16	6	8.7	200.0	215.8
7.5	30.16	8	8.7	222.2	241.2
8**	61.9	6	11	244.5	263.4
10	53.98	8	11	295.3	314.2

SINGLE BEARING SAE NO SELECTOR / TEK YATAK SAE NO SEÇİMİ				
SAE NO	SAE 6.5	SAE 7.5	SAE 8	SAE 10
SAE 3	•	•		•
SAE 4		•	•	•
SAE 5	•	•		
SAE 6	•			

(*) "A" dimensions should extend 31.77 mm corresponding to an additional spacer plate added on SAE 6.
"A" toplam uzunluğu, SAE 6 flanş modelinde ara levha kullanılması durumunda 31,77 mm daha uzayacaktır.
(**) 8 holes of SAE 3 uniformly distrubute the circle spaced as 12.
SAE 3 disk kaplin modelinde, 12 bağlantı noktası yerine 8 adet bağlantı noktası eşit dağıtılmıştır.

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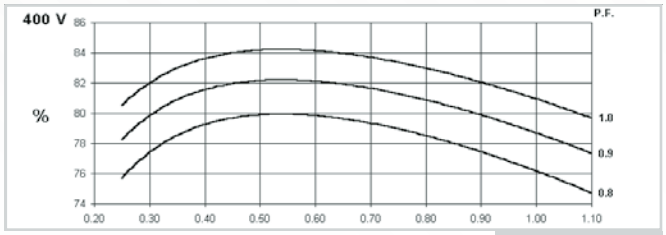
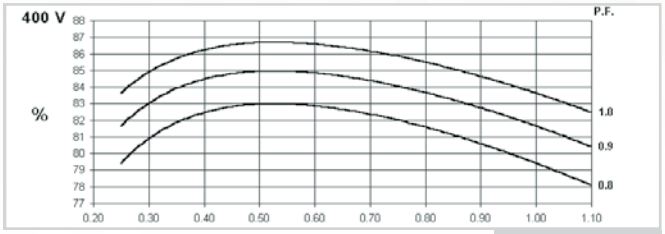
EFFICIENCY CURVES / VERİM GRAFİKLERİ

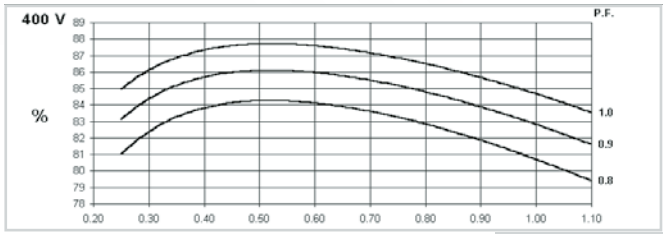
50 Hz



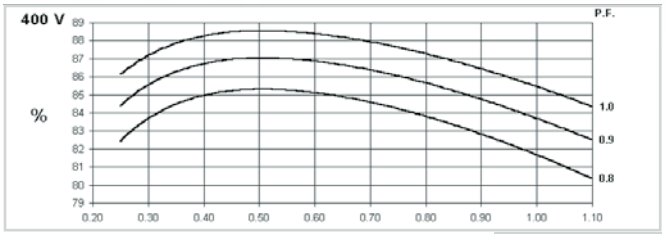
AA164A



AA164B



AA164C



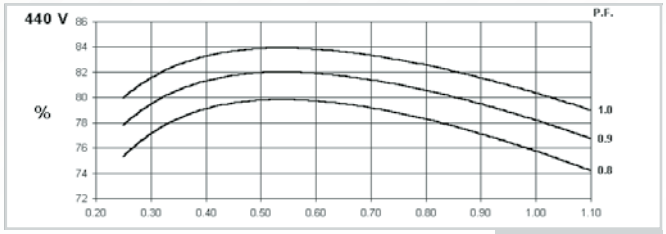
AA164D

VOLTAGE SERIES STAR 400/230 50Hz				
MODEL	**AA164A**	**AA164B**	**AA164C**	**AA164D**
Xd DIR. AXIS SYNCHRONOUS	1.800	1.777	1.754	1.734
X'd DIR. AXIS TRANSIENT	0.184	0.181	0.179	0.177
X"d DIR. AXIS SUBTRANSIENT	0.115	0.113	0.112	0.111
Xq QUAD. AXIS REACTANCE	0.895	0.883	0.872	0.861
X"q QUAD. AXIS SUBTRANSIENT	0.207	0.203	0.201	0.199
XL LEAKAGE REACTANCE	0.072	0.071	0.070	0.070
X2 NEGATIVE SEQUENCE	0.172	0.170	0.168	0.166
X0 ZERO SEQUENCE	0.078	0.077	0.76	0.075
T'd TRANSIENT TIME CONST. (s)	0.012 s	0.014 s	0.016 s	0.018 s
T"d SUB-TRANSTIME CONST. (s)	0.003 s	0.0035 s	0.004 s	0.0045 s
T"do O.C. FIELD TIME CONST. (s)	0.2 s	0.25 s	0.3 s	0.35 s
Ta ARMATURE TIME CONST. (s)	0.004 s	0.0045 s	0.005 s	0.0055 s
SHORT CIRCUIT RATIO	1/Xd	1/Xd	1/Xd	1/Xd

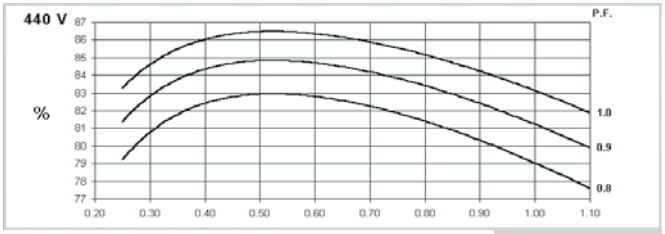
AA 164

EFFICIENCY CURVES / VERİM GRAFİKLERİ

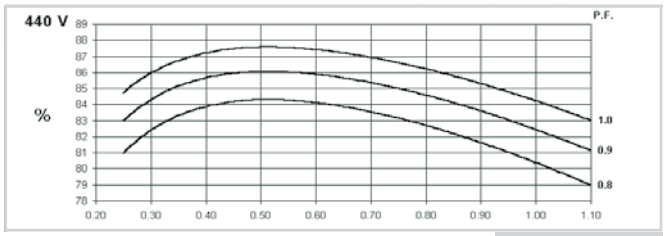
60 Hz



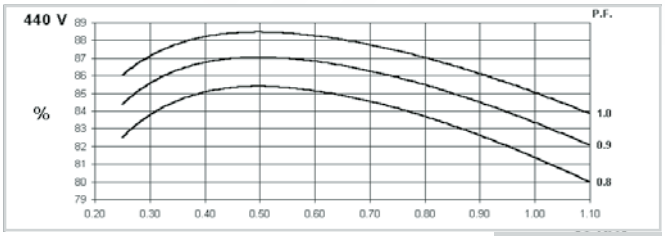
AA164A



AA164B



AA164C



AA164D

VOLTAGE SERIES STAR 440/254 60Hz				
MODEL	**AA164A**	**AA164B**	**AA164C**	**AA164D**
Xd DIR. AXIS SYNCHRONOUS	2.248	2.211	2.174	2.149
X'd DIR. AXIS TRANSIENT	0.230	0.225	0.223	0.219
X"d DIR. AXIS SUBTRANSIENT	0.144	0.140	0.139	0.138
Xq QUAD. AXIS REACTANCE	0.117	1.098	1.081	1.068
X"q QUAD. AXIS SUBTRANSIENT	0.258	0.252	0.249	0.246
XL LEAKAGE REACTANCE	0.090	0.088	0.087	0.087
X2 NEGATIVE SEQUENCE	0.215	0.212	0.208	0.206
X0 ZERO SEQUENCE	0.098	0.096	0.094	0.093
T'd TRANSIENT TIME CONST. (s)	0.012 s	0.014 s	0.016 s	0.018 s
T"d SUB-TRANSTIME CONST. (s)	0.003 s	0.0035 s	0.004 s	0.0045 s
T"do O.C. FIELD TIME CONST. (s)	0.2 s	0.25 s	0.3 s	0.35 s
Ta ARMATURE TIME CONST. (s)	0.004 s	0.0045 s	0.005 s	0.0055 s
SHORT CIRCUIT RATIO	1/Xd	1/Xd	1/Xd	1/Xd