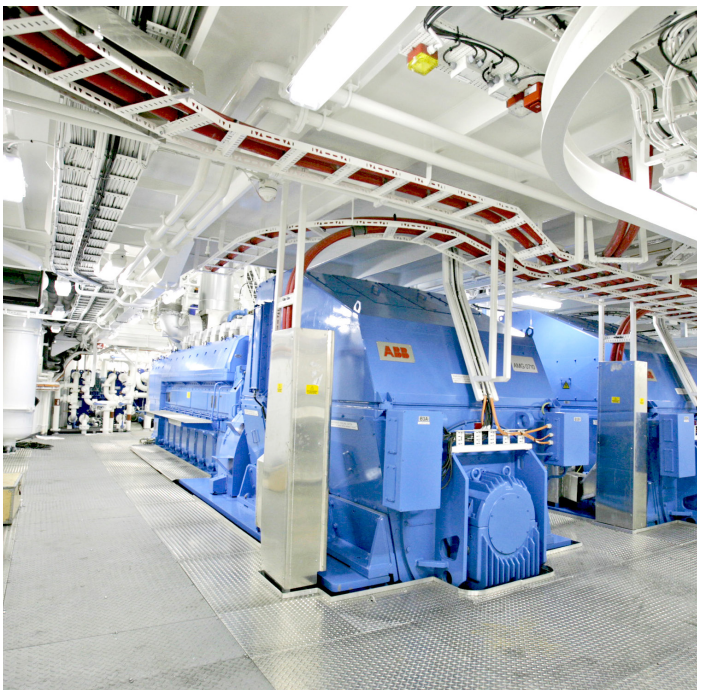
Catalog

Low voltage generators for diesel and gas engines Marine applications - Standard series

Power and productivity for a better world™

We provide motors and generators, services and expertise to save energy and improve customers' processes over the total life cycle of our products, and beyond.



Low voltage marine series generators 3 phases, 4 poles, 1500/1800 rpm IEC frame size 180-450, 13-2430 kVA

General information

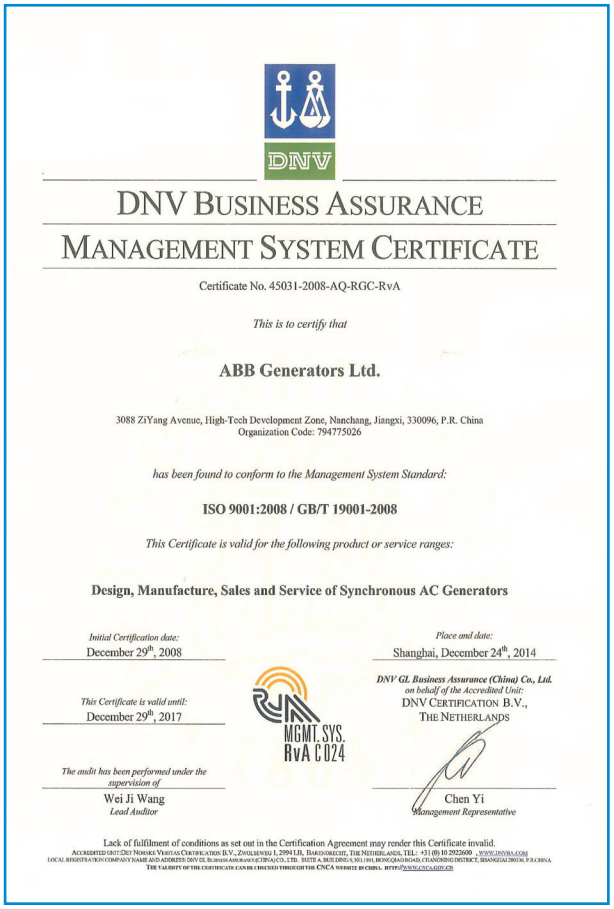
Our new range of low voltage generators is developed to better fit market demands and is available in IEC frame sizes 180 to 450. The generators are ideal for supplying continuous, standby or emergency power for cargo ships, supply vessels, offshore platforms and other vessel types.

Standards

ABB low voltage generators are built to comply with international IEC standards and SOLAS requirements. The production unit is certified to the ISO 9001 international quality standard as well as the ISO 14001 environmental and OHSAS 18001 standards.

Classifications

ABB low voltage marine generators can be supplied with various certificates issued by classification societies worldwide such as CCS, DNV, ABS, BV etc.



DNV

DNV BUSINESS ASSURANCE

MANAGEMENT SYSTEM CERTIFICATE

Certificate No. 45031-2008-AQ-RGC-RvA

This is to certify that

ABB Generators Ltd.

3088 ZiYang Avenue, High-Tech Development Zone, Nanchang, Jiangxi, 330096, P.R. China
Organization Code: 794775026

has been found to conform to the Management System Standard:

ISO 9001:2008 / GB/T 19001-2008

This Certificate is valid for the following product or service ranges:

Design, Manufacture, Sales and Service of Synchronous AC Generators

Initial Certification date: December 29th, 2008

This Certificate is valid until: December 29th, 2017

Place and date: Shanghai, December 24th, 2014

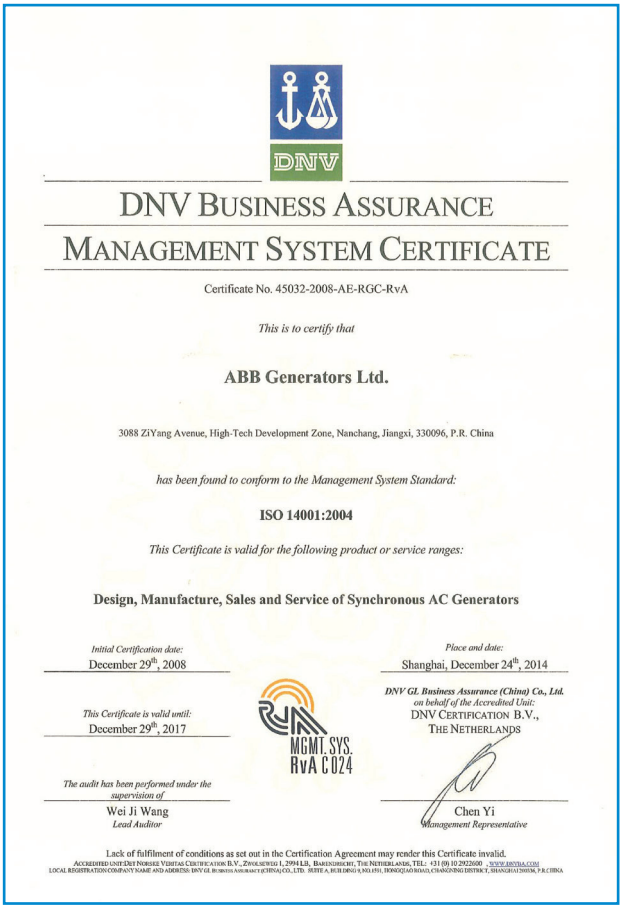
DNV GL Business Assurance (China) Co., Ltd. on behalf of the Accredited Unit: DNV CERTIFICATION B.V., THE NETHERLANDS

MGMT. SYS. RvA C 024

The audit has been performed under the supervision of
Wei Ji Wang
Lead Auditor

Chen Yi
Management Representative

Lack of fulfilment of conditions as set out in the Certification Agreement may render this Certificate invalid.



DNV

DNV BUSINESS ASSURANCE

MANAGEMENT SYSTEM CERTIFICATE

Certificate No. 45032-2008-AE-RGC-RvA

This is to certify that

ABB Generators Ltd.

3088 ZiYang Avenue, High-Tech Development Zone, Nanchang, Jiangxi, 330096, P.R. China

has been found to conform to the Management System Standard:

ISO 14001:2004

This Certificate is valid for the following product or service ranges:

Design, Manufacture, Sales and Service of Synchronous AC Generators

Initial Certification date: December 29th, 2008

This Certificate is valid until: December 29th, 2017

Place and date: Shanghai, December 24th, 2014

DNV GL Business Assurance (China) Co., Ltd. on behalf of the Accredited Unit: DNV CERTIFICATION B.V., THE NETHERLANDS

MGMT. SYS. RvA C 024

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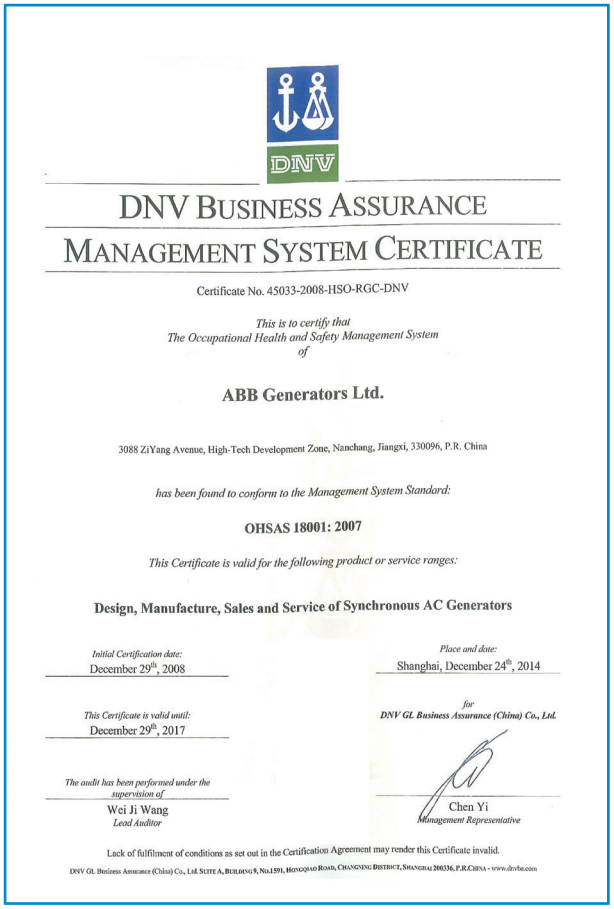


DNV

DNV BUSINESS ASSURANCE

MANAGEMENT SYSTEM CERTIFICATE

Certificate No. 45033-2008-HSO-RGC-DNV

This is to certify that
The Occupational Health and Safety Management System
of

ABB Generators Ltd.

3088 ZiYang Avenue, High-Tech Development Zone, Nanchang, Jiangxi, 330096, P.R. China

has been found to conform to the Management System Standard:

OHSAS 18001: 2007

This Certificate is valid for the following product or service ranges:

Design, Manufacture, Sales and Service of Synchronous AC Generators

Initial Certification date: December 29th, 2008

This Certificate is valid until: December 29th, 2017

Place and date: Shanghai, December 24th, 2014

for *DNV GL Business Assurance (China) Co., Ltd.*

The audit has been performed under the supervision of
Wei Ji Wang
Lead Auditor

Chen Yi
Management Representative

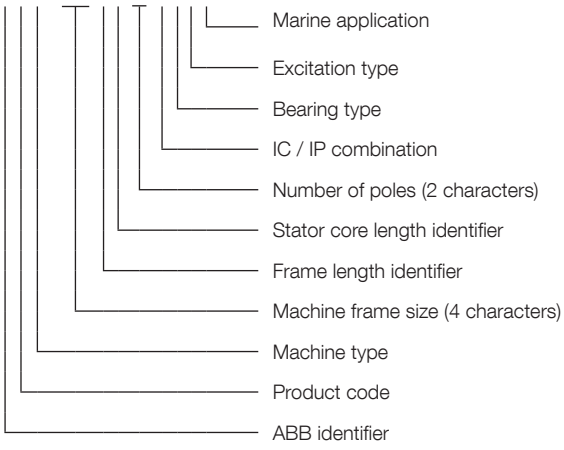
Lack of fulfilment of conditions as set out in the Certification Agreement may render this Certificate invalid.

Marine series generators
3 phases, 4 poles, 1500/1800 rpm
IEC frame size 180-450, 13-2430 kVA

Electrical features

Type definition

AMG 0180CC04 DBAM



Excitation type : A - Auxiliary winding, P - PMG

earing type : A - Double bearing, B - Single bearing

Voltage regulator

The automatic voltage regulator (AVR) is manufactured according to ABB specifications to ensure stable operation. The standard AVRs are of analogue type and mounted inside the main terminal box. A digital voltage regulator is available as an option.

Overload capability

Permissible overload is 110% for one hour every twelve hours.

Excitation systems

- Brushless excitation, built-in AVR and self-excited (PMI)
- Auxiliary winding or PMG excitation systems.
- Sustained short circuit current: >3 x In for 10 s

Excitation Type / Model	Auxiliary winding	PMG
AMG 0180	●	N/A
AMG 0200	●	◎
AMG 0250	●	◎
AMG 0280	●	◎
AMG 0315	●	◎
AMG 0355	◎	●
AMG 0400	◎	●
AMG 0450	◎	●

● Standard configuration
◎ Optional configuration
N/A Not available

Frequency

The generators can be operated at either 50 or 60 Hz.

Voltage level and connections

50 Hz: 380-440V(Y), 220-254(Δ)
60 Hz: 380-480V(Y), 220-277(Δ)
Voltage can be changed by reconnection and adjustment using the voltage regulator.
For frame sizes 0180-0355, twelve leads are brought into the terminal box to enable internal parallel star, series delta and parallel delta connections. Single phase operation also available by reconnection.

Insulation

Insulation class H.
All windings are impregnated with high quality polyester-imide resin using vacuum pressure. They can withstand all expected mechanical and electrical shocks and vibrations as well as chemical corrosion.

Voltage waveform

For frame sizes 0180 - 0450, 2/3 winding pitch is used to eliminate the 3rd harmonic on the voltage waveform.

Mechanical features

Poles and frame sizes

- 4 poles
- Frame sizes are 180, 200, 250, 280, 315, 355, 400 and 450.

Enclosure

The Standard enclosure is IP23, Other enclosures are available on request (Ask factory for the detailed configurations).

Direction of rotation

All the generators operate in clockwise direction as viewed from the drive end. Anticlockwise operation is available on request.

Balancing

All rotors are dynamically balanced according to ISO 1940 G2.5. Two bearing rotors are balanced with a half key.

Bearings

The generator can be provided in single bearing or two bearing configurations.
Standard bearing configurations:

Shunt	Non-Drive end	Drive end
AMG 0180	▲	▲
AMG 0200	▲	▲
AMG 0250	▲	▲
AMG 0280	▲	▲
AMG 0315	▲	▲
AMG 0355	▲	△
AMG 0400	▲	△
AMG 0450	▲	△

▲ Sealed rolling bearing
△ Re-greasable rolling bearing

Terminal box

The generators have a large terminal box which allows easy access to connection bars or to the AVR. Current transformers and other optional modules can be installed inside the box.

Overspeed

The maximum overspeed is 2250 rpm (1.25 times the 60Hz rated speed).

Mounting

For IM2105 a single bearing, SAE flange, coupling disc and feat down.
For IM1001 (IMB34) double bearings, SAE flange, one horizontal shaft extension and feet down.

Main optional features

- PTC thermistor,
- PT100 thermistor sensor for stator winding
- PT100 thermistor sensor for bearing
- Current transformer for parallel operation
- PMG
- Digital voltage regulator
- IP23 air filter
- IP44 air filter
- Extended terminal box
- Connection flange
- 660V and 690V
- Cable entry seals
- Other options are available on request

Technical data

Type	continuous, H-class (120 K), ambient 45°C, p.f. 0.8									
	50 Hz				Efficiency	60 Hz				Efficiency
	380 V	400 V	415 V	440 V	(400V)	415 V	440 V	460 V	480 V	(480V)
	kVA	kVA	kVA	kVA	%	kVA	kVA	kVA	kVA	%
AMG 0180AA04 DBAM	14.0	14.0	14.0	13.0	81.33	15.0	16.0	17.0	18.0	83.24
AMG 0180BB04 DBAM	19.0	19.0	19.0	18.0	83.08	21.0	22.0	23.0	24.0	84.79
AMG 0180CC04 DBAM	23.0	23.0	23.0	22.0	84.80	25.0	26.0	27.0	28.0	86.58
AMG 0180DD04 DBAM	27.0	27.0	27.0	26.0	86.53	30.0	30.5	31.5	32.5	88.12
AMG 0200AA04 DBAM	33.0	35.0	35.0	33.0	86.63	37.0	38.5	40.5	42.5	87.93
AMG 0200BS04 DBAM	38.5	41.5	41.5	38.5	87.42	44.0	46.0	48.0	49.5	88.75
AMG 0200BB04 DBAM	44.0	46.0	46.0	44.0	88.15	49.5	51.5	53.5	55.0	89.43
AMG 0200CC04 DBAM	55.0	58.0	58.0	55.0	89.08	62.5	64.5	67.0	70.0	90.26
AMG 0200DD04 DBAM	65.5	69.0	69.0	65.5	89.61	72.0	76.5	79.0	83.0	90.77
AMG 0250AR04 DBAM	74.0	78.0	78.0	74.0	88.70	84.0	89.0	93.0	97.0	89.64
AMG 0250AS04 DBAM	90.0	95.0	95.0	85.5	88.58	105	110	115	120	89.65
AMG 0250AA04 DBAM	100	105	105	100	90.24	115	125	130	135	91.07
AMG 0250BS04 DBAM	115	120	120	110	90.77	130	135	140	145	91.80
AMG 0250BB04 DBAM	125	130	130	115	91.30	140	145	155	160	92.21
AMG 0250CC04 DBAM	135	140	140	125	91.91	145	155	165	170	92.78
AMG 0250DS04 DBAM	140	150	150	130	92.43	160	170	175	185	93.17
AMG 0250DD04 DBAM	150	163	163	145	92.67	170	180	190	200	93.40
AMG 0280AS04 DBAM	165	175	175	155	91.68	185	195	205	215	92.39
AMG 0280AA04 DBAM	175	185	185	165	91.90	195	210	220	230	92.56
AMG 0280AL04 DBAM	200	210	210	195	92.28	225	235	245	255	93.01
AMG 0280BB04 DBAM	220	235	235	205	92.77	240	255	270	280	93.46
AMG 0280CC04 DBAM	240	255	255	230	93.01	270	290	300	310	93.65
AMG 0280DD04 DBAM	285	300	300	270	93.31	320	335	350	365	93.94
AMG 0280DL04 DBAM	295	313	313	290	93.52	330	345	365	380	94.13
AMG 0315AS04 DBAM	320	335	335	315	93.12	345	370	385	405	93.75
AMG 0315AA04 DBAM	335	355	355	335	93.20	380	400	420	435	93.80
AMG 0315BS04 DBAM	365	385	385	360	93.69	410	430	450	470	94.24
AMG 0315BB04 DBAM	415	435	435	400	93.57	460	490	510	530	94.19
AMG 0315CC04 DBAM	450	475	475	430	94.43	500	530	555	580	94.92
AMG 0355AA04 DBPM	520	545	545	495	94.05	575	610	640	665	94.50
AMG 0355BB04 DBPM	565	594	594	540	94.58	625	665	700	725	94.97
AMG 0355BL04 DBPM	610	640	640	585	94.76	680	720	755	785	95.14
AMG 0355CC04 DBPM	665	700	700	630	95.01	725	765	800	840	95.40
AMG 0400AA04 DBPM	755	795	795	710	94.34	820	875	915	950	94.60
AMG 0400BS04 DBPM	840	885	885	795	94.73	935	980	1025	1075	94.95
AMG 0400BB04 DBPM	885	935	935	840	94.87	970	1025	1075	1120	95.10
AMG 0400CS04 DBPM	1025	1075	1075	935	95.04	1120	1180	1235	1305	95.27
AMG 0400CC04 DBPM	1110	1165	1165	1025	95.20	1215	1285	1345	1400	95.45
AMG 0400DD04 DBPM	1335	1400	1400	1240	95.57	1455	1540	1605	1650	95.81
AMG 0450AA04 DBPM	1460	1540	1540	1355	95.35	1595	1695	1775	1850	95.61
AMG 0450BB04 DBPM	1675	1765	1765	1550	95.55	1830	1935	2030	2115	95.81
AMG 0450CC04 DBPM	1860	1960	1960	1775	95.90	2035	2155	2255	2350	96.11
AMG 0450DD04 DBPM	1920	2025	2025	1845	96.00	2100	2230	2330	2430	96.20

Technical data

Type	continuous, F-class (95 K), ambient 50°C, p.f. 0.8									
	50 Hz				Efficiency	60 Hz				Efficiency
	380 V	400 V	415 V	440 V	(400V)	415 V	440 V	460 V	480 V	(480V)
	kVA	kVA	kVA	kVA	%	kVA	kVA	kVA	kVA	%
AMG 0180AA04 DBAM	12.0	12.0	12.0	11.0	82.54	13.0	13.5	14.5	15.5	84.29
AMG 0180BB04 DBAM	16.5	16.5	16.5	15.5	84.05	18.0	19.0	20.0	20.5	85.71
AMG 0180CC04 DBAM	20.0	20.0	20.0	19.0	85.59	21.5	22.5	23.5	24.0	87.26
AMG 0180DD04 DBAM	23.5	23.5	23.5	22.5	87.15	26.0	26.5	27.0	28.0	88.61
AMG 0200AA04 DBAM	28.5	30.0	30.0	28.5	87.29	31.5	33.0	35.0	36.5	88.44
AMG 0200BS04 DBAM	33.0	35.5	35.5	33.0	88.06	38.0	39.5	41.0	42.5	89.20
AMG 0200BB04 DBAM	38.0	39.5	39.5	38.0	88.74	42.5	44.0	46.0	47.5	89.81
AMG 0200CC04 DBAM	47.5	50.0	50.0	47.5	89.61	53.5	55.5	57.5	60.0	90.63
AMG 0200DD04 DBAM	56.0	59.0	59.0	56.0	90.17	61.5	65.5	68.0	71.0	91.17
AMG 0250AR04 DBAM	63.5	67.0	67.0	63.5	89.23	72.0	76.5	80.0	83.5	90.02
AMG 0250AS04 DBAM	77.5	81.5	81.5	73.5	89.50	88.5	93.5	98.0	105	90.34
AMG 0250AA04 DBAM	86.0	90.0	90.0	86.0	90.87	100	110	110	115	91.63
AMG 0250BS04 DBAM	100	105	105	95.0	91.37	110	115	120	125	92.26
AMG 0250BB04 DBAM	105	110	110	100	91.87	120	125	135	135	92.63
AMG 0250CC04 DBAM	115	120	120	105	92.44	125	135	140	145	93.16
AMG 0250DS04 DBAM	120	130	130	110	92.73	135	145	150	160	93.37
AMG 0250DD04 DBAM	130	140	140	125	93.05	145	155	165	170	93.68
AMG 0280AS04 DBAM	145	150	150	135	92.19	160	170	175	185	92.74
AMG 0280AA04 DBAM	150	160	160	140	92.39	170	180	190	200	92.92
AMG 0280AL04 DBAM	170	180	180	170	92.77	195	200	210	220	93.34
AMG 0280BB04 DBAM	190	200	200	175	93.20	205	220	230	240	93.71
AMG 0280CC04 DBAM	205	220	220	200	93.42	230	250	260	265	93.95
AMG 0280DD04 DBAM	245	260	260	230	93.68	275	290	300	315	94.20
AMG 0280DL04 DBAM	255	270	270	250	93.91	285	295	315	325	94.41
AMG 0315AS04 DBAM	275	290	290	270	93.64	295	320	330	350	94.11
AMG 0315AA04 DBAM	290	305	305	290	93.74	325	345	360	375	94.19
AMG 0315BS04 DBAM	315	330	330	310	94.15	350	370	385	405	94.54
AMG 0315BB04 DBAM	355	375	375	345	94.11	395	420	440	455	94.60
AMG 0315CC04 DBAM	385	410	410	370	94.80	430	455	475	500	95.17
AMG 0355AA04 DBPM	445	470	470	425	94.42	495	525	550	570	94.74
AMG 0355BB04 DBPM	485	510	510	465	94.86	535	570	600	625	95.12
AMG 0355BL04 DBPM	525	550	550	505	95.05	585	620	650	675	95.33
AMG 0355CC04 DBPM	570	600	600	540	95.36	625	655	685	720	95.53
AMG 0400AA04 DBPM	650	685	685	610	94.56	705	750	785	815	94.69
AMG 0400BS04 DBPM	720	760	760	685	94.92	805	840	880	925	95.02
AMG 0400BB04 DBPM	760	805	805	720	95.07	835	880	925	960	95.18
AMG 0400CS04 DBPM	880	925	925	805	95.22	960	1015	1060	1120	95.35
AMG 0400CC04 DBPM	955	1000	1000	880	95.40	1045	1105	1155	1205	95.53
AMG 0400DD04 DBPM	1145	1205	1205	1065	95.73	1250	1325	1380	1415	95.85
AMG 0450AA04 DBPM	1260	1330	1330	1170	95.54	1375	1465	1530	1600	95.71
AMG 0450BB04 DBPM	1445	1525	1525	1340	95.73	1580	1670	1750	1825	95.90
AMG 0450CC04 DBPM	1605	1690	1690	1530	96.04	1755	1860	1945	2030	96.16
AMG 0450DD04 DBPM	1660	1750	1750	1590	96.14	1810	1925	2010	2100	96.26

Performance data

AMG 0180

Power range

Insulation class H / temperature rise H
14.0 – 27.0 kVA @ 400 V / 50 Hz / 1500 rpm
18.0 – 32.5 kVA @ 480 V / 60 Hz / 1800 rpm

Insulation class H / temperature rise F
12.0 – 23.5 kVA @ 400 V / 50 Hz / 1500 rpm
15.5 – 28.0 kVA @ 480 V / 60 Hz / 1800 rpm

Rated supply voltages

50 Hz: 380 – 440 V (Y), 220 – 254 V (Δ)
60 Hz: 380 – 480 V (Y), 220 – 277 V (Δ)

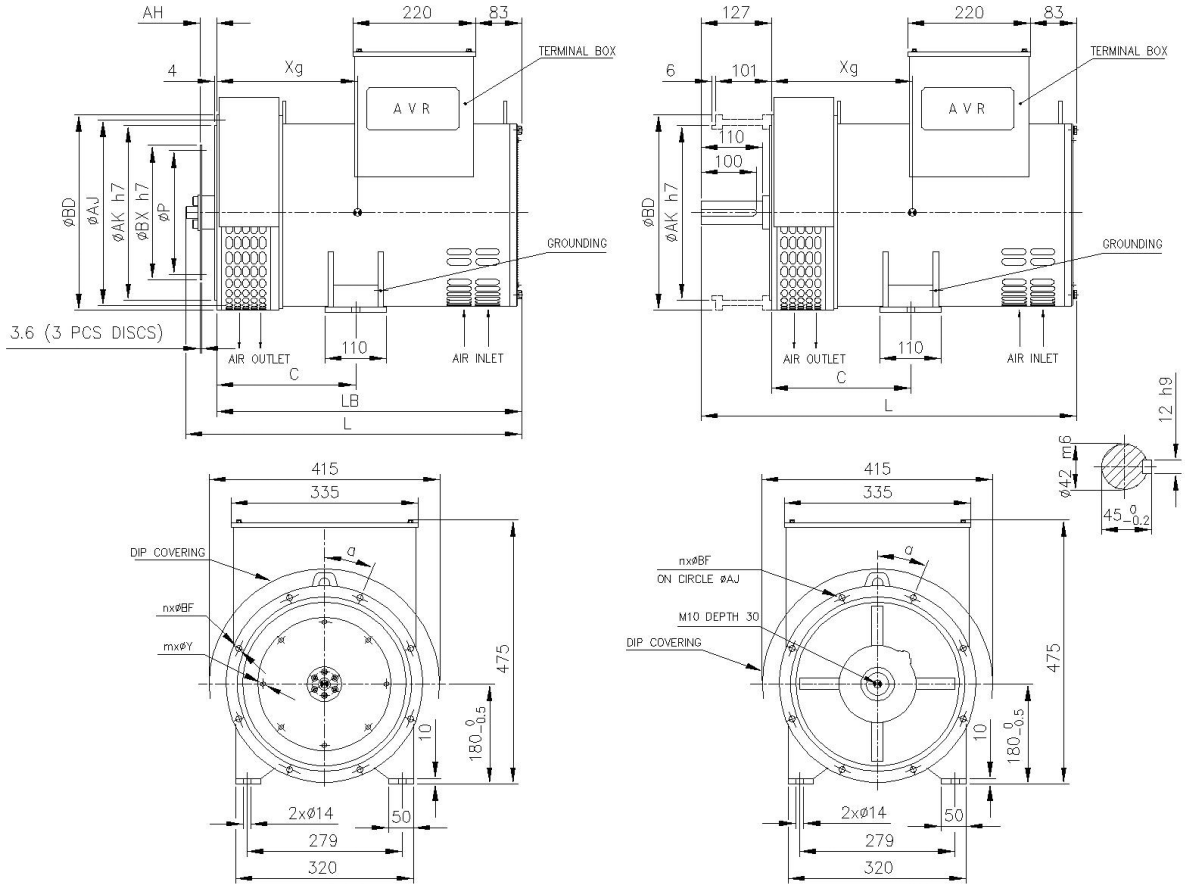
YY and ΔΔ (12 leads) connections are also possible.

Performance data

Type	H-class (120 K), ambient 45°C, continuous, p.f. 0.8																
	50Hz								Efficiency	60 Hz							Efficiency
	380 V	380 V	400 V	400 V	415 V	415 V	440 V	440 V	(400 V)	415 V	415 V	440 V	440 V	460 V	460 V	480 V	480 V	(480 V)
	kVA	kW	kVA	kW	kVA	kW	kVA	kW	%	kVA	kW	kVA	kW	kVA	kW	kVA	kW	%
AMG 0180AA04 DBAM	14.0	11.2	14.0	11.2	14.0	11.2	13.0	10.4	81.33	15.0	12.0	16.0	12.8	17.0	13.6	18.0	14.4	83.24
AMG 0180BB04 DBAM	19.0	15.2	19.0	15.2	19.0	15.2	18.0	14.4	83.08	21.0	16.8	22.0	17.6	23.0	18.4	24.0	19.2	84.79
AMG 0180CC04 DBAM	23.0	18.4	23.0	18.4	23.0	18.4	22.0	17.6	84.80	25.0	20.0	26.0	20.8	27.0	21.6	28.0	22.4	86.58
AMG 0180DD04 DBAM	27.0	21.6	27.0	21.6	27.0	21.6	26.0	20.8	86.53	30.0	24.0	30.5	24.4	31.5	25.2	32.5	26.0	88.12

Type	F-class (95 K), ambient 50°C, continuous, p.f. 0.8																
	50Hz								Efficiency	60 Hz							Efficiency
	380 V	380 V	400 V	400 V	415 V	415 V	440 V	440 V	(400 V)	415 V	415 V	440 V	440 V	460 V	460 V	480 V	480 V	(480 V)
	kVA	kW	kVA	kW	kVA	kW	kVA	kW	%	kVA	kW	kVA	kW	kVA	kW	kVA	kW	%
AMG 0180AA04 DBAM	12.0	9.6	12.0	9.6	12.0	9.6	11.0	8.8	82.54	13.0	10.4	13.5	10.8	14.5	11.6	15.5	12.4	84.29
AMG 0180BB04 DBAM	16.5	13.2	16.5	13.2	16.5	13.2	15.5	12.4	84.05	18.0	14.4	19.0	15.2	20.0	16.0	20.5	16.4	85.71
AMG 0180CC04 DBAM	20.0	16.0	20.0	16.0	20.0	16.0	19.0	15.2	85.59	21.5	17.2	22.5	18.0	23.5	18.8	24.0	19.2	87.26
AMG 0180DD04 DBAM	23.5	18.8	23.5	18.8	23.5	18.8	22.5	18.0	87.15	26.0	20.8	26.5	21.2	27.0	21.6	28.0	22.4	88.61

Drawings



Single bearing

Frame dimensions (mm)

Type	C	LB	L	Xg
AMG 0180AA04 DBAM	250	458	520	200
AMG 0180BB04 DBAM	250	485	547	215
AMG 0180CC04 DBAM	250	515	577	225
AMG 0180DD04 DBAM	250	548	610	240

Flange dimensions (mm)

S.A.E	AK	AJ	BD	BF	n	a
3	409.6	428.6	450	11	12	15°
4	362.0	381.0	405	11	12	15°
5	314.3	333.4	355	11	8	22.5°

Flex disc dimensions (mm)

S.A.E	BX	P	AH	Y	m
$11^{1/2}$	352.4	333.4	39.6	11	8
$7^{1/2}$	241.3	222.3	30.2	9	8
$6^{1/2}$	215.9	200.0	30.2	9	6

Transportation parameters

Type	Net weight (kg)	Gross weight (kg)	Packing dimensions (mm)
AMG 0180AA04 DBAM	115	162	845x550x710
AMG 0180BB04 DBAM	125	172	845x550x710
AMG 0180CC04 DBAM	140	187	845x550x710
AMG 0180DD04 DBAM	155	202	845x550x710

Double bearing

Frame dimensions (mm)

Type	C	L	Xg
AMG 0180AA04 DAAM	250	585	200
AMG 0180BB04 DAAM	250	612	215
AMG 0180CC04 DAAM	250	642	225
AMG 0180DD04 DAAM	250	675	240

Flange dimensions (mm)

S.A.E	AK	AJ	BD	BF	n	a
3	409.6	428.6	450	11	12	15°
4	362.0	381.0	405	11	12	15°
5	314.3	333.4	355	11	8	22.5°

Transportation parameters

Type	Net weight (kg)	Gross weight (kg)	Packing dimensions (mm)
AMG 0180AA04 DAAM	125	173	890x550x710
AMG 0180BB04 DAAM	135	183	890x550x710
AMG 0180CC04 DAAM	150	198	890x550x710
AMG 0180DD04 DAAM	165	213	890x550x710

Performance data

AMG 0200

Power range

Insulation class H / temperature rise H
35 – 69 kVA @ 400 V / 50 Hz / 1500 rpm
42.5 – 83 kVA @ 480 V / 60 Hz / 1800 rpm

Insulation class H / temperature rise F
30 – 59 kVA @ 400 V / 50 Hz / 1500 rpm
36.5 – 71 kVA @ 480 V / 60 Hz / 1800 rpm

Rated supply voltages

50 Hz: 380 – 440 V (Y), 220 – 254 V (Δ)
60 Hz: 380 – 480 V (Y), 220 – 277 V (Δ)

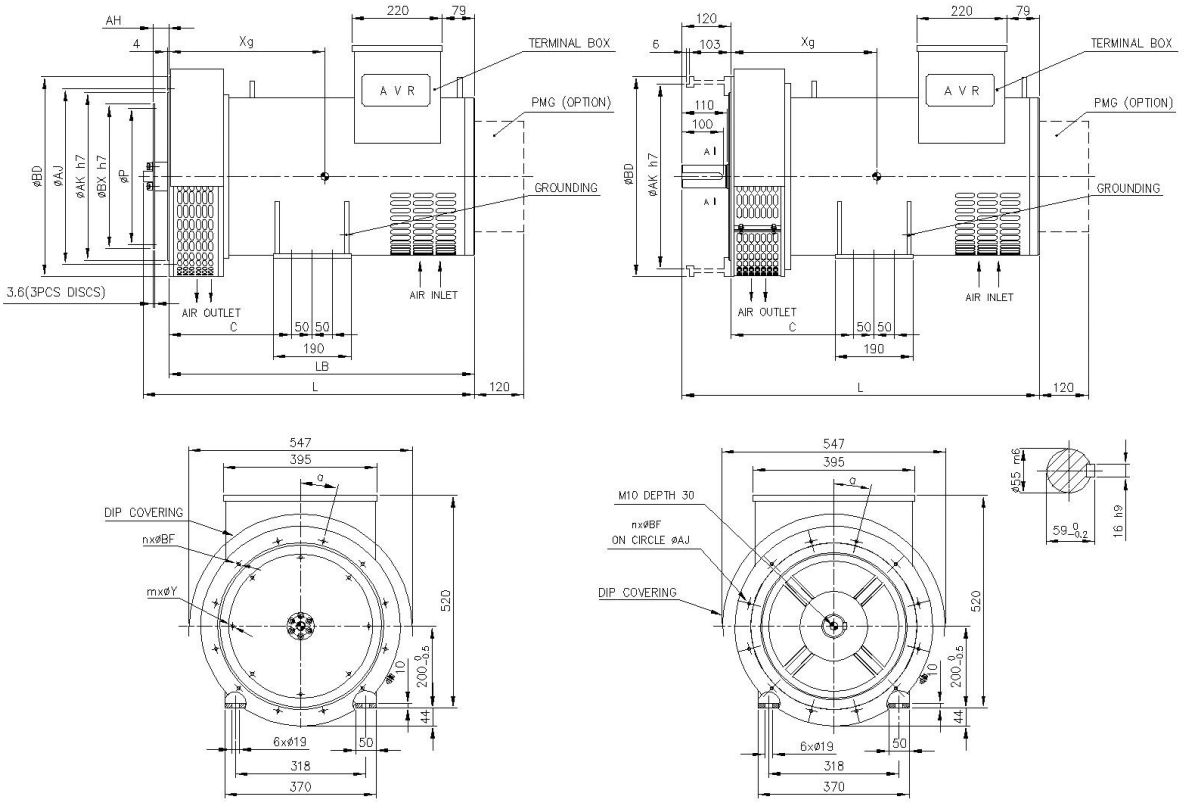
YY and ΔΔ (12 leads) connections are also possible.

Performance data

Type	H-class (120 K), ambient 45°C, continuous, p.f. 0.8																	
	50Hz								Efficiency	60 Hz								Efficiency
	380 V	380 V	400 V	400 V	415 V	415 V	440 V	440 V	(400 V)	415 V	415 V	440 V	440 V	460 V	460 V	480 V	480 V	(480 V)
	kVA	kW	kVA	kW	kVA	kW	kVA	kW	%	kVA	kW	kVA	kW	kVA	kW	kVA	kW	%
AMG 0200AA04 DBAM	33.0	26.4	35.0	28.0	35.0	28.0	33.0	26.4	86.63	37.0	29.6	38.5	30.8	40.5	32.4	42.5	34.0	87.93
AMG 0200BS04 DBAM	38.5	30.8	41.5	33.2	41.5	33.2	38.5	30.8	87.42	44.0	35.2	46.0	36.8	48.0	38.4	49.5	39.6	88.75
AMG 0200BB04 DBAM	44.0	35.2	46.0	36.8	46.0	36.8	44.0	35.2	88.15	49.5	39.6	51.5	41.2	53.5	42.8	55.0	44.0	89.43
AMG 0200CC04 DBAM	55.0	44.0	58.0	46.4	58.0	46.4	55.0	44.0	89.08	62.5	50.0	64.5	51.6	67.0	53.6	70.0	56.0	90.26
AMG 0200DD04 DBAM	65.5	52.4	69.0	55.2	69.0	55.2	65.5	52.4	89.61	72.0	57.6	76.5	61.2	79.0	63.2	83.0	66.4	90.77

Type	F-class (95 K), ambient 50°C, continuous, p.f. 0.8																	
	50Hz								Efficiency	60 Hz								Efficiency
	380 V	380 V	400 V	400 V	415 V	415 V	440 V	440 V	(400 V)	415 V	415 V	440 V	440 V	460 V	460 V	480 V	480 V	(480 V)
	kVA	kW	kVA	kW	kVA	kW	kVA	kW	%	kVA	kW	kVA	kW	kVA	kW	kVA	kW	%
AMG 0200AA04 DBAM	28.5	22.8	30.0	24.0	30.0	24.0	28.5	22.8	87.29	31.5	25.2	33.0	26.4	35.0	28.0	36.5	29.2	88.44
AMG 0200BS04 DBAM	33.0	26.4	35.5	28.4	35.5	28.4	33.0	26.4	88.06	38.0	30.4	39.5	31.6	41.0	32.8	42.5	34.0	89.20
AMG 0200BB04 DBAM	38.0	30.4	39.5	31.6	39.5	31.6	38.0	30.4	88.74	42.5	34.0	44.0	35.2	46.0	36.8	47.5	38.0	89.81
AMG 0200CC04 DBAM	47.5	38.0	50.0	40.0	50.0	40.0	47.5	38.0	89.61	53.5	42.8	55.5	44.4	57.5	46.0	60.0	48.0	90.63
AMG 0200DD04 DBAM	56.0	44.8	59.0	47.2	59.0	47.2	56.0	44.8	90.17	61.5	49.2	65.5	52.4	68.0	54.4	71.0	56.8	91.17

Drawings



Single bearing

Frame dimensions (mm)

Type	C	LB	L	Xg
AMG 0200AA04 DBAM	209	601	665	285
AMG 0200BS04 DBAM	259	646	710	305
AMG 0200BB04 DBAM	259	646	710	310
AMG 0200CC04 DBAM	259	701	765	340
AMG 0200DD04 DBAM	299	746	810	380

Flange dimensions (mm)

S.A.E	AK	AJ	BD	BF	n	a
3	409.6	428.6	488	11	12	15°
4	362.0	381.0	488	11	12	15°

Flex disc dimensions (mm)

S.A.E	BX	P	AH	Y	m
$11^{1/2}$	352.4	333.4	39.6	11	8
10	314.3	295.3	54	11	8

Transportation parameters

Type	Net weight (kg)	Gross weight (kg)	Packing dimensions (mm)
AMG 0200AA04 DBAM	190	263	1160x685x820
AMG 0200BS04 DBAM	210	283	1160x685x820
AMG 0200BB04 DBAM	220	293	1160x685x820
AMG 0200CC04 DBAM	250	323	1160x685x820
AMG 0200DD04 DBAM	265	338	1160x685x820

Double bearing

Frame dimensions (mm)

Type	C	L	Xg
AMG 0200AA04 DAAM	209	727	260
AMG 0200BS04 DAAM	259	772	280
AMG 0200BB04 DAAM	259	772	285
AMG 0200CC04 DAAM	259	827	315
AMG 0200DD04 DAAM	299	872	355

Flange dimensions (mm)

S.A.E	AK	AJ	BD	BF	n	a
3	409.6	428.6	488	11	12	15°
4	362.0	381.0	488	11	12	15°

Transportation parameters

Type	Net weight (kg)	Gross weight (kg)	Packing dimensions (mm)
AMG 0200AA04 DAAM	205	278	1160x685x820
AMG 0200BS04 DAAM	225	298	1160x685x820
AMG 0200BB04 DAAM	235	308	1160x685x820
AMG 0200CC04 DAAM	265	338	1160x685x820
AMG 0200DD04 DAAM	280	353	1160x685x820

Generators with PMG:

1) Weight increase 15KG for net weight and gross weight;

2) No change for packing demensions.

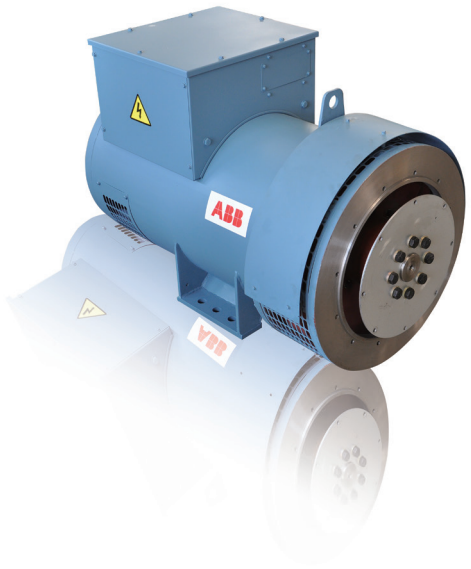
Performance data

AMG 0250

Power range

Insulation class H / temperature rise H
78 – 163 kVA @ 400 V / 50 Hz / 1500 rpm
97 – 200 kVA @ 480 V / 60 Hz / 1800 rpm

Insulation class H / temperature rise F
67 – 140 kVA @ 400 V / 50 Hz / 1500 rpm
83.5 – 170 kVA @ 480 V / 60 Hz / 1800 rpm



Rated supply voltages

50 Hz: 380 – 440 V (Y), 220 – 254 V (Δ)
60 Hz: 380 – 480 V (Y), 220 – 277 V (Δ)

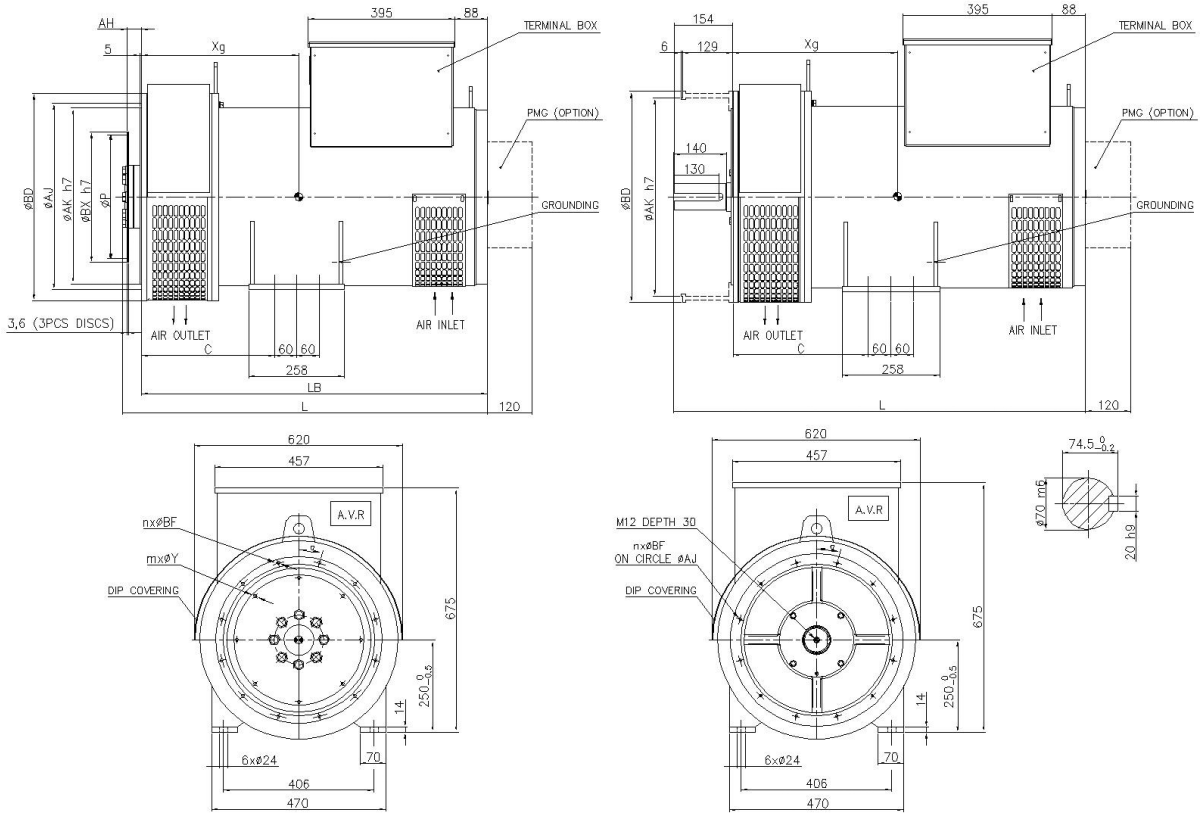
YY and ΔΔ (12 leads) connections are also possible.

Performance data

Type	H-class (120 K), ambient 45°C, continuous, p.f. 0.8																
	50Hz								Efficiency	60 Hz								Efficiency
	380 V	380 V	400 V	400 V	415 V	415 V	440 V	440 V	(400 V)	415 V	415 V	440 V	440 V	460 V	460 V	480 V	480 V	(480 V)
	kVA	kW	kVA	kW	kVA	kW	kVA	kW	%	kVA	kW	kVA	kW	kVA	kW	kVA	kW	%
AMG 0250AR04 DBAM	74.0	59.2	78.0	62.4	78.0	62.4	74.0	59.2	88.70	84.0	67.2	89.0	71.2	93.0	74.4	97.0	77.6	89.64
AMG 0250AS04 DBAM	90.0	72.0	95.0	76.0	95.0	76.0	85.5	68.4	88.58	105	84.0	110	88.0	115	92.0	120	96	89.65
AMG 0250AA04 DBAM	100	80	105	84	105	84	100	80	90.24	115	92	125	100	130	104	135	108	91.07
AMG 0250BS04 DBAM	115	92	120	96	120	96	110	88	90.77	130	104	135	108	140	112	145	116	91.80
AMG 0250BB04 DBAM	125	100	130	104	130	104	115	92	91.30	140	112	145	116	155	124	160	128	92.21
AMG 0250CC04 DBAM	135	108	140	112	140	112	125	100	91.91	145	116	155	124	165	132	170	136	92.78
AMG 0250DS04 DBAM	140	112	150	120	150	120	130	104	92.43	160	128	170	136	175	140	185	148	93.17
AMG 0250DD04 DBAM	150	120	163	130	163	130	145	116	92.67	170	136	180	144	190	152	200	160	93.40

Type	F-class (95 K), ambient 50°C, continuous, p.f. 0.8																
	50Hz								Efficiency	60 Hz								Efficiency
	380 V	380 V	400 V	400 V	415 V	415 V	440 V	440 V	(400 V)	415 V	415 V	440 V	440 V	460 V	460 V	480 V	480 V	(480 V)
	kVA	kW	kVA	kW	kVA	kW	kVA	kW	%	kVA	kW	kVA	kW	kVA	kW	kVA	kW	%
AMG 0250AR04 DBAM	63.5	50.8	67.0	53.6	67.0	53.6	63.5	50.8	89.23	72.0	57.6	76.5	61.2	80.0	64.0	83.5	66.8	90.02
AMG 0250AS04 DBAM	77.5	62.0	81.5	65.2	81.5	65.2	73.5	58.8	89.50	88.5	70.8	93.5	74.8	98.0	78.4	105	84	90.34
AMG 0250AA04 DBAM	86.0	68.8	90.0	72.0	90.0	72.0	86.0	69	90.87	100	80	110	88	110	88	115	92	91.63
AMG 0250BS04 DBAM	100	80	105	84	105	84	95.0	76	91.37	110	88	115	92	120	96	125	100	92.26
AMG 0250BB04 DBAM	105	84	110	88	110	88	100	80	91.87	120	96	125	100	135	108	135	108	92.63
AMG 0250CC04 DBAM	115	92	120	96	120	96	105	84	92.44	125	100	135	108	140	112	145	116	93.16
AMG 0250DS04 DBAM	120	96	130	104	130	104	110	88	92.73	135	108	145	116	150	120	160	128	93.37
AMG 0250DD04 DBAM	130	104	140	112	140	112	125	100	93.05	145	116	155	124	165	132	170	136	93.68

Drawings



Single bearing

Frame dimensions (mm)

Type	C	LB	L	Xg
AMG 0250AR04 DBAM	318	772	825	390
AMG 0250AS04 DBAM	318	772	825	390
AMG 0250AA04 DBAM	318	772	825	400
AMG 0250BS04 DBAM	358	827	880	420
AMG 0250BB04 DBAM	358	827	880	430
AMG 0250CC04 DBAM	358	869	920	450
AMG 0250DS04 DBAM	358	932	985	470
AMG 0250DD04 DBAM	358	932	985	480

Flange dimensions (mm)

S.A.E	AK	AJ	BD	BF	n	a
3	409.6	428.6	558	11	12	15°
2	447.7	466.7	558	11	12	15°

Flex disc dimensions (mm)

S.A.E	BX	P	AH	Y	m
$11^{1/2}$	352.4	333.4	39.6	11	8

Transportation parameters

Type	Net weight (kg)	Gross weight (kg)	Packing dimensions (mm)
AMG 0250AR04 DBAM	385	465	1320x725x930
AMG 0250AS04 DBAM	385	465	1320x725x930
AMG 0250AA04 DBAM	420	500	1320x725x930
AMG 0250BS04 DBAM	455	535	1320x725x930
AMG 0250BB04 DBAM	480	560	1320x725x930
AMG 0250CC04 DBAM	520	600	1320x725x930
AMG 0250DS04 DBAM	560	640	1320x725x930
AMG 0250DD04 DBAM	590	670	1320x725x930

Double bearing

Frame dimensions (mm)

Type	C	L	Xg
AMG 0250AR04 DAAM	318	935	375
AMG 0250AS04 DAAM	318	935	375
AMG 0250AA04 DAAM	318	935	385
AMG 0250BS04 DAAM	358	990	405
AMG 0250BB04 DAAM	358	990	415
AMG 0250CC04 DAAM	358	1030	435
AMG 0250DS04 DAAM	358	1095	455
AMG 0250DD04 DAAM	358	1095	465

Flange dimensions (mm)

S.A.E	AK	AJ	BD	BF	n	a
3	409.6	428.6	558	11	12	15°
2	447.7	466.7	558	11	12	15°

Transportation parameters

Type	Net weight (kg)	Gross weight (kg)	Packing dimensions (mm)
AMG 0250AR04 DAAM	395	475	1380x725x935
AMG 0250AS04 DAAM	395	475	1380x725x935
AMG 0250AA04 DAAM	430	510	1380x725x935
AMG 0250BS04 DAAM	465	545	1380x725x935
AMG 0250BB04 DAAM	490	570	1380x725x935
AMG 0250CC04 DAAM	530	610	1380x725x935
AMG 0250DS04 DAAM	570	650	1380x725x935
AMG 0250DD04 DAAM	600	680	1380x725x935

Generators with PMG:

1) Weight increase 20KG for net weight and gross weight;

2) No change for packing demensions.

Performance data

AMG 0280

Power range

Insulation class H / temperature rise H
175 – 313 kVA @ 400 V / 50 Hz / 1500 rpm
215 – 380 kVA @ 480 V / 60 Hz / 1800 rpm

Insulation class H / temperature rise F
150 – 270 kVA @ 400 V / 50 Hz / 1500 rpm
185 – 325 kVA @ 480 V / 60 Hz / 1800 rpm

Rated supply voltages

50 Hz: 380 – 440 V (Y), 220 – 254 V (Δ)
60 Hz: 380 – 480 V (Y), 220 – 277 V (Δ)

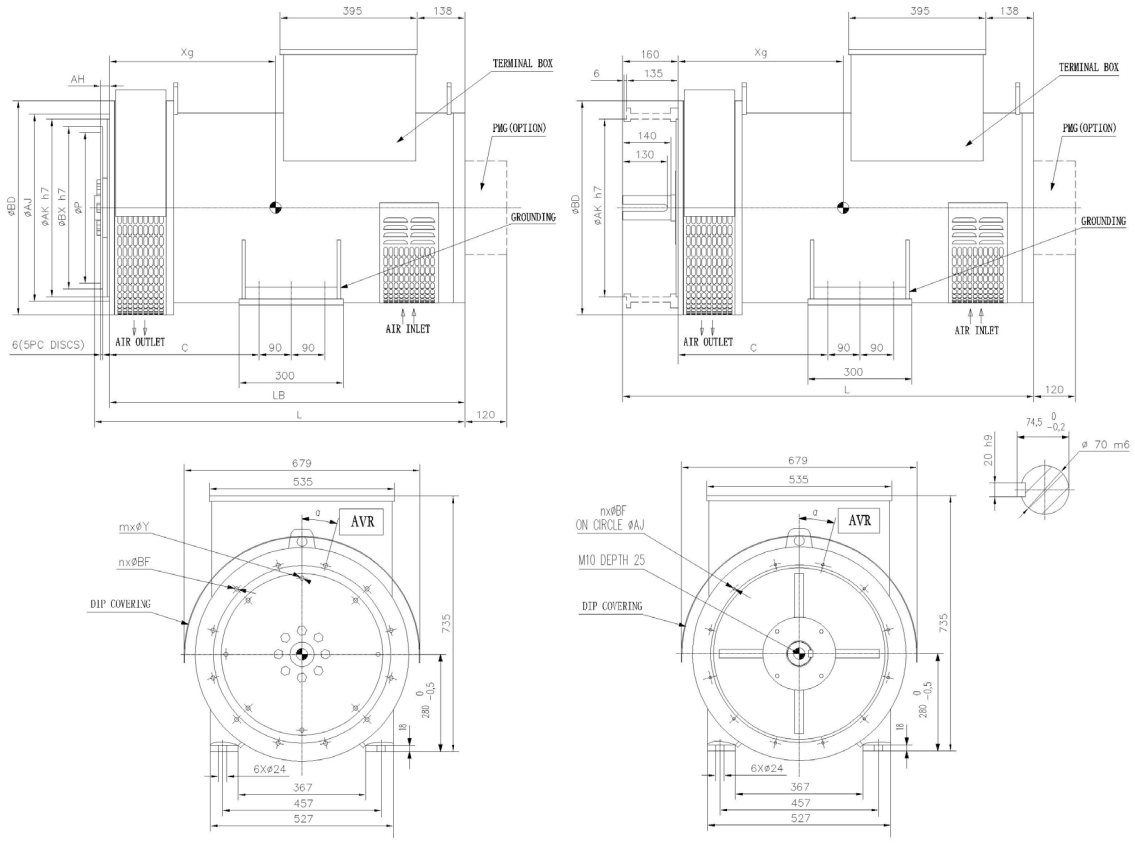
YY and ΔΔ (12 leads) connections are also possible.

Performance data

Type	H-class (120 K), ambient 45°C, continuous, p.f. 0.8																	
	50Hz								Efficiency	60 Hz								Efficiency
	380 V	380 V	400 V	400 V	415 V	415 V	440 V	440 V	(400 V)	415 V	415 V	440 V	440 V	460 V	460 V	480 V	480 V	(480 V)
	kVA	kW	kVA	kW	kVA	kW	kVA	kW	%	kVA	kW	kVA	kW	kVA	kW	kVA	kW	%
AMG 0280AS04 DBAM	165	132	175	140	175	140	155	124	91.68	185	148	195	156	205	164	215	172	92.39
AMG 0280AA04 DBAM	175	140	185	148	185	148	165	132	91.90	195	156	210	168	220	176	230	184	92.56
AMG 0280AL04 DBAM	200	160	210	168	210	168	195	156	92.28	225	180	235	188	245	196	255	204	93.01
AMG 0280BB04 DBAM	220	176	235	188	235	188	205	164	92.77	240	192	255	204	270	216	280	224	93.46
AMG 0280CC04 DBAM	240	192	255	204	255	204	230	184	93.01	270	216	290	232	300	240	310	248	93.65
AMG 0280DD04 DBAM	285	228	300	240	300	240	270	216	93.31	320	256	335	268	350	280	365	292	93.94
AMG 0280DL04 DBAM	295	236	313	250	313	250	290	232	93.52	330	264	345	276	365	292	380	304	94.13

Type	F-class (95 K), ambient 50°C, continuous, p.f. 0.8																	
	50Hz								Efficiency	60 Hz								Efficiency
	380 V	380 V	400 V	400 V	415 V	415 V	440 V	440 V	(400 V)	415 V	415 V	440 V	440 V	460 V	460 V	480 V	480 V	(480 V)
	kVA	kW	kVA	kW	kVA	kW	kVA	kW	%	kVA	kW	kVA	kW	kVA	kW	kVA	kW	%
AMG 0280AS04 DBAM	145	116	150	120	150	120	135	108	92.19	160	128	170	136	175	140	185	148	92.74
AMG 0280AA04 DBAM	150	120	160	128	160	128	140	112	92.39	170	136	180	144	190	152	200	160	92.92
AMG 0280AL04 DBAM	170	136	180	144	180	144	170	136	92.77	195	156	200	160	210	168	220	176	93.34
AMG 0280BB04 DBAM	190	152	200	160	200	160	175	140	93.20	205	164	220	176	230	184	240	192	93.71
AMG 0280CC04 DBAM	205	164	220	176	220	176	200	160	93.42	230	184	250	200	260	208	265	212	93.95
AMG 0280DD04 DBAM	245	196	260	208	260	208	230	184	93.68	275	220	290	232	300	240	315	252	94.20
AMG 0280DL04 DBAM	255	204	270	216	270	216	250	200	93.91	285	228	295	236	315	252	325	260	94.41

Drawings



Single bearing

Frame dimensions (mm)

Type	C	LB	L	Xg
AMG 0280AS04 DBAM	339	914	958	430
AMG 0280AA04 DBAM	339	914	958	435
AMG 0280AL04 DBAM	339	914	958	440
AMG 0280BB04 DBAM	435	956	1000	445
AMG 0280CC04 DBAM	435	981	1025	455
AMG 0280DD04 DBAM	435	1024	1068	470
AMG 0280DL04 DBAM	435	1024	1068	475

Flange dimensions (mm)

S.A.E	AK	AJ	BD	BF	n	a
3	409.6	428.6	616	11	12	15°
2	447.7	466.7	616	11	12	15°
1	511.2	530.2	616	12.7	12	15°

Flex disc dimensions (mm)

S.A.E	BX	P	AH	Y	m
$11^{1/2}$	352.4	333.4	39.6	11	8
14	466.6	438.1	25.4	13.5	8

Transportation parameters

Type	Net weight (kg)	Gross weight (kg)	Packing dimensions (mm)
AMG 0280AS04 DBAM	610	719	1395x815x1045
AMG 0280AA04 DBAM	630	739	1395x815x1045
AMG 0280AL04 DBAM	660	769	1395x815x1045
AMG 0280BB04 DBAM	735	844	1395x815x1045
AMG 0280CC04 DBAM	785	894	1395x815x1045
AMG 0280DD04 DBAM	810	919	1395x815x1045
AMG 0280DL04 DBAM	820	929	1395x815x1045

Frame dimensions (mm)

Type	C	L	Xg
AMG 0280AS04 DAAM	339	1074	425
AMG 0280AA04 DAAM	339	1074	430
AMG 0280AL04 DAAM	339	1074	435
AMG 0280BB04 DAAM	435	1116	435
AMG 0280CC04 DAAM	435	1141	445
AMG 0280DD04 DAAM	435	1184	460
AMG 0280DL04 DAAM	435	1184	465

Flange dimensions (mm)

S.A.E	AK	AJ	BD	BF	n	a
3	409.6	428.6	616	11	12	15°
2	447.7	466.7	616	11	12	15°
1	511.2	530.2	616	12.7	12	15°

Transportation parameters

Type	Net weight (kg)	Gross weight (kg)	Packing dimensions (mm)
AMG 0280AS04 DAAM	615	727	1470x815x1045
AMG 0280AA04 DAAM	635	747	1470x815x1045
AMG 0280AL04 DAAM	665	777	1470x815x1045
AMG 0280BB04 DAAM	740	852	1470x815x1045
AMG 0280CC04 DAAM	790	902	1470x815x1045
AMG 0280DD04 DAAM	815	927	1470x815x1045
AMG 0280DL04 DAAM	825	937	1470x815x1045

Generators with PMG:

1) Weight increase 20KG for net weight and gross weight;

2) No change for packing demensions.

Performance data

AMG 0315

Power range

Insulation class H / temperature rise H
335 – 475 kVA @ 400 V / 50 Hz / 1500 rpm
405 – 580 kVA @ 480 V / 60 Hz / 1800 rpm

Insulation class H / temperature rise F
290 – 410 kVA @ 400 V / 50 Hz / 1500 rpm
350 – 500 kVA @ 480 V / 60 Hz / 1800 rpm

Rated supply voltages

50 Hz: 380 – 440 V (Y), 220 – 254 V (Δ)
60 Hz: 380 – 480 V (Y), 220 – 277 V (Δ)

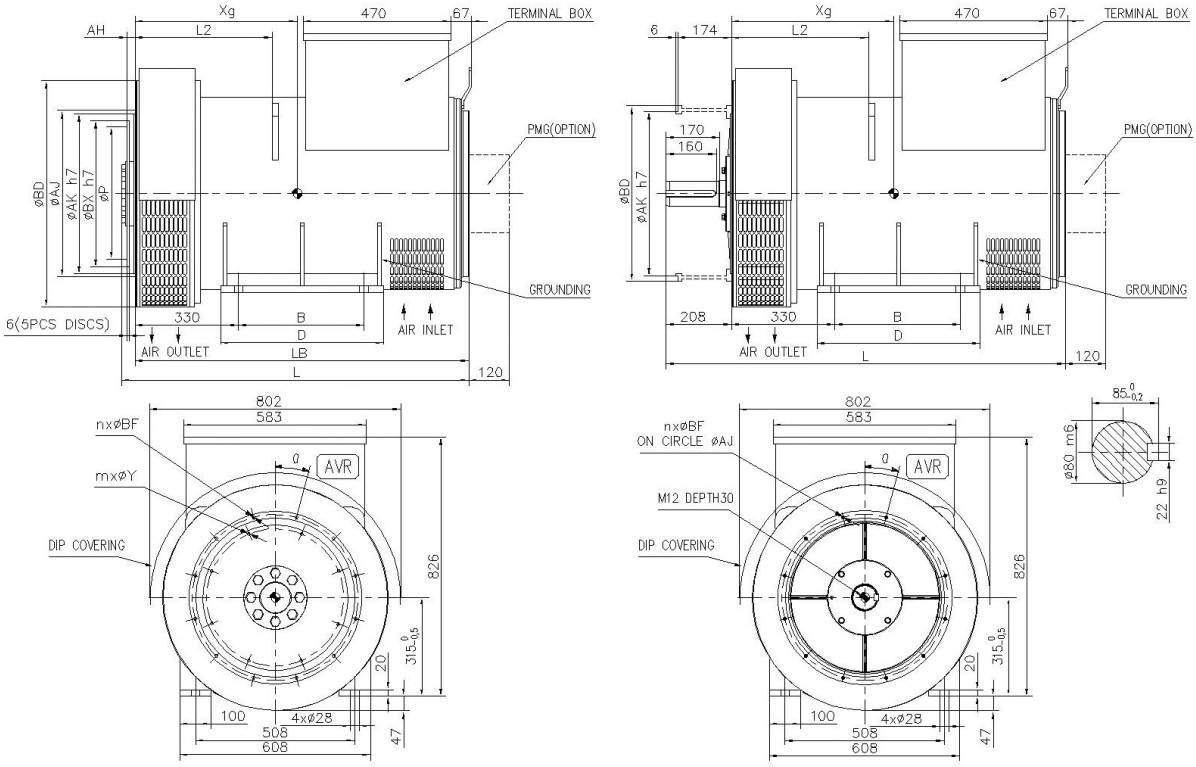
YY and ΔΔ (12 leads) connections are also possible.

Performance data

Type	H-class (120 K), ambient 45°C, continuous, p.f. 0.8																
	50Hz								Efficiency	60 Hz							Efficiency
	380 V	380 V	400 V	400 V	415 V	415 V	440 V	440 V	(400 V)	415 V	415 V	440 V	440 V	460 V	460 V	480 V	480 V	(480 V)
	kVA	kW	kVA	kW	kVA	kW	kVA	kW	%	kVA	kW	kVA	kW	kVA	kW	kVA	kW	%
AMG 0315AS04 DBAM	320	256	335	268	335	268	315	252	93.12	345	276	370	296	385	308	405	324	93.75
AMG 0315AA04 DBAM	335	268	355	284	355	284	335	268	93.20	380	304	400	320	420	336	435	348	93.80
AMG 0315BS04 DBAM	365	292	385	308	385	308	360	288	93.69	410	328	430	344	450	360	470	376	94.24
AMG 0315BB04 DBAM	415	332	435	348	435	348	400	320	93.57	460	368	490	392	510	408	530	424	94.19
AMG 0315CC04 DBAM	450	360	475	380	475	380	430	344	94.43	500	400	530	424	555	444	580	464	94.92

Type	F-class (95 K), ambient 50°C, continuous, p.f. 0.8																
	50Hz								Efficiency	60 Hz							Efficiency
	380 V	380 V	400 V	400 V	415 V	415 V	440 V	440 V	(400 V)	415 V	415 V	440 V	440 V	460 V	460 V	480 V	480 V	(480 V)
	kVA	kW	kVA	kW	kVA	kW	kVA	kW	%	kVA	kW	kVA	kW	kVA	kW	kVA	kW	%
AMG 0315AS04 DBAM	275	220	290	232	290	232	270	216	93.64	295	236	320	256	330	264	350	280	94.11
AMG 0315AA04 DBAM	290	232	305	244	305	244	290	232	93.74	325	260	345	276	360	288	375	300	94.19
AMG 0315BS04 DBAM	315	252	330	264	330	264	310	248	94.15	350	280	370	296	385	308	405	324	94.54
AMG 0315BB04 DBAM	355	284	375	300	375	300	345	276	94.11	395	316	420	336	440	352	455	364	94.60
AMG 0315CC04 DBAM	385	308	410	328	410	328	370	296	94.80	430	344	455	364	475	380	500	400	95.17

Drawings



Single bearing

Frame dimensions (mm)

Type	B	D	LB	L	L2	Xg
AMG 0315AS04 DBAM	280	400	955	1000	317	435
AMG 0315AA04 DBAM	280	400	955	1000	317	445
AMG 0315BS04 DBAM	325	445	1000	1045	362	460
AMG 0315BB04 DBAM	325	445	1000	1045	362	470
AMG 0315CC04 DBAM	400	520	1075	1120	437	505

Flange dimensions (mm)

S.A.E	AK	AJ	BD	BF	n	a
1	511.2	530.2	724	12.7	12	15°

Flex disc dimensions (mm)

S.A.E	BX	P	AH	Y	m
14	466.6	438.2	25.4	13.5	8

Transportation parameters

Type	Net weight (kg))	Gross weight (kg)	Packing dimensions (mm)
AMG 0315AS04 DBAM	905	1055	1505x945x1130
AMG 0315AA04 DBAM	925	1075	1505x945x1130
AMG 0315BS04 DBAM	990	1140	1505x945x1130
AMG 0315BB04 DBAM	1000	1150	1505x945x1130
AMG 0315CC04 DBAM	1155	1305	1505x945x1130

Double bearing

Frame dimensions (mm)

Type	B	D	L	L2	Xg
AMG 0315AS04 DAAM	280	400	1162	317	430
AMG 0315AA04 DAAM	280	400	1162	317	440
AMG 0315BS04 DAAM	325	445	1207	362	455
AMG 0315BB04 DAAM	325	445	1207	362	465
AMG 0315CC04 DAAM	400	520	1282	437	500

Flange dimensions (mm)

S.A.E	AK	AJ	BD	BF	n	a
1	511.2	530.2	640	12.7	12	15°

Transportation parameters

Type	Net weight (kg)	Gross weight (kg)	Packing dimensions (mm)
AMG 0315AS04 DAAM	915	1070	1570x945x1130
AMG 0315AA04 DAAM	935	1090	1570x945x1130
AMG 0315BS04 DAAM	1000	1155	1570x945x1130
AMG 0315BB04 DAAM	1010	1165	1570x945x1130
AMG 0315CC04 DAAM	1165	1320	1570x945x1130

Generators with PMG:

1) Weight increase 20KG for net weight and gross weight;

2) No change for packing demensions.

Performance data

AMG 0355

Power range

Insulation class H / temperature rise H
545 – 700 kVA @ 400 V / 50 Hz / 1500 rpm
665 – 840 kVA @ 480 V / 60 Hz / 1800 rpm

Insulation class H / temperature rise F
470 – 600 kVA @ 400 V / 50 Hz / 1500 rpm
570 – 720 kVA @ 480 V / 60 Hz / 1800 rpm

Rated supply voltages

50 Hz: 380 – 440 V (Y), 220 – 254 V (Δ)
60 Hz: 380 – 480 V (Y), 220 – 277 V (Δ)

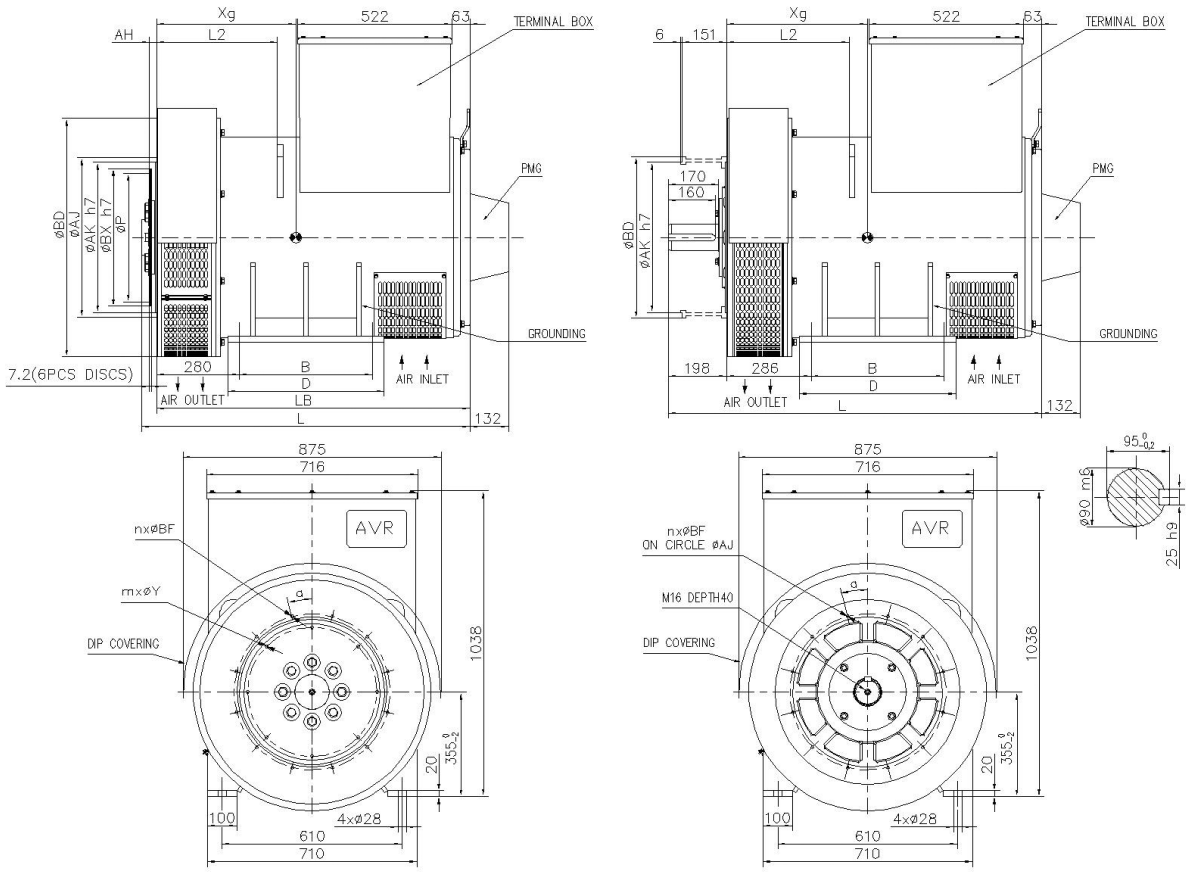
YY and ΔΔ (12 leads) connections are also possible.

Performance data

Type	H-class (120 K), ambient 45°C, continuous, p.f. 0.8																	
	50Hz								Efficiency	60 Hz								Efficiency
	380 V	380 V	400 V	400 V	415 V	415 V	440 V	440 V	(400 V)	415 V	415 V	440 V	440 V	460 V	460 V	480 V	480 V	(480 V)
	kVA	kW	kVA	kW	kVA	kW	kVA	kW	%	kVA	kW	kVA	kW	kVA	kW	kVA	kW	%
AMG 0355AA04 DBPM	520	416	545	436	545	436	495	396	94.05	575	460	610	488	640	512	665	532	94.50
AMG 0355BB04 DBPM	565	452	594	475	594	475	540	432	94.58	625	500	665	532	700	560	725	580	94.97
AMG 0355BL04 DBPM	610	488	640	512	640	512	585	468	94.76	680	544	720	576	755	604	785	628	95.14
AMG 0355CC04 DBPM	665	532	700	560	700	560	630	504	95.01	725	580	765	612	800	640	840	672	95.40

Type	F-class (95 K), ambient 50°C, continuous, p.f. 0.8																	
	50Hz								Efficiency	60 Hz								Efficiency
	380 V	380 V	400 V	400 V	415 V	415 V	440 V	440 V	(400 V)	415 V	415 V	440 V	440 V	460 V	460 V	480 V	480 V	(480 V)
	kVA	kW	kVA	kW	kVA	kW	kVA	kW	%	kVA	kW	kVA	kW	kVA	kW	kVA	kW	%
AMG 0355AA04 DBPM	445	356	470	376	470	376	425	340	94.42	495	396	525	420	550	440	570	456	94.74
AMG 0355BB04 DBPM	485	388	510	408	510	408	465	372	94.86	535	428	570	456	600	480	625	500	95.12
AMG 0355BL04 DBPM	525	420	550	440	550	440	505	404	95.05	585	468	620	496	650	520	675	540	95.33
AMG 0355CC04 DBPM	570	456	600	480	600	480	540	432	95.36	625	500	655	524	685	548	720	576	95.53

Drawings



Single bearing

Frame dimensions (mm)

Type	B	D	LB	L	L2	Xg
AMG 0355AA04 DBPM	450	530	1062	1114	408	495
AMG 0355BB04 DBPM	550	630	1142	1194	488	530
AMG 0355BL04 DBPM	550	630	1142	1194	488	545
AMG 0355CC04 DBPM	550	630	1182	1234	528	565

Flange dimensions (mm)

S.A.E	AK	AJ	BD	BF	n	a
1	511.2	530.2	810	12.7	12	15°
1/2	584.2	619.3	810	14	12	15°
0	647.7	679.5	810	14	16	11.25°

Flex disc dimensions (mm)

S.A.E	BX	P	AH	Y	m
$11^{1/2}$	352.4	333.4	39.6	11	8
14	466.6	438.2	25.4	13.5	8
18	571.5	542.9	15.7	18	6

Transportation parameters

Type	Net weight (kg)	Gross weight (kg)	Packing dimensions (mm)
AMG 0355AA04 DBPM	1390	1594	1650x1020x1335
AMG 0355BB04 DBPM	1530	1734	1650x1020x1335
AMG 0355BL04 DBPM	1590	1794	1650x1020x1335
AMG 0355CC04 DBPM	1710	1914	1650x1020x1335

Double bearing

Frame dimensions (mm)

Type	B	D	L	L2	Xg
AMG 0355AA04 DAPM	450	530	1266	414	505
AMG 0355BB04 DAPM	550	630	1346	494	540
AMG 0355BL04 DAPM	550	630	1346	494	555
AMG 0355CC04 DAPM	550	630	1386	534	575

Flange dimensions (mm)

S.A.E	AK	AJ	BD	BF	n	a
1	511.2	530.2	708	13	12	15°
1/2	584.2	619.3	708	14	12	15°
0	647.7	679.5	708	14	16	11.25°

Transportation parameters

Type	Net weight (kg)	Gross weight (kg)	Packing dimensions (mm)
AMG 0355AA04 DAPM	1430	1636	1700x1020x1335
AMG 0355BB04 DAPM	1580	1786	1700x1020x1335
AMG 0355BL04 DAPM	1640	1846	1700x1020x1335
AMG 0355CC04 DAPM	1760	1966	1700x1020x1335

Performance data

AMG 0400

Power range

Insulation class H / temperature rise H
795 – 1400 kVA @ 400 V / 50 Hz / 1500 rpm
950 – 1650 kVA @ 480 V / 60 Hz / 1800 rpm

Insulation class H / temperature rise F
685 – 1205 kVA @ 400 V / 50 Hz / 1500 rpm
815 – 1415 kVA @ 480 V / 60 Hz / 1800 rpm

Rated supply voltages

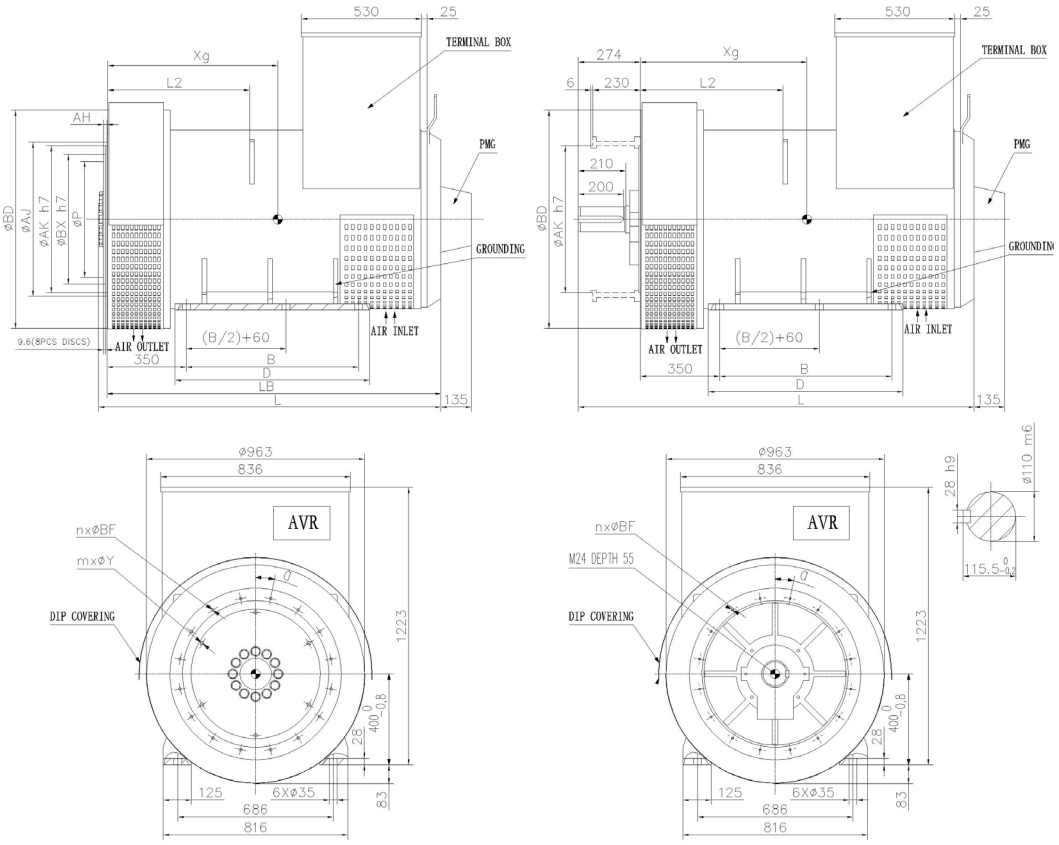
50 Hz: 380 – 440 V (Y), 220 – 254 V (Δ)
60 Hz: 380 – 480 V (Y), 220 – 277 V (Δ)

Performance data

Type	H-class (120 K), ambient 45°C, continuous, p.f. 0.8																	
	50Hz								Efficiency	60 Hz								Efficiency
	380 V	380 V	400 V	400 V	415 V	415 V	440 V	440 V	(400 V)	415 V	415 V	440 V	440 V	460 V	460 V	480 V	480 V	(480 V)
	kVA	kW	kVA	kW	kVA	kW	kVA	kW	%	kVA	kW	kVA	kW	kVA	kW	kVA	kW	%
AMG 0400AA04 DBPM	755	604	795	636	795	636	710	568	94.34	820	656	875	700	915	732	950	760	94.60
AMG 0400BS04 DBPM	840	672	885	708	885	708	795	636	94.73	935	748	980	784	1025	820	1075	860	94.95
AMG 0400BB04 DBPM	885	708	935	748	935	748	840	672	94.87	970	776	1025	820	1075	860	1120	896	95.10
AMG 0400CS04 DBPM	1025	820	1075	860	1075	860	935	748	95.04	1120	896	1180	944	1235	988	1305	1044	95.27
AMG 0400CC04 DBPM	1110	888	1165	932	1165	932	1025	820	95.20	1215	972	1285	1028	1345	1076	1400	1120	95.45
AMG 0400DD04 DBPM	1335	1068	1400	1120	1400	1120	1240	992	95.57	1455	1164	1540	1232	1605	1284	1650	1320	95.81

Type	F-class (95 K), ambient 50°C, continuous, p.f. 0.8																	
	50Hz								Efficiency	60 Hz								Efficiency
	380 V	380 V	400 V	400 V	415 V	415 V	440 V	440 V	(400 V)	415 V	415 V	440 V	440 V	460 V	460 V	480 V	480 V	(480 V)
	kVA	kW	kVA	kW	kVA	kW	kVA	kW	%	kVA	kW	kVA	kW	kVA	kW	kVA	kW	%
AMG 0400AA04 DBPM	650	520	685	548	685	548	610	488	94.56	705	564	750	600	785	628	815	652	94.69
AMG 0400BS04 DBPM	720	576	760	608	760	608	685	548	94.92	805	644	840	672	880	704	925	740	95.02
AMG 0400BB04 DBPM	760	608	805	644	805	644	720	576	95.07	835	668	880	704	925	740	960	768	95.18
AMG 0400CS04 DBPM	880	704	925	740	925	740	805	644	95.22	960	768	1015	812	1060	848	1120	896	95.35
AMG 0400CC04 DBPM	955	764	1000	800	1000	800	880	704	95.40	1045	836	1105	884	1155	924	1205	964	95.53
AMG 0400DD04 DBPM	1145	916	1205	964	1205	964	1065	852	95.73	1250	1000	1325	1060	1380	1104	1415	1132	95.85

Drawings



Single bearing

Frame dimensions (mm)

Type	B	D	LB	L	L2	Xg
AMG 0400AA04 DBPM	460	560	1184	1221	471	590
AMG 0400BS04 DBPM	520	620	1274	1311	541	650
AMG 0400BB04 DBPM	520	620	1274	1311	541	660
AMG 0400CS04 DBPM	600	700	1354	1391	581	690
AMG 0400CC04 DBPM	600	700	1354	1391	581	700
AMG 0400DD04 DBPM	760	860	1474	1511	621	770

Flange dimensions (mm)

S.A.E	AK	AJ	BD	BF	n	a
0	647.7	679.5	963	14	16	11.25°
00	787.4	850.9	963	14	16	11.25°

Flex disc dimensions (mm)

S.A.E	BX	P	AH	Y	m
18	571.5	542.9	15.7	18	6
21	673.1	641.3	0	18	12

Transportation parameters

Type	Net weight (kg)	Gross weight (kg)	Packing dimensions (mm)
AMG 0400AA04 DBPM	2070	2294	1705x1180x1565
AMG 0400BS04 DBPM	2260	2484	1705x1180x1565
AMG 0400BB04 DBPM	2330	2554	1705x1180x1565
AMG 0400CS04 DBPM	2510	2751	1905x1180x1565
AMG 0400CC04 DBPM	2580	2821	1905x1180x1565
AMG 0400DD04 DBPM	2910	3151	1905x1180x1565

Double bearing

Frame dimensions (mm)

Type	B	D	L	L2	Xg
AMG 0400AA04 DAPM	460	560	1458	471	575
AMG 0400BS04 DAPM	520	620	1548	541	635
AMG 0400BB04 DAPM	520	620	1548	541	645
AMG 0400CS04 DAPM	600	700	1628	581	675
AMG 0400CC04 DAPM	600	700	1628	581	685
AMG 0400DD04 DAPM	760	860	1748	621	750

Flange dimensions (mm)

S.A.E	AK	AJ	BD	BF	n	a
0	647.7	679.5	963	14	16	11.25°
00	787.4	850.9	963	14	16	11.25°

Transportation parameters

Type	Net weight (kg)	Gross weight (kg)	Packing dimensions (mm)
AMG 0400AA04 DAPM	2130	2368	1860x1180x1565
AMG 0400BS04 DAPM	2320	2558	1860x1180x1565
AMG 0400BB04 DAPM	2390	2628	1860x1180x1565
AMG 0400CS04 DAPM	2640	2891	2060x1180x1565
AMG 0400CC04 DAPM	2670	2921	2060x1180x1565
AMG 0400DD04 DAPM	2960	3211	2060x1180x1565

Performance data

AMG 0450

Power range

Insulation class H / temperature rise H
1540 – 2025 kVA @ 400 V / 50 Hz / 1500 rpm
1850 – 2430 kVA @ 480 V / 60 Hz / 1800 rpm

Insulation class H / temperature rise F
1330 – 1750 kVA @ 400 V / 50 Hz / 1500 rpm
1600 – 2100 kVA @ 480 V / 60 Hz / 1800 rpm

Rated supply voltages

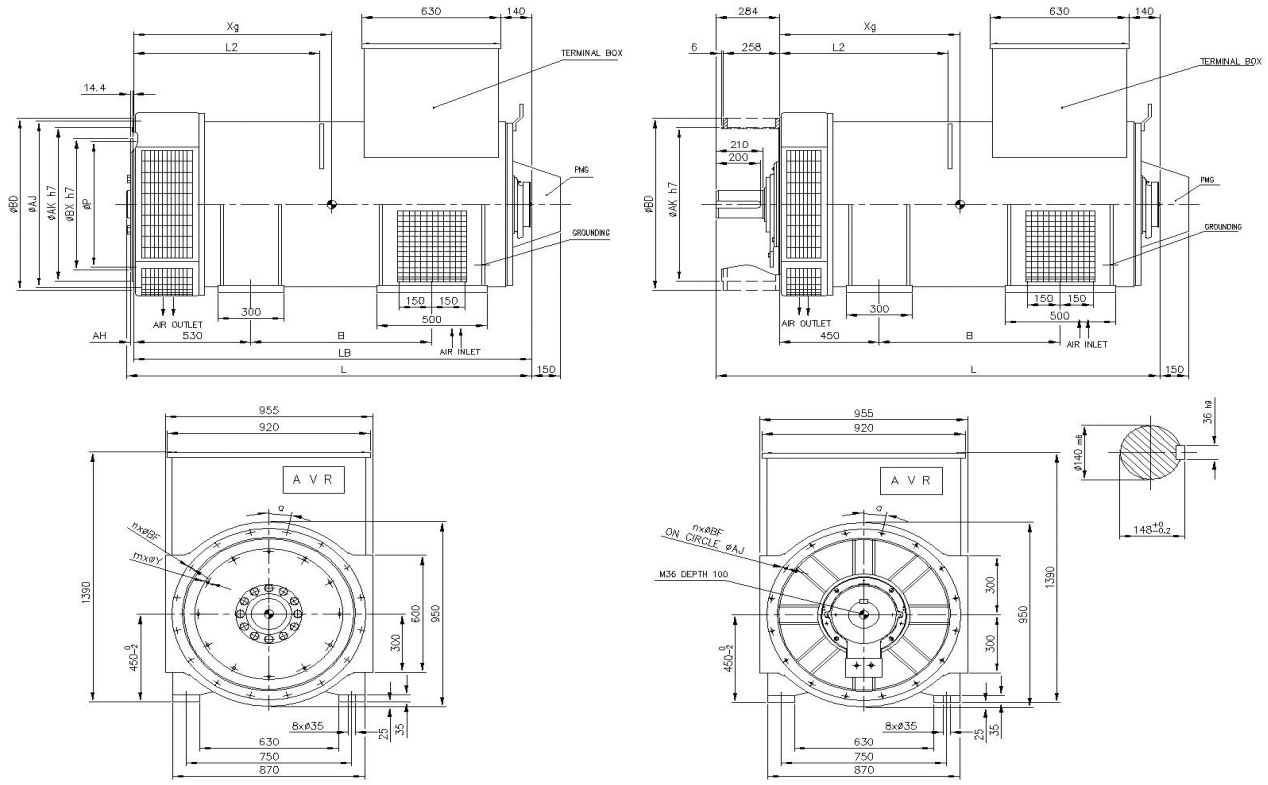
50 Hz: 380 – 440 V (Y), 220 – 254 V (Δ)
60 Hz: 380 – 480 V (Y), 220 – 277 V (Δ)

Performance data

Type	H-class (120 K), ambient 45°C, continuous, p.f. 0.8																	
	50Hz								Efficiency	60 Hz								Efficiency
	380 V	380 V	400 V	400 V	415 V	415 V	440 V	440 V	(400 V)	415 V	415 V	440 V	440 V	460 V	460 V	480 V	480 V	(480 V)
	kVA	kW	kVA	kW	kVA	kW	kVA	kW	%	kVA	kW	kVA	kW	kVA	kW	kVA	kW	%
AMG 0450AA04 DBPM	1460	1168	1540	1232	1540	1232	1355	1084	95.35	1595	1276	1695	1356	1775	1420	1850	1480	95.61
AMG 0450BB04 DBPM	1675	1340	1765	1412	1765	1412	1550	1240	95.55	1830	1464	1935	1548	2030	1624	2115	1692	95.81
AMG 0450CC04 DBPM	1860	1488	1960	1568	1960	1568	1775	1420	95.90	2035	1628	2155	1724	2255	1804	2350	1880	96.11
AMG 0450DD04 DBPM	1920	1536	2025	1620	2025	1620	1845	1476	96.00	2100	1680	2230	1784	2330	1864	2430	1944	96.20

Type	F-class (95 K), ambient 50°C, continuous, p.f. 0.8																	
	50Hz								Efficiency	60 Hz								Efficiency
	380 V	380 V	400 V	400 V	415 V	415 V	440 V	440 V	(400 V)	415 V	415 V	440 V	440 V	460 V	460 V	480 V	480 V	(480 V)
	kVA	kW	kVA	kW	kVA	kW	kVA	kW	%	kVA	kW	kVA	kW	kVA	kW	kVA	kW	%
AMG 0450AA04 DBPM	1260	1008	1330	1064	1330	1064	1170	936	95.54	1375	1100	1465	1172	1530	1224	1600	1280	95.71
AMG 0450BB04 DBPM	1445	1156	1525	1220	1525	1220	1340	1072	95.73	1580	1264	1670	1336	1750	1400	1825	1460	95.90
AMG 0450CC04 DBPM	1605	1284	1690	1352	1690	1352	1530	1224	96.04	1755	1404	1860	1488	1945	1556	2030	1624	96.16
AMG 0450DD04 DBPM	1660	1328	1750	1400	1750	1400	1590	1272	96.14	1810	1448	1925	1540	2010	1608	2100	1680	96.26

Drawings



Single bearing

Frame dimensions (mm)

Type	B	LB	L	L2	Xg
AMG 0450AA04 DBPM	720	1705	1740	793	805
AMG 0450BB04 DBPM	820	1805	1840	843	855
AMG 0450CC04 DBPM	975	1960	1995	918	935
AMG 0450DD04 DBPM	975	1960	1995	918	945

Flange dimensions (mm)

S.A.E	AK	AJ	BD	BF	n	a
0	647.7	679.5	711	14	16	11.25°
00	787.4	850.9	883	14	16	11.25°

Flex disc dimensions (mm)

S.A.E	BX	P	AH	Y	m
18	571.5	542.9	15.7	18	6
21	673.1	641.3	0	18	12

Transportation parameters

Type	Net weight (kg)	Gross weight (kg)	Packing dimensions (mm)
AMG 0450AA04 DBPM	3520	3740	2130x1050x1700
AMG 0450BB04 DBPM	3810	4040	2230x1050x1700
AMG 0450CC04 DBPM	4365	4610	2385x1050x1700
AMG 0450DD04 DBPM	4380	4625	2385x1050x1700

Double bearing

Frame dimensions (mm)

Type	B	L	L2	Xg
AMG 0450AA04 DAPM	720	1910	713	725
AMG 0450BB04 DAPM	820	2010	763	776
AMG 0450CC04 DAPM	975	2165	838	865
AMG 0450DD04 DAPM	975	2165	838	878

Flange dimensions (mm)

S.A.E	AK	AJ	BD	BF	n	a
0	647.7	679.5	711	14	16	11.25°
00	787.4	850.9	883	14	16	11.25°

Transportation parameters

Type	Net weight (kg)	Gross weight (kg)	Packing dimensions (mm)
AMG 0450AA04 DAPM	3550	3790	2300x1050x1700
AMG 0450BB04 DAPM	3840	4090	2400x1050x1700
AMG 0450CC04 DAPM	4395	4660	2555x1050x1700
AMG 0450DD04 DAPM	4410	4675	2555x1050x1700

Total offer of motors, generators and mechanical power transmission products with a complete portfolio of services

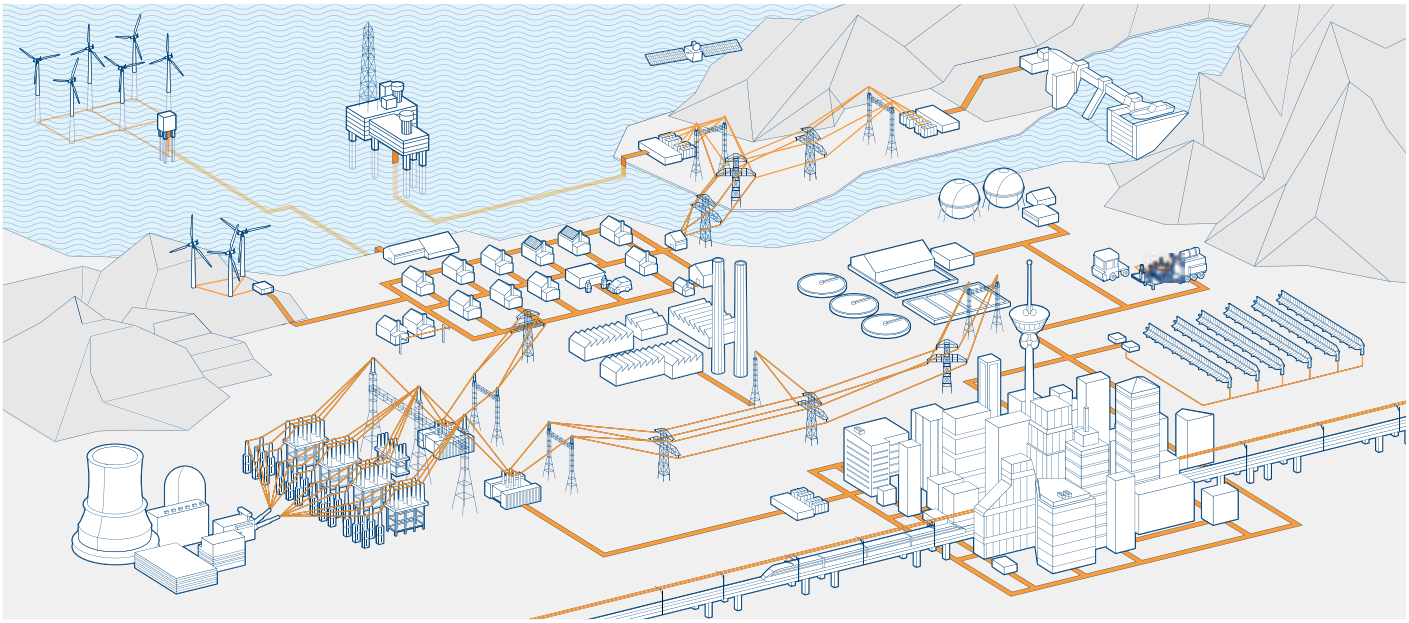


ABB is the leading manufacturer of low, medium and high voltage motors and generators, mechanical power transmission products with an offering of a complete portfolio of services. Our in-depth knowledge of virtually every type of industrial processing ensures we always specify the best solution for your needs.

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- Slip-ring modular motors
- Synchronous reluctance motors

Low and medium voltage

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Motors and generators for explosive atmospheres

- IEC and NEMA motors and generators, for all protection types

Synchronous motors

Synchronous generators

- Synchronous generators for diesel and gas engines
- Synchronous generators for steam and gas turbines

Wind power generators

Generators for small hydro

Other motors and generators

- Brake motors
- DC motors and generators
- Gear motors
- Marine motors and generators
- Single phase motors
- Motors for high ambient temperatures
- Permanent magnet motors and generators
- High speed motors
- Smoke extraction motors
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Life cycle services

- Installation and commissioning
- Service contracts
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Mechanical power transmission components, bearings, gears

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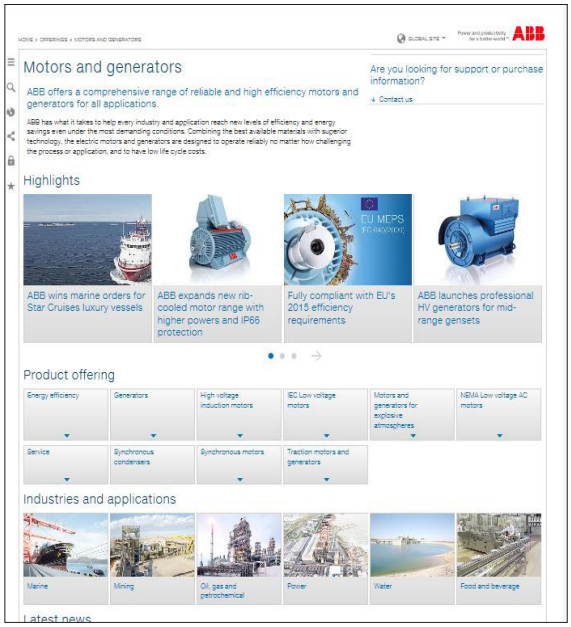

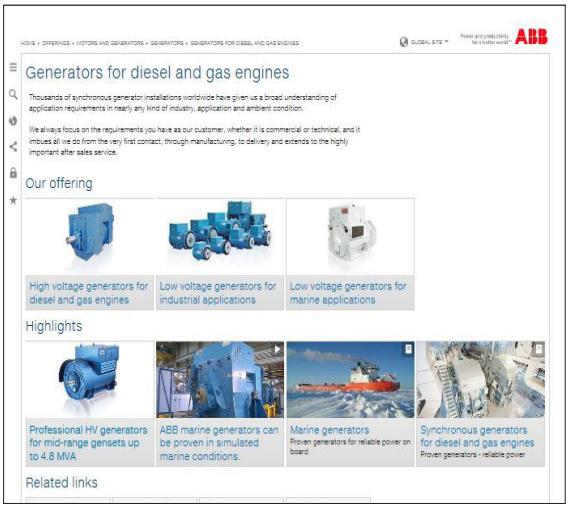

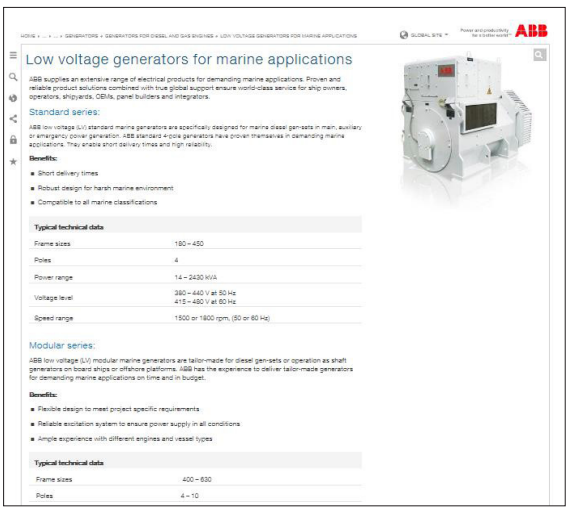

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CATALOG

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Low voltage industrial series generators

3 phases, 4 poles, 1500/1800 rpm
IEC frame size 450-500, 1565-3750 kVA

General information

Our new range of low voltage generators is developed to better fit market demands and is available in IEC frame sizes 450 & 500. The generators are ideal for supplying continuous, standby or emergency power for residential buildings, commercial premises, hospitals, schools, telecommunication facility, industrial sites and mines.

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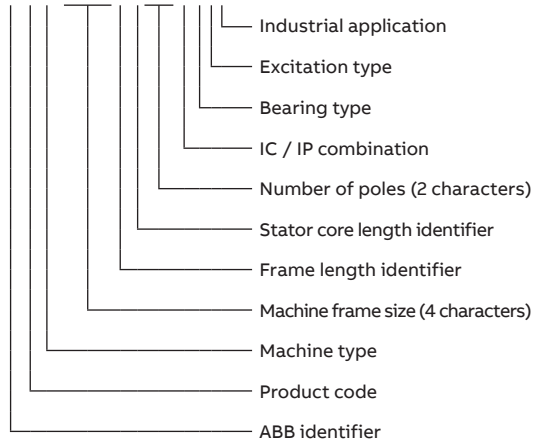
LIPPO
LIPPO

Electrical features

Type definition

NMG 0450CC04 DBPI



Bearing type: A – Double bearing, B – Single bearing
Excitation type: S – Shunt, A – Auxiliary winding, P – PMG

Voltage regulator
The automatic voltage regulator (AVR) is manufactured according to ABB specifications to ensure stable operation. The standard AVRs are of analogue type and mounted inside the main terminal box. A digital voltage regulator is available as an option.

Overload capability
Permissible overload is 110% for one hour every twelve hours.

Excitation systems
- Brushless excitation, built-in AVR and self-excited (PMI)
- Shunt, auxiliary winding and PMG excitation systems
- Sustained short circuit current: >3 × In for 10 s (PMG, auxiliary winding)

Model / Excitation type	Shunt	Auxiliary winding	PMG
NMG 0450	N/A	●	●
NMG 0500	N/A	●	●

● Standard configuration
● Optional configuration
N/A Not available

Frequency
The generators can be operated at either 50 or 60 Hz.

Voltage and connections
- 50 Hz: 380~440 V(Y), 220-254(Δ)
- 60 Hz: 380~480 V(Y), 220-277(Δ)

Voltage can be changed by reconnection and adjustment using the voltage regulator.

Insulation
- Insulation class H.

All windings are impregnated with high quality polyester-imide resin using vacuum pressure. They can withstand all expected mechanical and electrical shocks and vibrations as well as chemical corrosion.

Voltage waveform
For frame sizes 0450, 2/3 winding pitch is used to eliminate the 3rd harmonic on the voltage waveform.

Derating
The new rating is calculated by:
- Sn' = Sn × derating factor
- Sn': new rating
- Sn : rating for standard operation conditions

Temperature rise derating factors are as follows:
- Class F rating = Class H rating × 0.91
- Class B rating = Class H rating × 0.80

Derating factors

Altitude	Ambient temperature					
	25 °C	40 °C	45 °C	50 °C	55 °C	60 °C
0 to 1000 m	1.04	1.00	0.97	0.94	0.91	0.88
1000 to 1500 m	1.01	0.97	0.94	0.91	0.88	0.85
1500 to 2000 m	0.98	0.94	0.91	0.88	0.86	0.83
2000 to 2500 m	0.95	0.91	0.88	0.86	0.83	0.80
2500 to 3000 m	0.91	0.87	0.84	0.82	0.79	0.77
> 3000 m	on request	on request	on request	on request	on request	on request

Lagging power factor	1	0.9	0.8	0.7	0.6
Derating factor	1	1	1	0.92	0.85

Mechanical features

Poles and frame sizes
- 4 poles

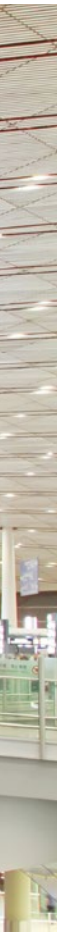
Available frame sizes are 450 and 500.

Bearings
The generator can be provided in single bearing or double bearing configurations.

Standard bearing configurations

Model	Non-Drive end	Drive end
NMG 0450	▲	▲
NMG 0500	▲	▲

▲ Sealed rolling bearing
▲ Re-greasable rolling bearing



Direction of rotation
All the generators operate in clockwise direction as viewed from the drive end. Anticlockwise operation is available on request.

Enclosure
The Standard enclosure is IP23, Other enclosures are available on request (ask factory for the detailed configurations).

Overspeed
The maximum overspeed is 2250 rpm (1.25 times the 60 Hz rated speed).

Mounting
For IM2105 a single bearing, SAE flange, coupling disc and feet down.

For IM1001 (IMB34) double bearings, SAE flange, one horizontal shaft extension and feet down.

For AMG 0500, IM1101 (IMB20) or IM2401(IMB25) double bearings, SAE flange, one horizontal shaft extension and raised feet.

Balancing
All rotors are dynamically balanced according to ISO 1940 G2.5. Two bearing rotors are balanced with a half key.

Terminal box
The generators have a large terminal box which allows easy access to connection bars or to the AVR. Current transformers and other optional modules can be installed inside the box.

Main optional features
- Anti-condensation heater
- PT100 for bearing
- PT100 for stator windings
- Current transformer for parallel operation
- Digital voltage regulator
- PMG
- EMC
- Potential transformer (Loose supply)
- Cable gland
- Adaptor flange

Other options are available on request.

Technical data

Continuous, H class (125 K)
Ambient 40 °C, 50 Hz, p.f 0.8

Type	380 V	400 V	1 phase 415 V kVA	380 V	400 V	1 phase 415 V kW	Efficiency (400 V) %
NMG 0450AA04 DBPI	1565	1650	1650	1252	1320	1320	95.22
NMG 0450BB04 DBPI	1780	1875	1875	1424	1500	1500	95.44
NMG 0450CC04 DBPI	1990	2100	2100	1592	1680	1680	95.76
NMG 0450DD04 DBPI	2135	2250	2250	1708	1800	1800	95.76
NMG 0500AA04 DAPI	2200	2315	2315	1760	1852	1852	95.84
NMG 0500BB04 DAPI	2420	2550	2500	1936	2040	2000	95.93
NMG 0500CC04 DAPI	2610	2750	2750	2088	2200	2200	96.24
NMG 0500DD04 DAPI	2970	3125	3125	2376	2500	2500	96.27

Continuous, H class (125 K)
Ambient 40 °C, 60 Hz, p.f 0.8

Type	380 V	400 V	415 V	440 V	460 V	1 phase 480 V kVA	380 V	400 V	415 V	440 V	460 V	1 phase 480 V kW	Efficiency (480 V) %
NMG 0450AA04 DBPI	1565	1650	1710	1815	1900	1980	1252	1320	1368	1452	1520	1584	95.54
NMG 0450BB04 DBPI	1780	1875	1945	2060	2155	2250	1424	1500	1556	1648	1724	1800	95.79
NMG 0450CC04 DBPI	1990	2100	2180	2310	2415	2520	1592	1680	1744	1848	1932	2016	96.02
NMG 0450DD04 DBPI	2135	2250	2335	2475	2590	2700	1708	1800	1868	1980	2072	2160	96.04
NMG 0500AA04 DAPI	2200	2315	2400	2545	2660	2775	1760	1852	1920	2036	2128	2220	96.11
NMG 0500BB04 DAPI	2420	2550	2645	2805	2930	3060	1936	2040	2116	2244	2344	2448	96.19
NMG 0500CC04 DAPI	2610	2750	2850	3025	3160	3300	2088	2200	2280	2420	2528	2640	96.39
NMG 0500DD04 DAPI	2970	3125	3240	3440	3590	3750	2376	2500	2592	2752	2872	3000	96.48

Technical data

Standby, H class (163 K)
Ambient 27 °C, 50 Hz, p.f 0.8

Type				1 phase				1 phase
	380 V	400 V		415 V	380 V	400 V		415 V
				kVA				kW
NMG 0450AA04 DBPI	1720	1815		1815	1376	1452		1452
NMG 0450BB04 DBPI	1960	2065		2065	1568	1652		1652
NMG 0450CC04 DBPI	2190	2310		2310	1752	1848		1848
NMG 0450DD04 DBPI	2350	2475		2475	1880	1980		1980
NMG 0500AA04 DAPI	2420	2545		2545	1936	2036		2036
NMG 0500BB04 DAPI	2660	2805		2750	2128	2244		2200
NMG 0500CC04 DAPI	2870	3025		3025	2296	2420		2420
NMG 0500DD04 DAPI	3265	3440		3440	2612	2752		2752

Standby, H class (163 K)
Ambient 27 °C, 60 Hz, p.f 0.8

Type						1 phase						1 phase
	380 V	400 V	415 V	440 V	460 V	480 V	380 V	400 V	415 V	440 V	460 V	480 V
						kVA						kW
NMG 0450AA04 DBPI	1720	1815	1880	1995	2090	2180	1376	1452	1504	1596	1672	1744
NMG 0450BB04 DBPI	1960	2065	2140	2265	2370	2475	1568	1652	1712	1812	1896	1980
NMG 0450CC04 DBPI	2190	2310	2400	2540	2655	2770	1752	1848	1920	2032	2124	2216
NMG 0450DD04 DBPI	2350	2475	2570	2725	2850	2970	1880	1980	2056	2180	2280	2376
NMG 0500AA04 DAPI	2420	2545	2640	2800	2925	3055	1936	2036	2112	2240	2340	2444
NMG 0500BB04 DAPI	2660	2805	2910	3085	3225	3365	2128	2244	2328	2468	2580	2692
NMG 0500CC04 DAPI	2870	3025	3135	3330	3475	3630	2296	2420	2508	2664	2780	2904
NMG 0500DD04 DAPI	3265	3440	3565	3785	3950	4125	2612	2752	2852	3028	3160	3300

Technical data

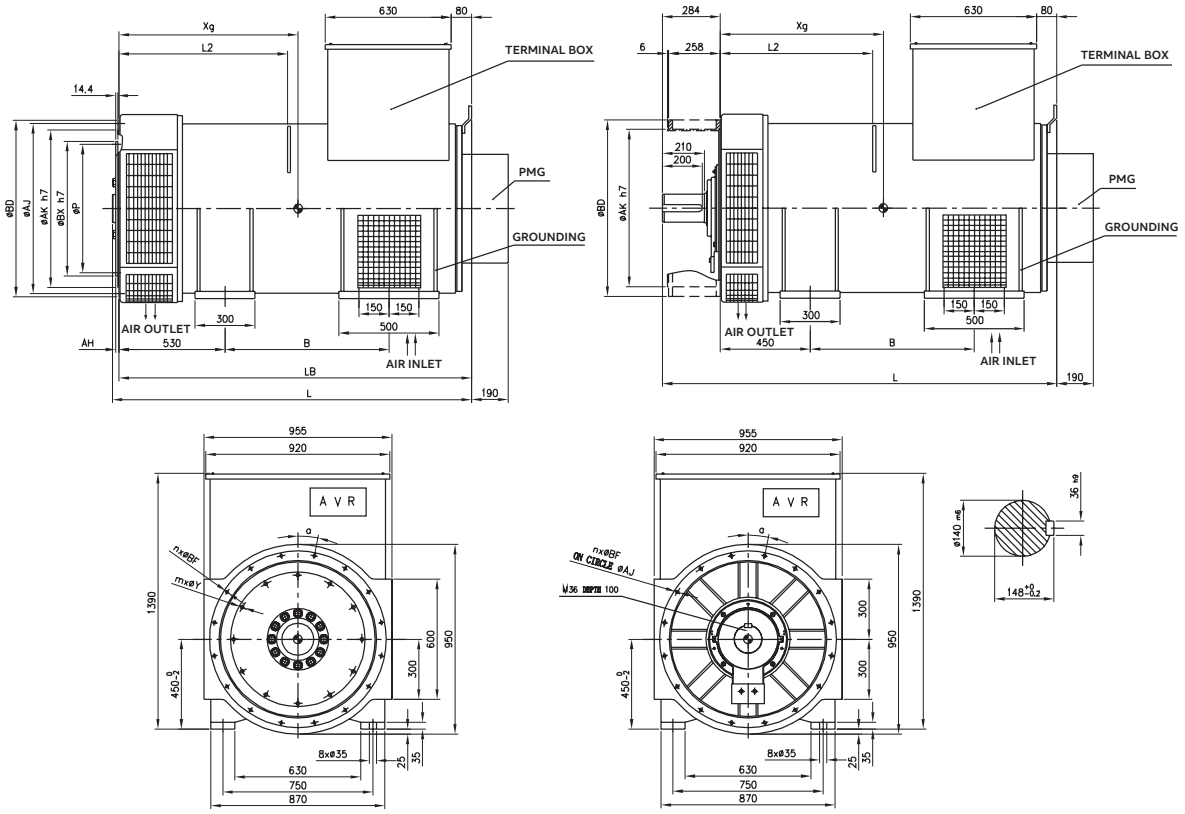
Standby, H class (150 K)
Ambient 40 °C, 50 Hz, p.f 0.8

Type			1 phase			1 phase
	380 V	400 V	415 V	380 V	400 V	415 V
			kVA			kW
NMG 0450AA04 DBPI	1630	1715	1715	1304	1372	1372
NMG 0450BB04 DBPI	1850	1950	1950	1480	1560	1560
NMG 0450CC04 DBPI	2070	2185	2185	1656	1748	1748
NMG 0450DD04 DBPI	2220	2340	2340	1776	1872	1872
NMG 0500AA04 DAPI	2310	2430	2430	1848	1944	1944
NMG 0500BB04 DAPI	2540	2680	2625	2032	2144	2100
NMG 0500CC04 DAPI	2740	2890	2890	2192	2312	2312
NMG 0500DD04 DAPI	3120	3280	3280	2496	2624	2624

Standby, H class (150 K)
Ambient 40 °C, 60 Hz, p.f 0.8

Type						1 phase						1 phase
	380 V	400 V	415 V	440 V	460 V	480 V	380 V	400 V	415 V	440 V	460 V	480 V
						kVA						kW
NMG 0450AA04 DBPI	1630	1715	1780	1890	1975	2060	1304	1372	1424	1512	1580	1648
NMG 0450BB04 DBPI	1850	1950	2025	2140	2240	2340	1480	1560	1620	1712	1792	1872
NMG 0450CC04 DBPI	2070	2185	2265	2400	2510	2620	1656	1748	1812	1920	2008	2096
NMG 0450DD04 DBPI	2220	2340	2430	2575	2695	2810	1776	1872	1944	2060	2156	2248
NMG 0500AA04 DAPI	2310	2430	2520	2670	2795	2915	1848	1944	2016	2136	2236	2332
NMG 0500BB04 DAPI	2540	2680	2775	2945	3075	3215	2032	2144	2220	2356	2460	2572
NMG 0500CC04 DAPI	2740	2890	2995	3175	3320	3465	2192	2312	2396	2540	2656	2772
NMG 0500DD04 DAPI	3120	3280	3400	3610	3770	3940	2496	2624	2720	2888	3016	3152

Outline drawing NMG 0450



Single bearing

Frame dimensions (mm)					
Type	**B**	**LB**	**L**	**L2**	**Xg**
NMG 0450AA04 DBPI	720	1645	1680	793	805
NMG 0450BB04 DBPI	820	1745	1780	843	855
NMG 0450CC04 DBPI	975	1900	1935	918	935
NMG 0450DD04 DBPI	975	1900	1935	918	945

Flange dimensions (mm)						
S.A.E	**AK**	**AJ**	**BD**	**BF**	**n**	**a**
0	647.7	679.5	711	14	16	11.25°
00	787.4	850.9	883	14	16	11.25°

Flex disc dimensions (mm)					
S.A.E	**BX**	**P**	**AH**	**Y**	**m**
18	571.5	542.9	15.7	18	6
21	673.1	641.3	0	18	12

Transportation parameters			
Type	**Net weight (kg)**	**Gross weight (kg)**	**Packing dimensions (mm)**
NMG 0450AA04 DBPI	3520	3740	2130x1050x1700
NMG 0450BB04 DBPI	3810	4040	2230x1050x1700
NMG 0450CC04 DBPI	4365	4610	2385x1050x1700
NMG 0450DD04 DBPI	4380	4625	2385x1050x1700

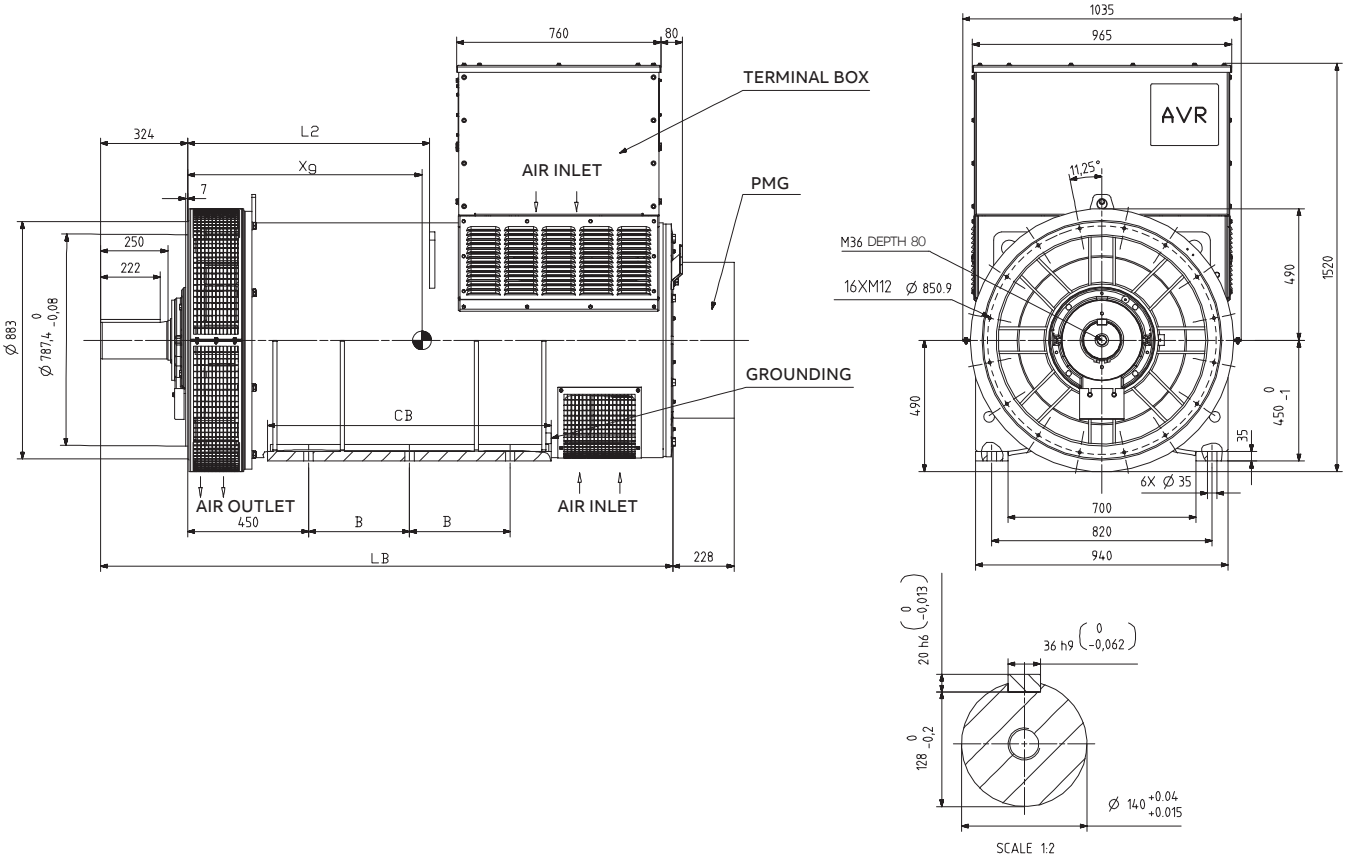
Double bearing

Frame dimensions (mm)				
Type	**B**	**L**	**L2**	**Xg**
NMG 0450AA04 DAPI	720	1850	713	725
NMG 0450BB04 DAPI	820	1950	763	776
NMG 0450CC04 DAPI	975	2105	838	865
NMG 0450DD04 DAPI	975	2105	838	878

Flange dimensions (mm)						
S.A.E	**AK**	**AJ**	**BD**	**BF**	**n**	**a**
0	647.7	679.5	711	14	16	11.25°
00	787.4	850.9	883	14	16	11.25°

Transportation parameters			
Type	**Net weight (kg)**	**Gross weight (kg)**	**Packing dimensions (mm)**
NMG 0450AA04 DAPI	3550	3790	2300x1050x1700
NMG 0450BB04 DAPI	3840	4090	2400x1050x1700
NMG 0450CC04 DAPI	4395	4660	2555x1050x1700
NMG 0450DD04 DAPI	4410	4675	2555x1050x1700

Outline drawing NMG 0500 A-B

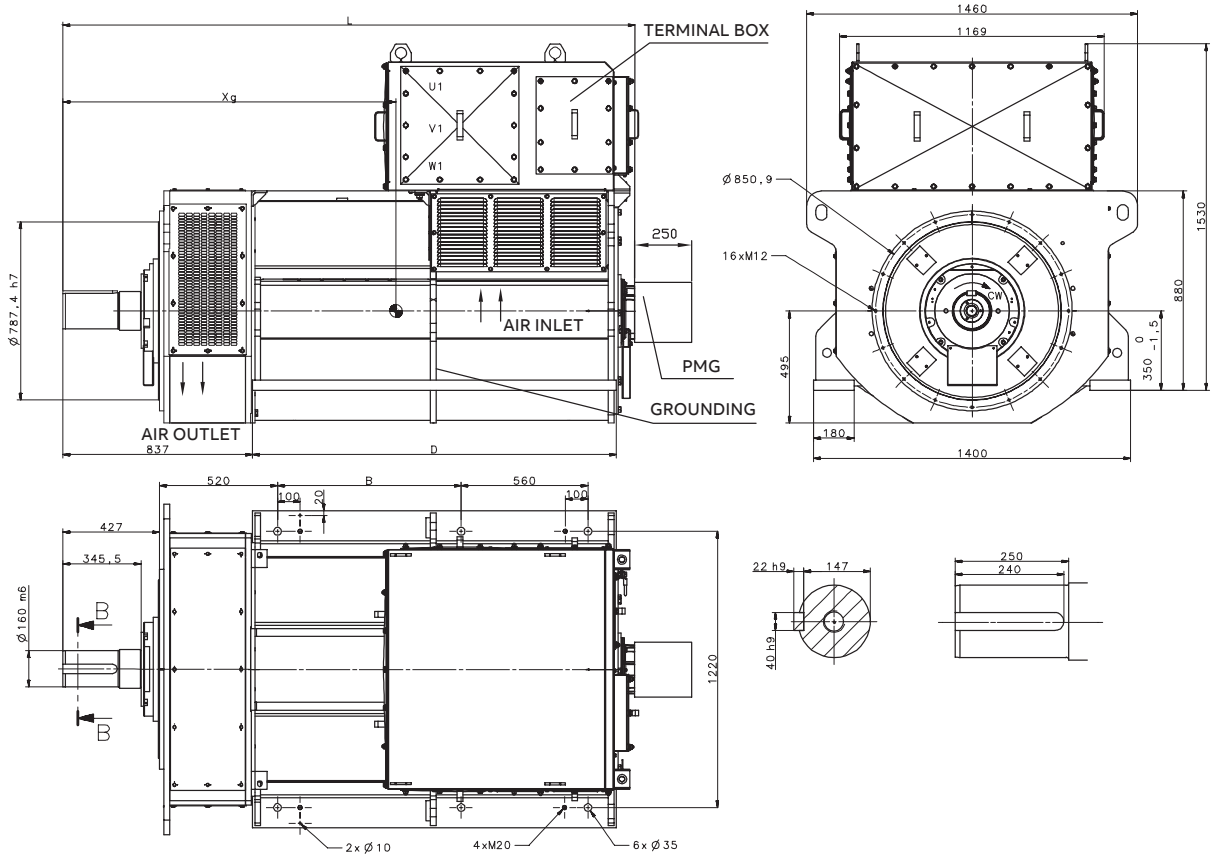


Double bearing

Frame dimensions (mm)					
Type	**B**	**CB**	**L2**	**LB**	**Xg**
NMG 0500AA04 DAPI	325	956	810	2030	800
NMG 0500BB04 DAPI	375	1056	900	2130	850

Transportation parameters			
Type	**Net weight (kg)**	**Gross weight (kg)**	**Packing dimensions (mm)**
NMG 0500AA04 DAPI	4800	5400	2500×1150×1920
NMG 0500BB04 DAPI	5100	5700	2600×1150×1920

Outline drawing NMG 0500 C-D



Double bearing

Frame dimensions (mm)					
Type	**L**	**B**	**D**	**Xg**	**XL**
NMG 0500CC04 DAPI	2535	810	1605	1361	212
NMG 0500DD04 DAPI	2585	860	1655	1401	245

Transportation parameters			
Type	**Net weight (kg)**	**Gross weight (kg)**	**Packing dimensions (mm)**
NMG 0500CC04 DAPI	6600	7260	3000x1560x2060
NMG 0500DD04 DAPI	7050	7730	3050x1560x2060

Total offer of motors, generators and mechanical power transmission products with a complete portfolio of services

ABB is the leading manufacturer of low, medium and high voltage motors and generators, mechanical power transmission products with an offering of a complete portfolio of services. Our in-depth knowledge of virtually every type of industrial processing ensures we always specify the best solution for your needs.

Low and high voltage
IEC induction motors
- Process performance motors
- General per formance motors
- High voltage cast iron motors
- Induction modular motors
- Slip-ring modular motors
- Synchronous reluctance motors

Low and medium voltage
NEMA motors
- Steel frame open drip proof (ODP) motors
- Weather protected, water cooled, fan ventilated motors
- Cast iron frame (TEFC) motors
- Air to air cooled (TEAAC) motors

Motors and generators for explosive atmospheres
- IEC and NEMA motors and generators, for all protection types

Synchronous motors

Synchronous generators
- Synchronous generators for diesel and gas engines
- Synchronous generators for steam and gas turbines

Wind power generators

Generators for small hydro

Other motors and generators
- Brake motors
- DC motors and generators
- Gear motors
- Marine motors and generators
- Single phase motors
- Motors for high ambient temperatures
- Permanent magnet motors and generators
- High speed motors
- Smoke extraction motors
- Wash down motors
- Water cooled motors
- Generator sets
- Roller table motors
- Servo motors
- Traction motors

Life cycle services
- Installation and commissioning
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- Preventive maintenance
- Spare parts
- Diagnosis
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- Site survey and overhaul
- Replacement motors and generators
- Technical support and consulting
- Trainings

Mechanical power transmission components, bearings, gears

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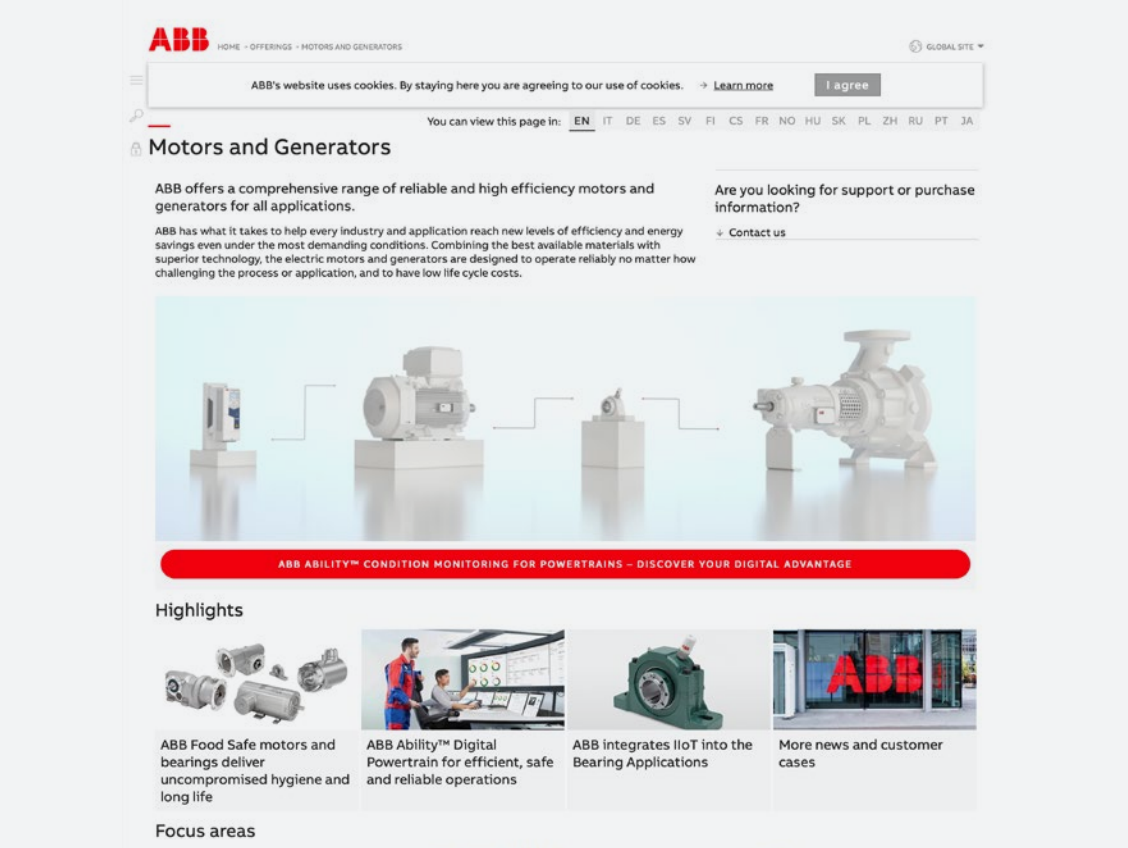
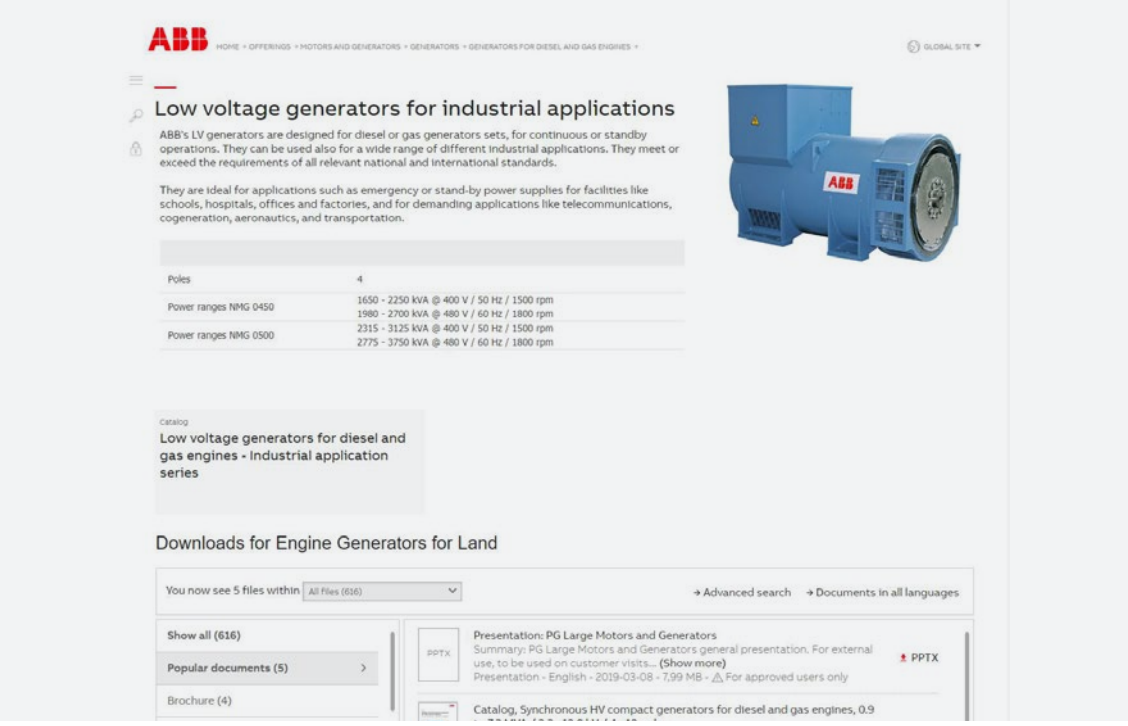


Product offering

- Generators
  - Generators for diesel and gas engines
    - Low voltage generators for industrial applications



Notes

Additional information
We reserve the right to make technical changes or modify the contents of this document without prior notice. With regard to purchase orders, the agreed particulars shall prevail. ABB does not accept any responsibility whatsoever for potential errors or possible lack of information in this document.

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