

**Electric Motor**

Document No	9039659
Version No	4
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1. Overview of Listed Motor Articles

Source

Manufacturer	Hoyer
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Electrical Features

IE class, Lowest Occurring Amongst Listed Motor Articles	IE3
Number of Poles	2
Power	1.1 kW

Starting Method

Designed for DOL (Direct Online) start	Yes
Designed for VFD	Yes
VFD Power	kW
CT (controlled torque motor for extreme Y/D starting)	No

Mechanical Features

Mechanical Standard	IEC
Frame Size	IEC80
Weight	10.5 kg
Mounting Arrangement	IM3001/-11

Ex Design Code

According to IECEx (ATEX)	
According to the Division System (NEC 500 – 503/CEC 18)	, , ,
According to the Zone System (NEC 505 – 506/CEC 18)	, ,

* = feature differs between listed motor articles

All data subject to tolerances in accordance with IEC

Dept:	Issued by:	Approved by:	Approve date:
HSS	MARIA ENGSTRÖM	MAGNUS STENGÅRD	2021-04-19

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2. Add-Ons

Add-On	Occurrence
004 - Alfa Laval article number printed on rating plate	Default for all listed articles
053 - Metal fan cover	Default for all listed articles
067 - External earthing bolt	Default for all listed articles
405 - Special winding insulation for frequency converter supply	Default for all listed articles
451 - Heating element, 200-240V	Default for all listed articles
491 - Fulfilling Nippon Kaiji Kyokai (NK) requirements, without certificate	Optional for all listed articles
492 - Fulfilling Registro Italiano Navale (RINA) requirements, without certificate	Optional for all listed articles
493 - Fulfilling China Classification Societies (CCS) requirements (Beijing), without certificate	Optional for all listed articles
494 - Fulfilling Korea Register of Shipping (KR) requirements, without certificate	Optional for all listed articles
496 - Fulfilling Bureau Veritas (BV) requirements, without certificate(non-essential duty only)	Optional for all listed articles
497 - Fulfilling Russian Maritime Register of Shipping (RS) requirements, without certificate	Optional for all listed articles
675 - Fulfilling American Bureau of Shipping (ABS) requirements, without certificate (non-essential duty only)	Optional for all listed articles
676 - Fulfilling Germanischer Lloyd (GL) requirements, without certificate (non-essential duty only)	Optional for all listed articles

All data subject to tolerances in accordance with IEC.

3. Data for Individual Motor Articles

Article Number		9039659 51							9039659 52							9039659 59						
Rating(s) on the Rating Plate		Voltage [V]	Connection	Frequency [Hz]	Power [kW]	Current [A]	Starting Current (I _{st} /I)	Power Factor	Voltage [V]	Connection	Frequency [Hz]	Power [kW]	Current [A]	Starting Current (I _{st} /I)	Power Factor	Voltage [V]	Connection	Frequency [Hz]	Power [kW]	Current [A]	Starting Current (I _{st} /I)	Power Factor
		220-240	D	50	1.1	4,32-3.96		0.8	380-415	D	50	1.1	2,50-2.29		0.8	220	D	60	1.1	4.38		0.8
		380-415	Y	50	1.1	2,50-2.29		0.8	660-690	Y	50	1.1	1,44-1.38		0.8	380	Y	60	1.1	2.54		0.8
		254-277	D	60	1.1	3,80-3.48		0.8	440-480	D	60	1.1	2,19-2.01		0.8							
		440-480	Y	60	1.1	2,19-2.01		0.8	690	Y	60	1.1	1.4		0.8							
									760-830	Y	60	1.1	1,27-1.16		0.8							
IE Class		At 50 Hz: IE3.At 60 Hz: IE3.							At 50 Hz: IE3.At 60 Hz: IE3.							At 50 Hz: .At 60 Hz: IE3.						
Approved for Use in the Countries Indicated in Table		AR							AR							AR						
		CN							CN							CN						
		EU							EU							EU						
		ID							ID							ID						
		KE							KE							KE						
		KR							KR							KR						
		Commercial Data		Manufacturer							Hoyer							Hoyer				
Manufacturer Reference 1							HMA3 80 2-2							HMA3 80 2-2								
Manufacturer Reference 2							AL340900209							AL340900259								
Manufacturer Reference 3																						
Add-Ons (see section 2)		Manufacturer Add-Ons																				
		Default Add-Ons							004,053,067,405,451							004,053,067,405,451						
		Optional Add-Ons							491,492,493,494,496,497,675,676							491,492,493,494,496,497,675,676						
Applicable Starting Method(s)		Designed for DOL							Yes							Yes						
		Designed for VFD							Yes							Yes						
		VFD Power							kW							kW						
		CT (Y/D)							No							No						
Ex Design Codes		IECEX (ATEX)																				
		NEC 500 – 503/CEC 18							, , ,							, , ,						
		NEC 505 – 506/CEC 18							, ,							, ,						
Standard		Mechanical: IEC. Electrical: IEC.							Mechanical: IEC. Electrical: IEC.							Mechanical: IEC. Electrical: IEC.						
Number of Poles		2							2							2						
Insulation Class		F							F							F						
Ambient Temperature		55 °C							55 °C							55 °C						
Weight		10.5 kg							10.5 kg							10.5 kg						
Dimensions (see section 6)		Dimension Set 1							Dimension Set 1							Dimension Set 1						
Cable Entries (see section 5)		From Right							From Right							From Right						
Frame Size		IEC80							IEC80							IEC80						
Frame Material		Aluminium							Aluminium							Aluminium						
Mounting Arrangement		IM3001/-11							IM3001/-11							IM3001/-11						
IP Class		IP55							IP55							IP55						
Bearings		D-end: 6204-2Z/C3. ND-end: 6204-2Z/C3.							D-end: 6204-2Z/C3. ND-end: 6204-2Z/C3.							D-end: 6204-2Z/C3. ND-end: 6204-2Z/C3.						
Sound Level		57 dB(A)							57 dB(A)							57 dB(A)						
Notes																						

Article Number	
Rating(s) on the Rating Plate	
IE Class	
Approved for Use in the Countries Indicated in Table	AR – Argentina
	AU – Australia & New Zealand
	BO – Bolivia
	BR – Brazil
	CA – Canada
	CN – China
	EC – Ecuador
	EEU – Eurasian Economic Union
	EU – EU, EEA & Turkey
	HK – Hong Kong
	ID – Indonesia
	IN – India
	JP – Japan
	KE – Kenya
	KR – Korea
	MX – Mexico
	PE – Peru
	SA – Saudi Arabia
	SG – Singapore
	TW – Taiwan
US – U.S.A.	
VN – Vietnam	
X – Any Other Country	
Commercial Data	Manufacturer
	Manufacturer Reference 1
	Manufacturer Reference 2
	Manufacturer Reference 3
Add-Ons (see section 2)	Manufacturer Add-Ons
	Default Add-Ons
	Optional Add-Ons
Applicable Starting Method(s)	Designed for DOL
	Designed for VFD
	VFD Power
	CT (Y/D)
Ex Design Codes	IECEx (ATEX)
	NEC 500 – 503/CEC 18
	NEC 505 – 506/CEC 18
Standard	
Number of Poles	
Insulation Class	
Ambient Temperature	
Weight	
Dimensions (see section 6)	
Cable Entries (see section 5)	
Frame Size	
Frame Material	
Mounting Arrangement	
IP Class	
Bearings	
Sound Level	
Notes	

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Voltage [V]	Connection	Frequency [Hz]	Power [kW]	Current [A]	Starting Current (I _{st} /I)	Power Factor
380	D	60	1.1	2.54		0.8
660	Y	60	1.1	1.46		0.8
At 50 Hz: .At 60 Hz: IE3.						
AR						
CN						
EU						
ID						
KE						
KR						
X						
Hoyer						
HMA3 80 2-2						
AL340900260						
004,053,067,405,451						
491,492,493,494,496,497,675,676						
Yes						
Yes						
kW						
No						
, , ,						
, ,						
Mechanical: IEC. Electrical: IEC.						
2						
F						
55 °C						
10.5 kg						
Dimension Set 1						
From Right						
IEC80						
Aluminium						
IM3001/-11						
IP55						
D-end: 6204-2Z/C3. ND-end: 6204-2Z/C3.						
57 dB(A)						

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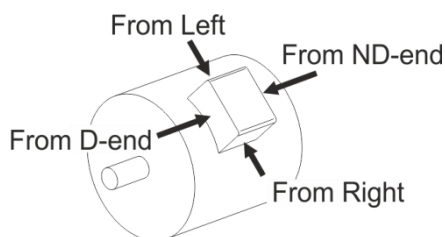
4. Purchasing Instructions

When ordering an electrical motor, the following data must be provided to the supplier:

- This document *or* at least the document number and version number of this document.
- Alfa Laval article number, as listed in section 3.
- Manufacturer Reference 1, 2 and 3, as listed in section 3.
- Required additional options, if any, as listed in section 2.
- When known at the time of the order; end user country (alternatively "Marine Vessel").

5. Additional Information

Definition of Cable Entries

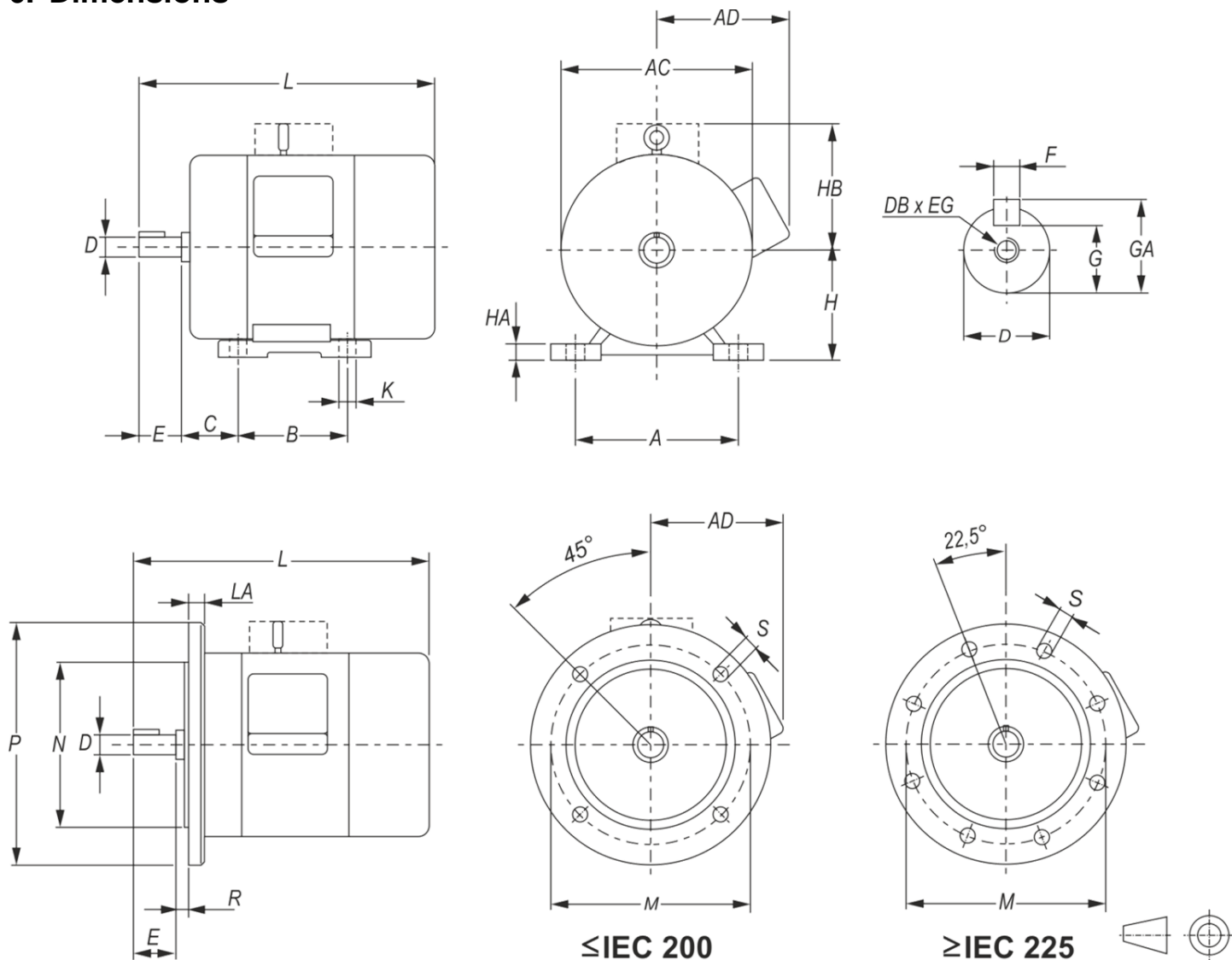


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6. Dimensions



Dimension Set 1

Please note that there may be more than one set of dimensions! Please refer to the motor article table in section 3. All figures in mm.

General		Shaft		Feet		Flange	
		With key					
		D	Ø19 j6			LA	10
		DB	M6	A		M	Ø165
		E	40	B		N	Ø130
AC	159	EG	16	C		P	Ø200
AD		F	6 h9	H		R	0
L	298	G	15.5	HA		S	12
HB	126	GA	21.5	K			

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