

## Data sheet for three-phase Squirrel-Cage-Motors

MLFB-Ordering data : **1LA7163-4AA60-Z**  
A11+M34

Client order no. :  
Order no. :  
Offer no. :  
Remarks :

Item no. :  
Consignment no. :  
Project :

### Electrical data:

Rated voltage :	(6) 400 VD/690 VY, 50 Hz, 460 VD, 60 Hz					
Frequency :	50 Hz		60 Hz			
Rated power :	11.00 kW		12.60 kW			
Rated speed :	1460 1/ min		1760 1/ min			
Rated torque :	72.0 Nm		68.4 Nm			
Rated current (IE) :	VD	VY	VD			
	21.50 A	12.46 A	21.50 A			
Starting / rated current :	6.2		6.6			
Breakdown / rated torque :	2.7		2.7			
Starting / rated torque :	2.2		2.2			
	4/4	3/4	2/4	4/4	3/4	2/4
Efficiency %	87.6%	87.6%	86.6%	88.5%	88.5%	87.5%
Power factor :	0.84	0.80	0.71	0.84	0.80	0.71
Efficiency class :	IE1		IE1			

### Mechanical data:

Sound pressure level 50Hz/60Hz (load) :	66 dB(A)	70 dB(A)
Moment of inertia :	0.043 kg*m <sup>2</sup>	
Bearing DE :	6209 2ZC3	
Bearing NDE :	6209 2ZC3	
Type of bearing :	Locating bearing NDE (standard)	
Condensate drainage holes :	No	
Regreasing device :	No	
Lubricants :	Esso Unirex N3	
Grease lifetime/Relubrication interval :	40000 h	
Quantity of grease for relubrication :	null g	
External earthing terminal :	Yes (standard)	
Coating :	Special paint finish RAL 7030 stone gray	

### Environmental conditions:

Ambient temperature :	-20 °C - +40 °C
Altitude above sea level :	1000 m
Standards and specifications :	IEC, DIN, ISO, VDE, EN

### General data:

Frame size	160 M
Design of electrical machine :	(0) IM B3 / B6 / B7 / B8 / V5 without canopy
Weight in kg, without optional accessories :	73.00 kg
Frame material :	Aluminum
Degree of protection :	IP 65
Method of cooling, TEFC :	IC 411
Vibration class :	A (Standard)
Insulation :	155(F) to 130(B)
Duty type :	S1 - continuous duty
Direction of rotation :	Bi-directional

### Terminal box:

Material of terminal box :	
Type of terminal box :	gk 330 Ex
Contact screw thread :	
Max. cross-sectional area :	
Cable diameter from ... to ... :	
Cable entry :	
Cable gland :	

### Special design:

A11	PTC thermistor motor protection using 3 integrated temperature sensors for shutdown
M34	Ex nA - Version for Zones 21 and 22 for conductive dust (IP65), for line operation