

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



MLFB-Ordering data : 1LA7107-4AA16

without (standard)

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

Item no. :  
Consignment no. :  
Project :

### Electrical data:

Rated voltage :	(1) 230 VD/400 VY, 50 Hz, 460 VY, 60 Hz					
Frequency :	50 Hz		60 Hz			
Rated power :	3.00 kW		3.45 kW			
Rated speed :	1420 1/ min		1720 1/ min			
Rated torque :	20.2 Nm		19.2 Nm			
Rated current (IE) :	VD	VY	VY			
	11.30 A	6.50 A	6.10 A			
Starting / rated current :	5.6		5.9			
Breakdown / rated torque :	3.0		3.0			
Starting / rated torque :	2.7		2.7			
	4/4	3/4	2/4	4/4	3/4	2/4
Efficiency %	81.5%	81.5%	80.5%	85.0%	85.0%	84.0%
Power factor :	0.82	0.77	0.67	0.83	0.79	0.69
Efficiency class :	IE1			IE1		

### Mechanical data:

Sound pressure level 50Hz/60Hz (load) :	53 dB(A)	57 dB(A)
Moment of inertia :	0.0055 kg*m <sup>2</sup>	
Bearing DE :	6206 2ZC3	
Bearing NDE :	6205 2ZC3	
Type of bearing :	Floating bearings pre-loaded DE (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 :	No	
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	100 L
Design of rotating electrical machines :	(6) IM B35
Weight in kg, without optional accessories :	24.00 kg
Frame material :	Aluminum
Degree of protection :	IP 55
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 :	Aluminum
Type of terminal box :	gk 130
Contact screw thread :	M4
Max. cross-sectional area :	4.00 mm <sup>2</sup>
Cable diameter from ... to ... :	11.00 mm - 21.00 mm
Cable entry :	2xM32x1,5
Cable gland :	2 plugs

### Special design: