Customer information packet

EMM20372-S-AP

M3AA 200MLB 2 B3 37KW

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IEC LV MOTORS

Motor data sheet

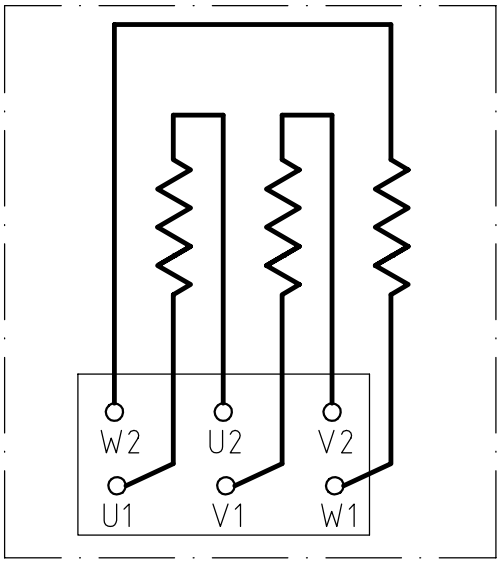
M3AA 200MLB 2

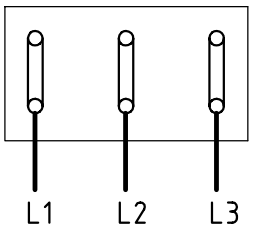
For ordering purposes within selected meps, please add Variant Code 509 Fulfilling US Integral Horsepower Motor Rule (IHP)

Definition	Data	Unit	Remarks
Product code	3GAA201420-**K		CalcId: 3GZF021020-712
Voltage code	S	US CA501 Catalog Number EMM20372-S-AP (B3)	
Type/Frame	M3AA 200MLB 2		
Design	BASIC		
Efficiency class	IE3		IEEE 112 B: 2004
Rated output P_N	37	kW	MEPS Level: NEMA Nom.
Rated voltage U_N	460	V	± 5 % (IEC 60034-1)
Rated frequency f_N	60	Hz	± 2 % (IEC 60034-1)
Rated speed n_N	3564	r/min	Suitable for use at 230VD/60Hz
Rated current I_N	55.8	A	
Starting current I_S/I_N	9.2		
Nominal torque T_N	99.1	Nm	
Locked rotor torque T_l/T_N	3.1		
Maximum torque T_b/T_N	3.7		
NEMA Nominal Efficiency	93	%	
Efficiency - full load 100%	93.0	%	IEEE 112 B: 2004
Efficiency - 75%	92.8	%	
Efficiency - 50%	91.2	%	
Power factor - full load 100%	0.88		
Bearing DE/NDE	6312-2Z/C3 6210-2Z/C3		
Sound pressure level L_{PA} dB	76	dB(A)	+3dB(A)
Moment of inertia J = ¼ GD^2 kgm^2	0.2	kg-m²	
Weight	241	kg	
Ambient temperature	40	°C	
Motor losses at VSD operating points	**losses in efficiency %**	**losses in Watt**	**losses in relative to nom. power %**
VSD Speed 90% Torque 100%	92.8	2584	7.0
VSD Speed 50% Torque 100%	91.8	1652	4.5
VSD Speed 25% Torque 100%	87.3	1346	3.6
VSD Speed 90% Torque 50%	90.4	1768	4.8
VSD Speed 50% Torque 50%	91.2	892	2.4
VSD Speed 50% Torque 25%	87.3	673	1.8
VSD Speed 25% Torque 25%	85.2	402	1.1

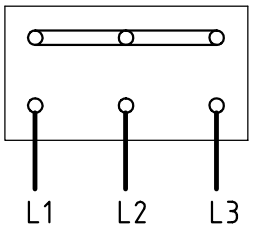
One speed three-phase motor.

Motor trifásico de una velocidad.





△ connection.
conexión △.



⅄ connection.
conexión ⅄.

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ABB Automation Products, S.A. Div. Motores (ES) 2001

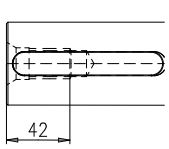
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RevInd	Revision	Appd	Year Week

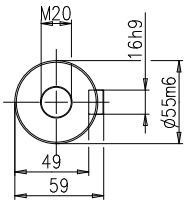
Accepted by qual control: ARTIGAS	Accepted for prod by: SANZ	Description(English): CONNECTION DIAGRAM	
Design checked by: SOLER	Drawn by: CANO	Description(own language): ESQUEMA CONEXIONES	
Drawing checked by: BLANES	Issued by: MKI — Year 81 Week 52	AC 4340 4513-1	RevInd: 1 — Sheet: 1

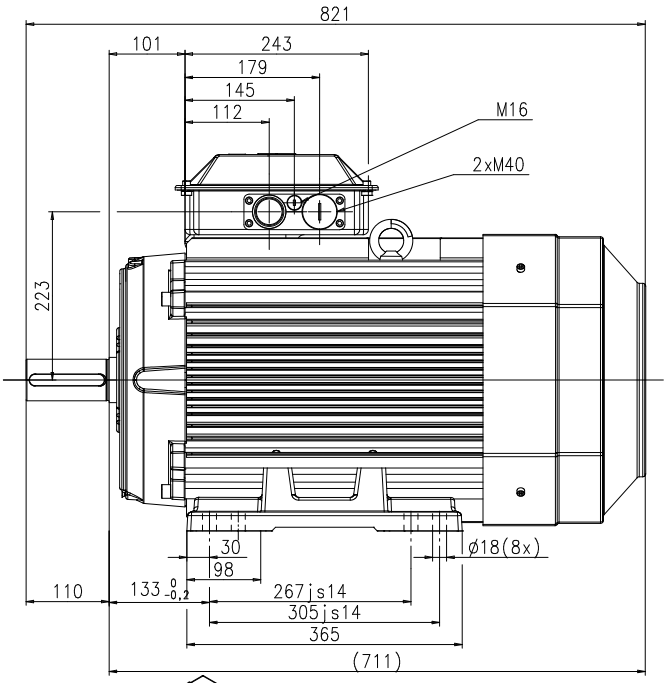
ABB Automation Products, S.A.
División Motores

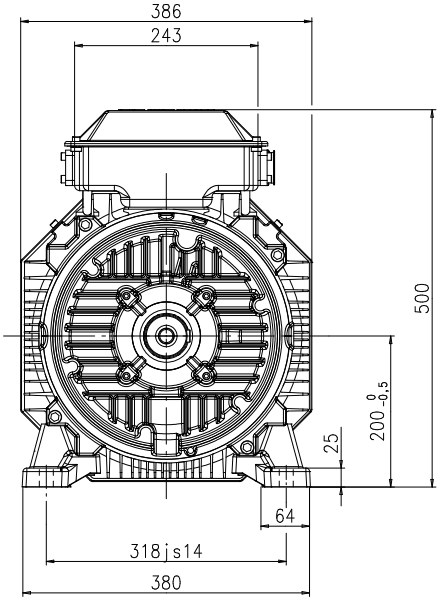
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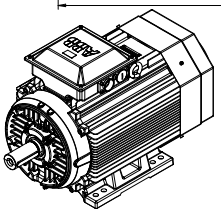
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Motor Dimension Print	Motor Type: M3AA 200 IM 1001	Document No: 3GZV 102 028-A A1.5109
Description: **Three phase motor,**		
Unit: ABB AB, LV Motors, Sweden.	Issued by: B Abujheisha	Replaces:
Date: **2012-09-29**	Approved by: N Jonsson	Replaced by:
	Customer Reference:	

CERTIFICATE OF COMPLIANCE

Certificate Number	20150727-E473868
Report Reference	E473868-20150722
Issue Date	2015-JULY-27
Issued to:	ABB Oy, Motors and Generators Strömbergin Puistotie 5A FIN-65320 Vaasa FINLAND
This is to certify that representative samples of	MOTORS & MOTORS, INVERTER DUTY See addendum page for models
	Have been investigated by UL in accordance with the Standard(s) indicated on this Certificate.
Standard(s) for Safety:	UL 1004-1 Rotating Electrical Machines – General Requirements UL 1004-8 Inverter Duty Motors CSA C22.2 No. 100-14 Motors and Generators
Additional Information:	See the UL Online Certifications Directory at www.ul.com/database for additional information

Only those products bearing the UL Certification Mark should be considered as being covered by UL's Certification and Follow-Up Service.

Look for the UL Certification Mark on the product.

Bruce Mahrenholz, Director North American Certification Program

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CERTIFICATE OF COMPLIANCE

Certificate Number	20150727-E473868
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Issue Date	2015-JULY-27

This is to certify that representative samples of the product as specified on this certificate were tested according to the current UL requirements.

Models

USL, CNL - Motor series M3BP, M3BPW, M3BPV, M3BC, M3BL, M3BJ, M3LJ, M3LP, and M3RP followed by 71, 80, 90, 100, 112, 132, 160, 180, 200, 225, 250, 280, 315, 355, 400, or 450 followed by letters e.g. S, SM, M or ML etc., may be followed by A to Z, followed by 2 to 16 or A to Z, followed by additional numbers or letters. See NOMENCLATURE EXPLANATION page 2 for details.

USL, CNL - Motor series M3BN followed by 40x, 44x, 58x, 68x, or 72x (where x is 0 to 9), followed by letters e.g. K, KH etc., may be followed by A to Z, followed by 2 to 16 or A to Z, followed by additional numbers or letters. See NOMENCLATURE EXPLANATION page 2 for details.

USL, CNL – Inverter Duty Motor series M3BC, M3BP, M3BPW, M3BL, M3BJ, M3LJ, M3LP and M3RP followed by 71, 80, 90, 100, 112, 132, 160, 180, 200, 225, 250, 280, 315, 355, 400, or 450 followed by letters e.g. S, SM, M or ML etc., may be followed by A to Z, followed by 2 to 16 or A to Z, followed by additional numbers or letters. See NOMENCLATURE EXPLANATION page 2 for details.

USL, CNL - Inverter Duty Motor series M3BN followed by 40x, 44x, 58x, 68x, or 72x (where x is 0 to 9), followed by letters e.g. S, SM, M or ML etc., may be followed by A to Z, followed by 2 to 16 or A to Z, followed by additional numbers or letters. See NOMENCLATURE EXPLANATION page 2 for details.

Motors covered by this Report may additionally be designated for “Smoke Extraction Duty” per EN 12101-3.

Bruce Mahrenholz, Director North American Certification Program

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