Type: **PMB130-CM-8BS176**

Id No: **144908**

Mechanical Design

Mech. Id No: **59607443** | BOM: **-** | Drawing No: **Z 59607434**

Painting:

Specifications: **Machine Id.No. 59607433. Manufactured by foreign supplier.**

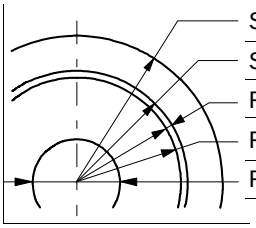
Electrical Rated Data *)

Kind of Motor: **Frequency-controlled permanent magnet synchronous motor**

Rated Output:	**19.2** kW	Speed:	**1098** 1/min	Ventilation:	**external**
Rated Torque:	**167** Nm	Power Factor:	**0.89**	V:	**2 x NMB-B50**
Voltage:	**340** V	Efficiency:	**-** %	FZH: **180** c/h ED:	**50** %
Current:	**46** A	TMA:	**245** Nm	Design Code:	**A4**
Frequency:	**73.3** Hz	IMA:	**67** A	Protection Code:	**IP21**
Sense of Rotation:	**cw / ccw**	Brake Voltage	**-** VDC	Duty Code:	**S5**
Connection:	**Star**	Brake Current:	**-** ADC	Diagram No:	**-**

Design Information

Core Length:	**160** mm	Weight:	**150** kg		
Stator Slot:	**-**	Rotor Slot:	**-**		
Stator Slot Dim / Area:		**-** mm/mm²			
Rotor Slot Dim:	**-** mm	Rotor Slope:	**-**		
Rotor Slot Bottom Dia:	**-** mm	IMH:	**-** kgm²		
Bar Dim:	**-** mm	Magnetic Grade:	**-** W/kg	Endring Dim:	**-** mm
Bar Number:	**-**	Cast.Mld:	**-**	Alloy: **-**	Endring Material: **-**
Bar Material:	**-**				



Stator Outer Dia:	**-** mm
Stator Inner Dia:	**-** mm
Radial Gap:	**-** mm
Rotor Outer Dia:	**-** mm
Rotor Inner Dia:	**-** mm

Additional Info: **Weight: Complete machine without secondary sheave**
IMH: Rotor + shaft + traction sheave

Winding Data

	Stator Winding
Number of Poles:	**8**
Number of Slots:	**48**
Number of Coils:	**48**
Number of Turns per Coil:	**11**
Wire Diameter [mm]:	**-**
Number of Parallel Wires:	**-**
Wire Class:	**CuC2.5**
Winding Diagram:	**-**
Winding Connection:	**parallel**
Slot Fill Factor:	**-**
Resistance per Phase [Ω]	**0.23**
Weight of Winding [kg]:	**-**
Winding Leads [mm²]:	**-**

Insulation Class: **F**

Winding Protection: **Two temperature sensors KTY84-130**

Winding Instructions: **Insulation interlayer in the winding head between every coil.**

Parameter Data

PMN:	**19.2**	kW
FS_NOM:	**73.3**	Hz
POLE_PAIRS:	**4**	
NOM_TORQUE:	**167**	Nm
US_NOM:	**340**	V
IS_NOM:	**46**	A
FLUX:	**0.33**	Vs
IMot Peak:	**104**	A
XS:	**-**	Ω
Xq:	**3.15**	Ω
Xd:	**2.84**	Ω
RS:	**0.23**	Ω

***) Nameplate Data according to the manufacturer's documentation.**

1) Wire Class according to IEC 317-13

2) Limit Temperature of Hoisting Motor - Q 41601305

3) Parameter List - Q 41601303

Modificat.	Ae0	Ae1	Ae2	Ae3	Ae4	Ae5
KA No	76529	142012				
KA Date	12-05-01	13-12-20				

Replaces/Mod.

Basis drawing

Prepared	13-12-20	jurkowbo
Reviewed	13-12-20	almadaen
Norms chkd	13-12-20	jurkowbo
Released	13-12-20	wespian

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MOTOR SPECIFICATION

Classification	Remark	No. pages	Format
11120		4	A4
Lead Office	**Q 242643**	Page	Language
EB6		1	E

05.12.2013

Type: **PMB130-CM-8BL176**

Id No: **144908**

Mechanical Design

Mech. Id No: **59607443** | BOM: **-** | Drawing No: **Z 59607434**

Painting:

Specifications: **Machine Id.No. 59607433. Manufactured by foreign supplier.**

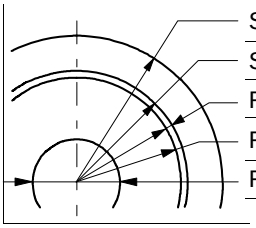
Electrical Rated Data *)

Kind of Motor: **Frequency-controlled permanent magnet synchronous motor**

Rated Output:	**19.2** kW	Speed:	**1098** 1/min	Ventilation:	**external**
Rated Torque:	**167** Nm	Power Factor:	**0.89**	V:	**2 x NMB-B50**
Voltage:	**340** V	Efficiency:	**-** %	FZH: **180** c/h ED:	**50** %
Current:	**46** A	TMA:	**245** Nm	Design Code:	**A4**
Frequency:	**73.3** Hz	IMA:	**67** A	Protection Code:	**IP21**
Sense of Rotation:	**cw / ccw**	Brake Voltage	**-** VDC	Duty Code:	**S5**
Connection:	**Star**	Brake Current:	**-** ADC	Diagram No:	**-**

Design Information

Core Length:	**160** mm	Weight:	**150** kg		
Stator Slot:	**-**	Rotor Slot:	**-**		
Stator Slot Dim / Area:		**-** mm/mm²			
Rotor Slot Dim:	**-** mm	Rotor Slope:	**-**		
Rotor Slot Bottom Dia:	**-** mm	IMH:	**-** kgm²		
Bar Dim:	**-** mm	Magnetic Grade:	**-** W/kg	Endring Dim:	**-** mm
Bar Number:	**-**	Cast.Mld:	**-**	Alloy: **-**	Endring Material: **-**
Bar Material:	**-**				



Stator Outer Dia:	**-** mm
Stator Inner Dia:	**-** mm
Radial Gap:	**-** mm
Rotor Outer Dia:	**-** mm
Rotor Inner Dia:	**-** mm

Additional Info: **Weight: Complete machine without secondary sheave**
IMH: Rotor + shaft + traction sheave

Winding Data

	Stator Winding
Number of Poles:	**8**
Number of Slots:	**48**
Number of Coils:	**48**
Number of Turns per Coil:	**11**
Wire Diameter [mm]:	**-**
Number of Parallel Wires:	**-**
Wire Class:	**CuC2.5**
Winding Diagram:	**-**
Winding Connection:	**parallel**
Slot Fill Factor:	**-**
Resistance per Phase [Ω]	**0.23**
Weight of Winding [kg]:	**-**
Winding Leads [mm²]:	**-**

Insulation Class: **F**

Winding Protection: **Two temperature sensors KTY84-130**

Winding Instructions: **Insulation interlayer in the winding head between every coil.**

Parameter Data

PMN:	**19.2**	kW
FS_NOM:	**73.3**	Hz
POLE_PAIRS:	**4**	
NOM_TORQUE:	**167**	Nm
US_NOM:	**340**	V
IS_NOM:	**46**	A
FLUX:	**0.33**	Vs
IMot Peak:	**104**	A
XS:	**-**	Ω
Xq:	**3.15**	Ω
Xd:	**2.84**	Ω
RS:	**0.23**	Ω

***) Nameplate Data according to the manufacturer's documentation.**

1) Wire Class according to IEC 317-13

2) Limit Temperature of Hoisting Motor - Q 41601305

3) Parameter List - Q 41601303

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Modificat.	Ae0	Ae1	Ae2	Ae3	Ae4	Ae5
KA No	76529	142012				
KA Date	12-05-01	13-12-20				

Replaces/Mod.

Basis drawing

Prepared	13-12-20	jurkowbo
Reviewed	13-12-20	almadaen
Norms chkd	13-12-20	jurkowbo
Released	13-12-20	wespian

MOTOR SPECIFICATION

Classification	Remark	No. pages	Format
11120		4	A4
Lead Office: EB6	**Q 242643**	Page: 2	Language: E

05.12.2013

Type: **PMB130-CE-8BL176**

Id No: **144908**

Mechanical Design

Mech. Id No: **59607443** | BOM: **-** | Drawing No: **Z 59606290**

Painting:

Specifications: **Machine Id.No. 59607433. Manufactured by foreign supplier.**

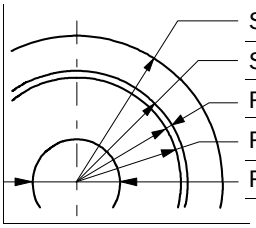
Electrical Rated Data *)

Kind of Motor: **Frequency-controlled permanent magnet synchronous motor**

Rated Output:	**19.2** kW	Speed:	**1098** 1/min	Ventilation:	**external**
Rated Torque:	**167** Nm	Power Factor:	**0.89**	V:	**2 x NMB-B50**
Voltage:	**340** V	Efficiency:	**-** %	FZH: **180** c/h ED:	**50** %
Current:	**46** A	TMA:	**245** Nm	Design Code:	**A4**
Frequency:	**73.3** Hz	IMA:	**67** A	Protection Code:	**IP21**
Sense of Rotation:	**cw / ccw**	Brake Voltage	**-** VDC	Duty Code:	**S5**
Connection:	**Star**	Brake Current:	**-** ADC	Diagram No:	**-**

Design Information

Core Length:	**160** mm	Weight:	**150** kg		
Stator Slot:	**-**	Rotor Slot:	**-**		
Stator Slot Dim / Area:		**-** mm/mm²			
Rotor Slot Dim:	**-** mm	Rotor Slope:	**-**		
Rotor Slot Bottom Dia:	**-** mm	IMH:	**-** kgm²		
Bar Dim:	**-** mm	Magnetic Grade:	**-** W/kg	Endring Dim:	**-** mm
Bar Number:	**-**	Cast.Mld:	**-**	Alloy: **-**	Endring Material: **-**
Bar Material:	**-**				



Stator Outer Dia:	**-** mm
Stator Inner Dia:	**-** mm
Radial Gap:	**-** mm
Rotor Outer Dia:	**-** mm
Rotor Inner Dia:	**-** mm

Additional Info: **Weight: Complete machine without secondary sheave**
IMH: Rotor + shaft + traction sheave

Winding Data

	Stator Winding
Number of Poles:	**8**
Number of Slots:	**48**
Number of Coils:	**48**
Number of Turns per Coil:	**11**
Wire Diameter [mm]:	**-**
Number of Parallel Wires:	**-**
Wire Class:	**CuC2.5**
Winding Diagram:	**-**
Winding Connection:	**parallel**
Slot Fill Factor:	**-**
Resistance per Phase [Ω]	**0.23**
Weight of Winding [kg]:	**-**
Winding Leads [mm²]:	**-**

Insulation Class: **F**

Winding Protection: **Two temperature sensors KTY84-130**

Winding Instructions: **Insulation interlayer in the winding head between every coil.**

Parameter Data

PMN:	**19.2**	kW
FS_NOM:	**73.3**	Hz
POLE_PAIRS:	**4**	
NOM_TORQUE:	**167**	Nm
US_NOM:	**340**	V
IS_NOM:	**46**	A
FLUX:	**0.33**	Vs
IMot Peak:	**104**	A
XS:	**-**	Ω
Xq:	**3.15**	Ω
Xd:	**2.84**	Ω
RS:	**0.23**	Ω

***) Nameplate Data according to the manufacturer's documentation.**

1) Wire Class according to IEC 317-13

2) Limit Temperature of Hoisting Motor - Q 41601305

3) Parameter List - Q 41601303

Modificat.	Ae0	Ae1	Ae2	Ae3	Ae4	Ae5
KA No	76529	142012				
KA Date	12-05-01	13.12-20				

Replaces/Mod.

Basis drawing

Prepared	13.12-20	jurkowbo
Reviewed	13.12-20	almadaen
Norms chkd	13.12-20	jurkowbo
Released	13.12-20	wespian

INVENTIO AG
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MOTOR SPECIFICATION

Classification	Remark	No. pages	Format
11120		4	A4
Lead Office	**Q 242643**	Page	Language
EB6		3	E

05.12.2013

Type: **PMB130-CE-8BS176**

Id No: **144908**

Mechanical Design

Mech. Id No: **59607443** | BOM: **-** | Drawing No: **Z 59606290**

Painting:

Specifications: **Machine Id.No. 59609629. Manufactured by foreign supplier.**

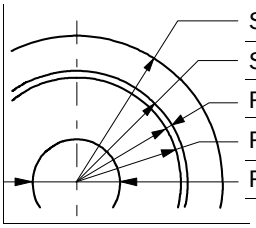
Electrical Rated Data *)

Kind of Motor: **Frequency-controlled permanent magnet synchronous motor**

Rated Output:	**19.2** kW	Speed:	**1098** 1/min	Ventilation:	**external**
Rated Torque:	**167** Nm	Power Factor:	**0.89**	V:	**2 x NMB-B50**
Voltage:	**340** V	Efficiency:	**-** %	FZH: **180** c/h ED:	**50** %
Current:	**46** A	TMA:	**245** Nm	Design Code:	**A4**
Frequency:	**73.3** Hz	IMA:	**67** A	Protection Code:	**IP21**
Sense of Rotation:	**cw / ccw**	Brake Voltage	**-** VDC	Duty Code:	**S5**
Connection:	**Star**	Brake Current:	**-** ADC	Diagram No:	**-**

Design Information

Core Length:	**160** mm	Weight:	**150** kg		
Stator Slot:	**-**	Rotor Slot:	**-**		
Stator Slot Dim / Area:		**-** mm/mm²			
Rotor Slot Dim:	**-** mm	Rotor Slope:	**-**		
Rotor Slot Bottom Dia:	**-** mm	IMH:	**-** kgm²		
Bar Dim:	**-** mm	Magnetic Grade:	**-** W/kg	Endring Dim:	**-** mm
Bar Number:	**-**	Cast.Mld:	**-**	Alloy: **-**	Endring Material: **-**
Bar Material:	**-**				



Stator Outer Dia:	**-** mm
Stator Inner Dia:	**-** mm
Radial Gap:	**-** mm
Rotor Outer Dia:	**-** mm
Rotor Inner Dia:	**-** mm

Additional Info: **Weight: Complete machine without secondary sheave**
IMH: Rotor + shaft + traction sheave

Winding Data

	Stator Winding
Number of Poles:	**8**
Number of Slots:	**48**
Number of Coils:	**48**
Number of Turns per Coil:	**11**
Wire Diameter [mm]:	**-**
Number of Parallel Wires:	**-**
Wire Class:	**CuC2.5**
Winding Diagram:	**-**
Winding Connection:	**parallel**
Slot Fill Factor:	**-**
Resistance per Phase [Ω]	**0.23**
Weight of Winding [kg]:	**-**
Winding Leads [mm²]:	**-**

Insulation Class: **F**

Winding Protection: **Two temperature sensors KTY84-130**

Winding Instructions: **Insulation interlayer in the winding head between every coil.**

Parameter Data

PMN:	**19.2**	kW
FS_NOM:	**73.3**	Hz
POLE_PAIRS:	**4**	
NOM_TORQUE:	**167**	Nm
US_NOM:	**340**	V
IS_NOM:	**46**	A
FLUX:	**0.33**	Vs
IMot Peak:	**104**	A
XS:	**-**	Ω
Xq:	**3.15**	Ω
Xd:	**2.84**	Ω
RS:	**0.23**	Ω

***) Nameplate Data according to the manufacturer's documentation.**

1) Wire Class according to IEC 317-13

2) Limit Temperature of Hoisting Motor - Q 41601305

3) Parameter List - Q 41601303

Modificat.	Ae0	Ae1	Ae2	Ae3	Ae4	Ae5
KA No	76529	142012				
KA Date	12-05-01	13.12-20				

Replaces/Mod.

Basis drawing

Prepared	13.12-20	jurkowbo
Reviewed	13.12-20	almadaen
Norms chkd	13.12-20	jurkowbo
Released	13.12-20	wespian

INVENTIO AG
CH-6052 Hergiswil

MOTOR SPECIFICATION

Classification	Remark	No. pages	Format
11120		4	A4
Lead Office	**Q 242643**	Page	Language
EB6		4	E

05.12.2013