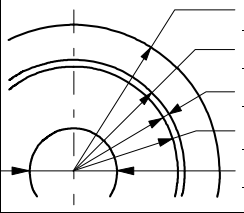


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Type: FMB130-CM-4CS80										Id No: 59605848																																	
Mechanical Design				Mech. Id No: 59607490				BOM: -				Drawing No: Z 41605161																															
				Painting:																																							
Specifications: Machine Id. No. 59609614. Manufactured by foreign supplier.																																											
Electrical Rated Data *)																																											
Kind of Motor: Frequency-controlled AC-Gearless asynchronous motor for Vacon																																											
Rated Output: 19.2 kW				Speed: 1098 1/min				Ventilation: external																																			
Rated Torque: 167 Nm				Power Factor: 0.83				V: 2 x NMB-B50																																			
Voltage: 180 V				Efficiency: - %				ZKH: 180 c/h ED: 50 %																																			
Current: 79 A				TMA: 245 Nm				Design Code: A4																																			
Frequency: 38.0 Hz				IMA: 113 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: 270 mm				Weight: 220 kg																																							
Stator Slot: 48/F68				Rotor Slot: 2_200_612																																							
Stator Slot Dim / Area: 23x7.8x5.5/146 mm/mm²																																											
Rotor Slot Dim: 18.7x5.6x4.0 mm				Rotor Slope: 1.5°																																							
Rotor Slot Bottom Dia: 135 mm				IMH: - kgm²																																							
Bar Dim: - mm				Magnetic Grade: 9.4 W/kg						Endring Dim: - mm																																	
Bar Number: 58				Cast.Mld: -				Alloy: Al 99.5		Endring Material: Al 99%																																	
Bar Material: Al																																											
Additional Info: Weight: Complete machine																																											
Winding Data																																											
				Stator Winding				Parameter Data																																			
Number of Poles:				4				PMN:		19.2		kW																															
Number of Slots:				48				FS_NOM:		38.0		Hz																															
Number of Coils:				24				POLE_PAIRS:		2																																	
Number of Turns per Coil:				5				NOM_TORQUE:		167		Nm																															
Wire Diameter [mm]:				-				US_NOM:		180		V																															
Number of Parallel Wires:				-				IS_NOM:		79		A																															
Wire Class:				CuC2.5				ISA_NOM:		32.8		A																															
Winding Diagram:				M 12001				TR:		0.34		s																															
Winding Connection:				series				XH:		2.86		Ω																															
Slot Fill Factor:				-				XR:		3.16		Ω																															
Resistance per Phase [Ω]				0.059				XS:		3.01		Ω																															
Weight of Winding [kg]:				-				RS:		0.059		Ω																															
Winding Leads [mm²]:				direct																																							
Insulation Class: F																																											
Winding Protection: Two temperature sensors KTY84-130																																											
Winding Instructions: Insulation interlayer in the winding head between every coil																																											
*) Nameplate Data																																											
1) Parameter List - Q 41601303																																											
2) Limit Temperature of Hoisting Motor - Q 41601305																																											
INVENTIO AG CH-6052 Hergiswil																		Modificat.		Ae0		Ae1		Ae2		Ae3		Ae4		Ae5		Replaces/Mod.		Prepared		13-12-20		jurkowbo					
																		KA No		142012																Reviewed		13-12-20		almadaen			
																		KA Date		13-12-20																Basis drawing		Norms chkd		13-12-20		jurkowbo	
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										11120								2		A4																							
MOTOR SPECIFICATION										Lead Office		Q 41604848						Page		Language																							
										EB6								1		E																							

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22.11.2013

Type: FMB130-CM-4CL80										Id No: 59605848	
Mechanical Design			Mech. Id No: 59607490			BOM: -			Drawing No: Z 41605161		
			Painting:								
Specifications: Machine Id. No. 59609609. Manufactured by foreign supplier.											
Electrical Rated Data *)											
Kind of Motor: Frequency-controlled AC-Gearless asynchronous motor for Vacon											
Rated Output:		19.2 kW		Speed:		1098 1/min		Ventilation:		external	
Rated Torque:		167 Nm		Power Factor:		0.80		V:		2 x NMB-B50	
Voltage:		180 V		Efficiency:		- %		ZKH:		180 c/h ED: 50 %	
Current:		79 A		TMA:		245 Nm		Design Code:		A4	
Frequency:		38.0 Hz		IMA:		113 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:			270 mm			Weight:			220 kg		
Stator Slot:			48/F68			Rotor Slot:			2_200_612		
Stator Slot Dim / Area:			23x7.8x5.5/146 mm/mm²								
Rotor Slot Dim:			18.7x5.6x4.0 mm			Rotor Slope:			1.5°		
Rotor Slot Bottom Dia:			135 mm			IMH:			- kgm²		
Bar Dim:			- mm			Magnetic Grade:			9.4 W/kg		
Bar Number:			58			Cast.Mld:			-		
Bar Material:			Al			Alloy:			Al 99.5		
						Endring Dim:			- mm		
						Endring Material:			Al 99%		
Additional Info: Weight: Complete machine											
Winding Data						Parameter Data					
Number of Poles:						PMN:					
4						19.2 kW					
Number of Slots:						FS_NOM:					
48						38.0 Hz					
Number of Coils:						POLE_PAIRS:					
24						2					
Number of Turns per Coil:						NOM_TORQUE:					
5						167 Nm					
Wire Diameter [mm]:						US_NOM:					
-						180 V					
Number of Parallel Wires:						IS_NOM:					
-						79 A					
Wire Class:						ISA_NOM:					
CuC2.5						32.8 A					
Winding Diagram:						TR:					
M 12001						0.34 s					
Winding Connection:						XH:					
series						2.86 Ω					
Slot Fill Factor:						XR:					
-						3.16 Ω					
Resistance per Phase [Ω]						XS:					
0.059						3.01 Ω					
Weight of Winding [kg]:						RS:					
-						0.059 Ω					
Winding Leads [mm²]:											
direct											
Insulation Class: F											
Winding Protection: Two temperature sensors KTY84-130											
Winding Instructions: Insulation interlayer in the winding head between every coil											
*) Nameplate Data											
1) Parameter List - Q 41601303											
2) Limit Temperature of Hoisting Motor - Q 41601305											