

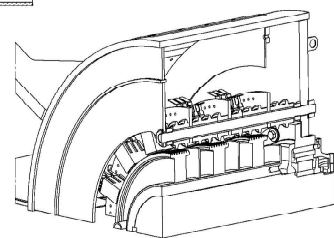
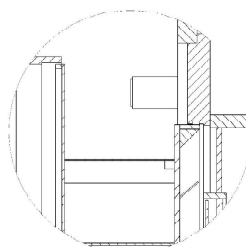
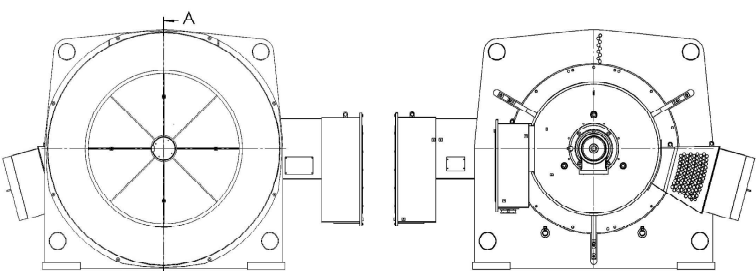
3 Technical Data

Pos	Item	English	Unit	Remark
1	General			
1.1	Type of machine	HRR011B06		
1.2	Project Name	HORMCEM		
1.3	Customer Name	Polysius		
1.4	Material number	526730		
1.5	Customer ID / Planus no.:	D000396.5F1.TM01.		
1.7	Project Number	DRV01-M1001		
1.8	Customer / Order No.	K.A11-10006		
1.9	Quantity	129955		
		1	piece	
1.10	Kind of machine	Three phase asynchronous motor with slip-ring rotor		
2	Mechanical Design Data			
		EN 60034 Efficiency and Temperature rise acc. EN60034-2 (1998)		
2.1	Design Standards and Specifications	S1		
2.2	Duty	IM 1001 (B3)		
2.3	Mounting form	clockwise	facing DE	
2.4	Direction of rotation	+7 / +48	°C	
2.5	Ambient Temperature min/max	14	m	
2.7	Site elevation	F		
2.10	Insulation class	B		
2.11	Temperature rise	IP 55		slip-ring-housing: IP 55 with filter
2.13	Degree of protection	F7		
2.14	Filter class	none		
2.15	Type of Ex - Protection	outdoor (under roof, avoid direct sunlight)		
2.16	Installation	22700	kg	
2.17	Mass of machine	6300	kg	
2.18	Mass of rotor	3,30	mm	
2.19	Air gap	590	kg m2	
2.20	Inertia of machine	K2 - Protection against 100% air humidity and chemically aggressive atmosphere		
2.32	Climatic protection stage	RAL 5012		
2.33	Final painting	DIN ISO 1940-1		
2.35	Balancing quality	Grade A acc. EN 60034 - 14		
2.36	Smoothness of running			
3	Electrical Design Data			
3.1	Rated Data on mains			
3.1.1	Rated Output	4900	kW	
3.1.6	Connection Stator	Star		

3.1.8	Rotor current (I ₂)	935	A	
3.1.9	Rotor voltage (U ₂₀)	3165	V	
3.1.12	Rated voltage (U _N)	6300	V AC	
3.1.13	Rated voltage - tolerances	+/-10	%	
3.1.14	Rated Frequency	50	Hz	
3.1.15	Rated frequency tolerances	+/- 3	%	
3.1.17	Rated Speed	993	rpm	
3.1.20	Over speed	1200	rpm	
3.1.21	for the duration of	max 2	min	
3.1.26	Rated Torque (FLT)	47100	Nm	
3.1.27	Full load current (FLC)	529	A	
3.2	Efficiency at			
3.2.1	4/4 - load	96.5% EN60034-2-1 (2007)		More information about efficiency calculation acc. to EN60034-2-1:
3.3	Power factor (cos phi)	96.65% EN60034-2 (1998)		
3.3.1	4/4 - load	0,88		
3.3.2	3/4 - load	0,86		
3.3.3	2/4 - load	0,80		
3.4	Starting Data			
3.4.1	Method of starting	by means of a rotor starter		(see additional price)
3.4.8	Break down torque (MK)	2,2 x FLT		
3.4.9	Starting frequency	depends on rotor starter		
4	Shaft/Coupling/Slipping			
4.1	Shaft			
4.1.2	Shaft end (amount)	1		
4.1.3	Shape of shaft end DE	normal cylindrical with key (The coupling half has to rest at least on the total length of the feather key.)		
4.2	Coupling	direct, flexible		
4.2.2	Coupling			
4.3	Slipping/Brushes/Brushholders			
4.3.1	Design	no brush lifting device – s.o.k		
4.3.2	Brush pressure	200	cN / cm ²	
5	Load Data			
5.1	Driven Load	mill		
5.2	Load moment of inertia (J)	583	kg m ²	referred to motor speed
5.3	Load torque curve	start up acc. data sheet		
6	Cooling			
6.1	Design Data			
6.1.1	Method of cooling	IC511		
7	Bearing Data			
7.2	Anti friction bearing	regreaseable anti friction bearing		
7.2.1	Type of bearing			

7.2.2	Type of lubrication	grease		Grease type: Klüberplex BEM41-132
7.2.5	Calculated lifetime	>40000	oh	operating hours
7.2.6	Relubrication	DE 185/1500		gram/operating
7.2.7	Insulated NDE bearing	NDE 125/1500	g/oh	hours
7.2.8	Fixed bearing	yes		
7.2.11	Additional force axial	DE-side		
9	Terminal boxes	none from driven machine		
9.1	Main Terminal box			
9.1.1	Line side terminal box	1, acc. ELIN standard		
9.1.1.2	Degree of Protection	IP 55		
9.1.1.5	Location	right		
9.1.1.7	Amount of connections (bus bar)	3		
9.1.1.8	location cable entry	bottom		
9.1.1.9	Gland plate	undrilled		
9.1.1.10	Amount of cables	max. 2 per phase		
9.1.2	Star Point Terminal box	none		
9.1.3	Rotor Terminal box	1, acc. ELIN standard		
9.1.3.2	Degree of Protection	IP55		
9.1.3.5	Location	on the right hand side		
9.1.3.7	Amount of connections (bus bar)	3		
9.1.3.8	location cable entry	from bottom		
9.1.3.9	Gland plate	undrilled		
9.2	Auxiliary Terminal boxes			
9.2.1	Monitoring Terminal box	1, acc. ELIN standard		
9.2.1.5	Location	right		
9.2.1.11	Amount of glands	2xM32 (Diameter 13-23mm)		
9.2.2	Space Heater TB	1, acc. ELIN standard		
9.2.2.5	Location	right		
9.2.2.11	Amount of glands	Standard 1xM32 (Diameter13- 23mm)		
10	Control and Monitoring Equipment			
10.1	Stator			
10.1.1	Stator Winding Temperature			
10.1.1.1	Sensor			
10.1.1.1.3	Type of element	Single PT100		
10.1.1.1.4	Number of elements	6	piece	
10.1.1.1.6	Connection from Terminal box	3 - wire		
10.1.1.1.2	Monitoring	without monitoring device		
10.3	Bearing			

10.3.2	Bearing metal temperature			
10.3.2.1	Sensor			
10.3.2.1.3	Type of element	Single PT100		
10.3.2.1.4	Number of elements	1	piece / bearing	
10.3.2.1.6	Connection from Terminal box	3-wire without monitoring device		
10.3.2.2	Monitoring			
10.3.5	Bearing vibration			
10.3.5.1	Sensor			
10.3.5.1.3	Type of element	SPM head transducer without monitoring equipment		
10.3.5.1.4	Number of elements	1	piece / bearing	
10.4	Space heater			
10.4.3	Rated voltage	230		
10.4.6	Amount of heaters	1	piece	lead to aux. terminal box
14	Supplementary equipment			
14.1	Foundation equipment			
14.1.1	Type of assembly	concrete plinth (blind hole)		
14.1.2	Foundation versions	sole rail (2 pieces/machine)		
14.1.4	Type of hold down bolts	Rag bolt for blind hole		
14.1.5	Amount of hold down bolts	6	piece	
14.1.6	Dimension of hold down bolts			
14.1.10	Levelling screws	6		
14.1.12	Shims	yes		
14.2	Labeling			
14.2.1	Rating plate			
14.2.2	Material	stainless steel		
14.2.3	Language	English		
14.7	Other Equipment			
14.7.5	1. Further product specific data	Lighting of slipping compartment, acc. ELIN standard		

[illegible]

Geplante Montage: PARTS LIST SOFTWARE	MASSA: Kilogramm	kg	Massenpunkt (Massepunkt): MASSA MALEMENT COT INERTIA:	kgm ²
MASSA: Kilogramm	kg		MASSA MALEMENT COT INERTIA: kgm ²	
126	1880011806 04.06.2018 1.1.20.2010	Einzelteil Wegscheider	KLARA INTELLECT, SCS - PNEU - PNEUMATIK	GEWERKE DETAILLE 01.01.2018 01.01.2018 01.01.2018 01.01.2018 01.01.2018
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B	ELIN Motoren A Triaxys Company ELIN Motoren GmbH Elin-Motoren-Straße 1 8160 Preding/Weiz Austria AS DE 3-Phase Asynchronous-Motor HRR011B06 Fab. No. 526730 10001 4900 kW S1 year of fabr.: 2010 DIN EN 60034 Y 6300 V +/- 10% 529 A ambient temp. +7/+48 °C U V W 993 1/min 50 Hz +/-3% cosφ = 0.88 I. Cl. F / B IP 55 rotor Y 3165 V 935 A 6 slot PT100, 2 bearing PT100 space heater 230 V / 2x 1000 W Customer ID: D000396.5F1.TM01.DRV01-M1001 mass: 22.700 kg ○ NU 2044 E/MC3 + 16044 MC3 ○ <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;">Schmiermenge/ Quantity</td> <td style="width: 30%;">185</td> <td style="width: 30%;">Gramm/ Gramme</td> <td style="width: 10%;"></td> </tr> <tr> <td>Schmierfrist/ Interval</td> <td>1500</td> <td>Betriebsd./ Op. hours</td> <td></td> </tr> </table> ○ KLÜBERPLEX BEM 41-132 ○ ○ NU 2044 E/MC3 ○ <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;">Schmiermenge/ Quantity</td> <td style="width: 30%;">125</td> <td style="width: 30%;">Gramm/ Gramme</td> <td style="width: 10%;"></td> </tr> <tr> <td>Schmierfrist/ Interval</td> <td>1500</td> <td>Betriebsd./ Op. hours</td> <td></td> </tr> </table> ○ KLÜBERPLEX BEM 41-132 ○							Schmiermenge/ Quantity	185	Gramm/ Gramme		Schmierfrist/ Interval	1500	Betriebsd./ Op. hours		Schmiermenge/ Quantity	125	Gramm/ Gramme		Schmierfrist/ Interval	1500	Betriebsd./ Op. hours		B																																	
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