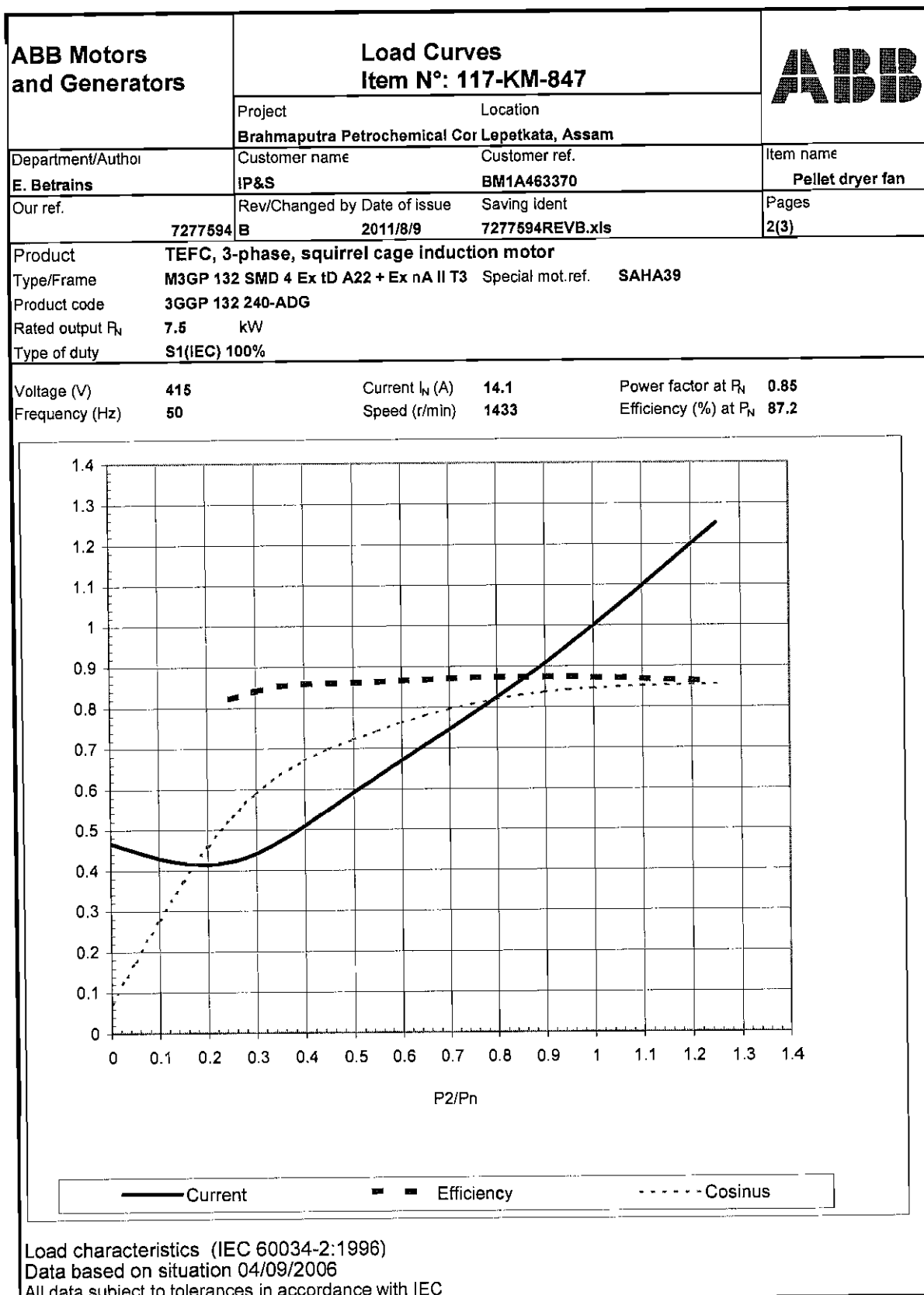


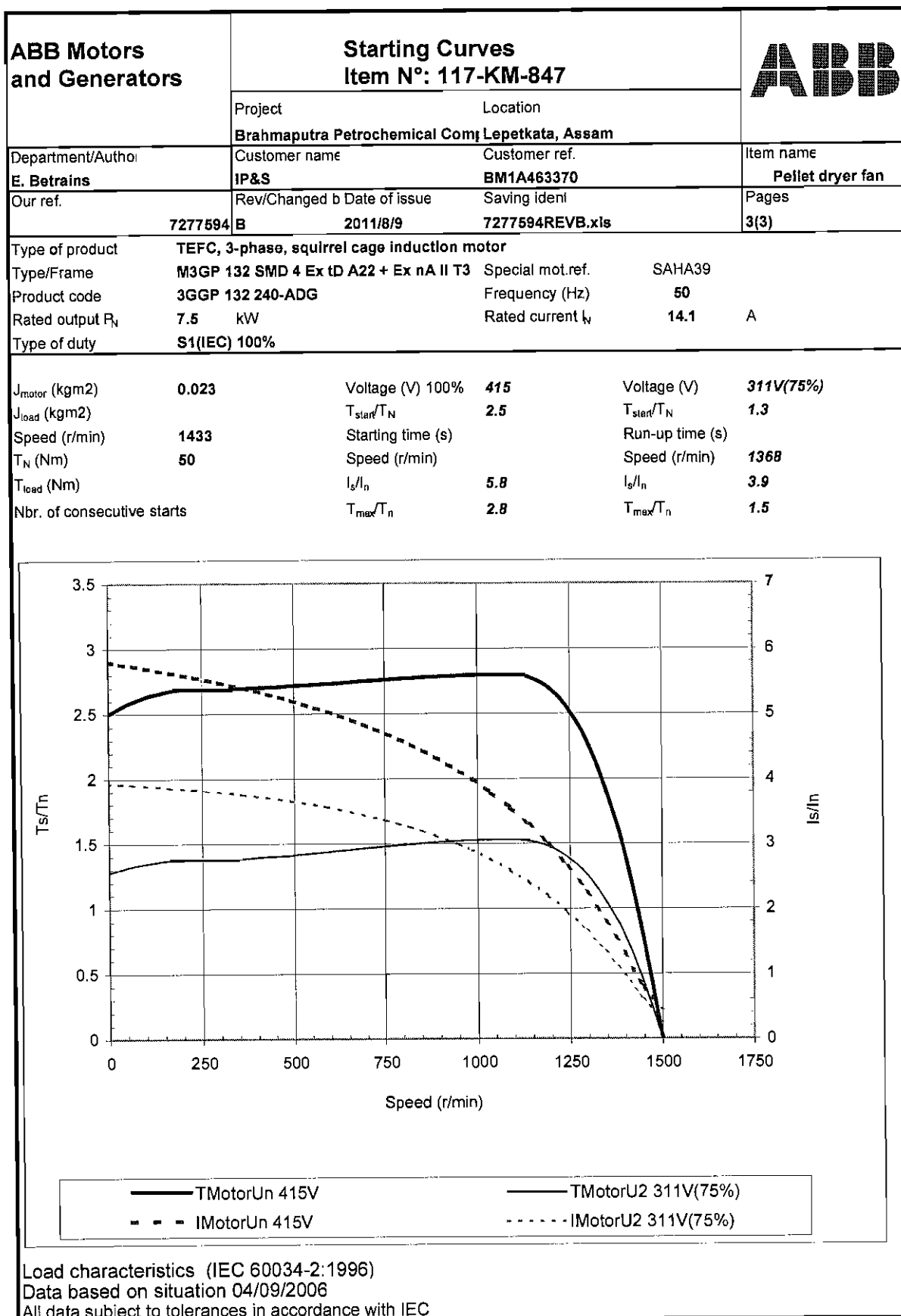
**MEDIUM VOLTAGE SQUIRREL CAGE
INDUCTION MOTOR**
**Datasheet No.
6907-117-LZ-DS-4420**
Rev-B
Page 1 of 1

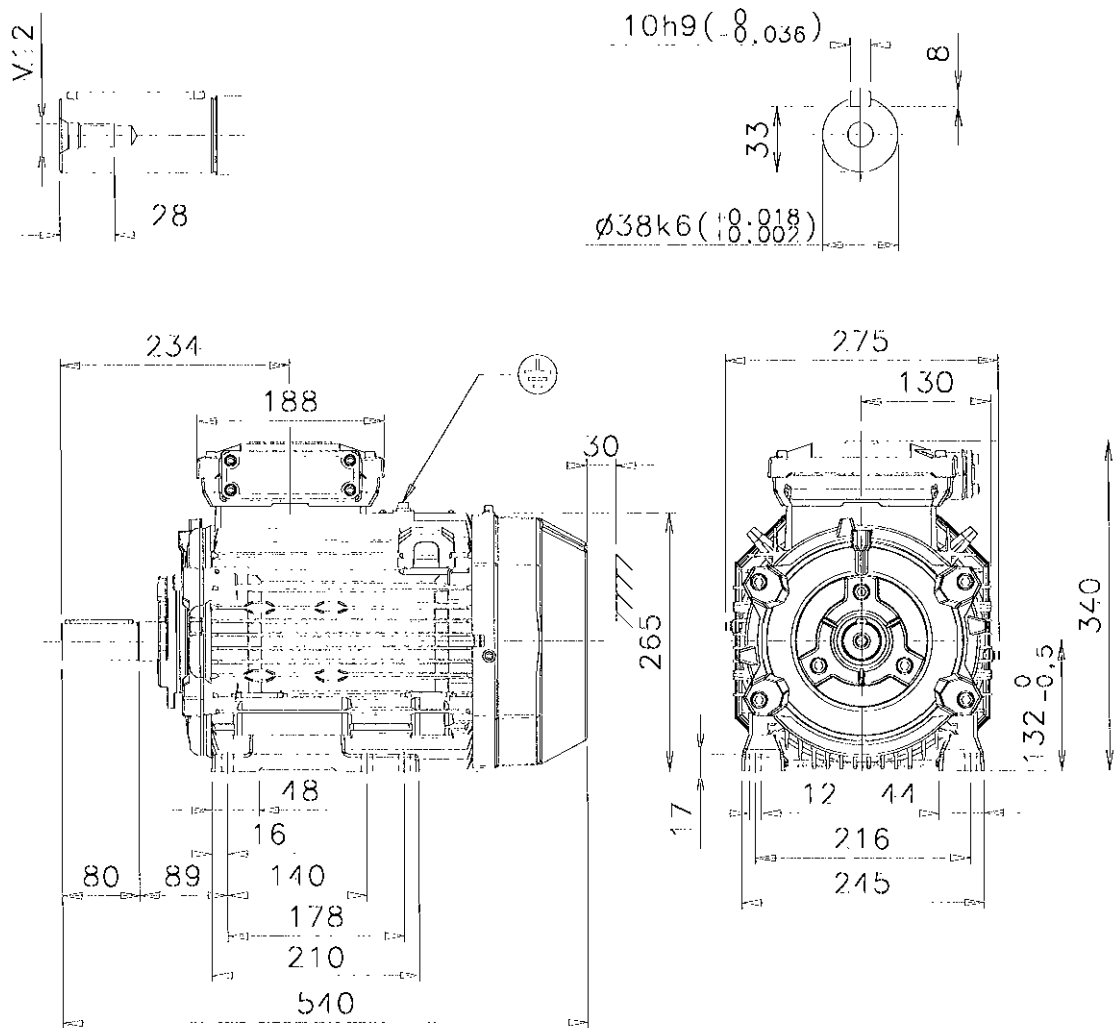
PURCHASER's DATA									
A. Site conditions									
1	Ambient temperature,	minimum:	1	°C	3	Atmospheric condition: Humid & highly corrosive			
		maximum:	39.8	°C	4	Altitude: < 1000 m			
		design:	40	°C	5	Location: Indoor			
2	Relative humidity:		93	%	6				
B. Technical particulars									
1	Motor tag no.:	117-KM-847							
2	Driven equipment name:	Pellet dryer fan							
3	Voltage:	415 V ±6%			16	Hazardous area classification:		Refer Job Spec.	
4	Phase:	Three			17	Gas group:		Refer Job Spec.	
5	Frequency:	50 Hz ±3%			18	Type of explosion protection:		Refer Job Spec.	
6	Fault level:				19	Type of ingress protection:		IP 55	
7	Method of starting:	DOL			20	Color shade:		RAL7031	
8	Winding connection:	Delta			21	Thermistors:	☐ Required	☒ Not required	
9	No. of terminals:	6			22	RTD:	☐ Required	☒ Not required	
10	Cable size:	3 x 6 mm ²			23	BTD:	☐ Required	☒ Not required	
11	Cable type:	Cu cond. PVC insulated			24	RTD/BTD monitoring device:		☐ Required	☒ Not required
12	Temperature rise:	80 °C				Make:			
13	Cooling:	TEFC							
14	Insulation class:	B/F with temp rise limited to Class B			25	Applicable specification:		EIL spec. 6-51-0032	
15	Temperature class:	T3			26			& 6907-117-LZ-SP-4420 Rev-B	
DRIVEN EQUIPMENT MANUFACTURER's DATA									
1	Suggested motor rating:	7.5 kW			9	Torque required,		starting:	N/A mkg
2	Manufacturer:	ABB						maximum:	N/A mkg
3	BkW at full load:	4.5 kW			10	GD ² of eqpt.,		including flywheel:	N/A kgm ²
4	kW at end of curve:							excluding flywheel:	3.0 kgm ²
5	Speed:	4 (P) RPM			11	Thrust, up:		N/A kg	
6	Rotation viewed from coupling end:	CW				down:		N/A kg	
7	Driven equipment:	Fan			12	Starting condition:		N/A	
8	Coupling type:	V-Belt							
MOTOR MANUFACTURER's DATA									
1	Rating:	7.5 kW			17	Efficiency at,		75% voltage:	87.2 %
2	Manufacturer:	ABB						100% voltage:	87.2 %
3	No. of poles:	4			18	Power factor at,		starting:	0.61
4	Frame designation:	132SM						100% load:	0.85
5	Full load speed:	1433 RPM			19	Moment of inertia, GD ² :		0.092	kgm ²
6	Mounting:	B3			20	NDE bearing type & no.:		6208/2Z/C3	
7	Full load torque (FLT):	50 Nm			21	DE bearing type & no.:		6208/2Z/C3	
8	Starting torque:	250 % of FLT			22	Type of lubrication:		Grease	
9	Break down or pull out torque:	280 %			23	Weight of motor:		108 kg	
10	Full load current (FLC):	14.1 A			24	Thermistors,	quantity:	no.	
11	Starting current at 100% voltage:	580 % of FLC				make:	type:		
12	Rotation viewed from coupling end:	CW or CCW			25	RTD,	quantity:	no.	
13	Starting time at,	75% voltage:		sec.		make:	type:		
		100% voltage:	18/10	sec.	26	BTD,	quantity:	no.	
14	Locked rotor withstand time (cold/hot) at,					make:	type:		
		75% voltage:	20/10	sec.	27	Shaft voltage:		V	
		100% voltage:		sec.	28	Critical speed, 1 st /2 nd stage:		RPM	
15	Space heater - voltage & power:	N/A			29	Canopy:	☐ Required	☒ Not required	
16	Applicable IS/IEC for hazardous area application:	IEC60079							

1. Starting time calculations shall be based on operating conditions specified on Material Requisition eg. open valve condition/ closed valve condition, at no load/full load, as applicable.

ABB Motors and Generators		Technical Data Sheet - DOL Item N°: 117-KM-847			
Project		Location			
Brahmaputra Petrochemical Complex		Lepetkata, Assam			
Department/Author	Customer name	Customer ref.	Item name		
E. Betraings	IP&S	BM1A463370	Pellet dryer fan		
Our ref.	Rev/Changed by	Date of issue	Saving ident	Pages	
7277594	B	2011/8/9	7277594REVB.xls	1(3)	
No.	Definition	Data	Unit	Remarks	
1	Product	TEFC, 3-phase, squirrel cage induction motor			
2	Product code	3GGP 132 240-ADG		Special mot.ref. SAHA39	
3	Type/Frame	M3GP 132 SMD 4 Ex tD A22 + Ex nA II T3			
4	Mounting	IM1001, B3(foot)			
5	Rated output P _N	7.5	kW		
6	Service factor	1			
7	Type of duty	S1(IEC) 100%			
8	Rated voltage U _N	415	VD	± 6 % (IEC 60034-1)	
9	Rated frequency f _N	50	Hz	± 3 % (IEC 60034-1)	
10	Rated speed n _N	1433	r/min		
11	Rated current I _N	14.1	A		
12	No-load current	6.6	A		
13	Starting current I _s /I _N	5.8			
14	Nominal torque T _N	50	Nm		
15	Locked rotor torque T _s /T _N	2.5			
16	Maximum torque T _{max} /T _N	2.8			
17	Minimum torque T _{min} /T _N	2.5			
18	Speed at minimum torque	0	r/min		
Load characteristics (IEC 60034-2:1996)		Load %	Current A	Efficiency %	Power factor
19		100	14.1	87.2	0.85
20		75	11	87.2	0.81
21		50	8.3	86.2	0.72
22		Start	82		0.61
23	Maximum starting time from ho	10	s		
24	Maximum starting time from col	18	s		
25	Insulation class / Temperature class	F / B			
26	Ambient temperature	40	°C		
27	Altitude	1000	m.a.s.l.		
28	Enclosure	IP55			
29	Cooling system	IC411 self ventilated			
30	Bearing DE/NDE	6208-2Z/C3 - 6208-2Z/C3			
31	Type of Grease	Greased for life			
32	Sound pressure level (LP dB(A) 1m	60	dB(A)	at load	
33	Moment of inertia J = ¼ GD ₂	0.023	kg-m2		
34	Balancing	Half Key			
35	Vibration class	Grade A			
36	Position of terminal bo	Top			
37	Terminal box entries; no, dimens	2 x (M32 x 1.5) mm			
38	Number of power terminals	6			
39	Direction of rotator	CW			
40	Total weight of moto	108	kg		
41	Dimension drawing no				
42	Paint color	RAL7031			
43					
44					
45					
Ex-motors					
46	Type of protector	Ex tD A22, T125°C + Ex nA II T3 (3G + D)			
47	Certification No				
48					
Option Variant Codes / Definition					
49	+209 Non-standard voltage or frequency, (special winding)				
50					
51					
52					
53					
54					
55					
Remarks:					
Data based on situation 04/09/2001					
All data subject to tolerances in accordance with IEC					
Guaranteed values on request					







Additional information:

- Cable entry size: 2 x (M32 x 1.5)
- Weight: 108kg

Dimension Print

Motor Type:

M3GP132SMD4 - 7.5kW-4p-B3
Ex tD A22 + Ex nA II T3 - IP55

Document No:

3GZF500113-14 B
13 KP 132 A

Description: STANDARD SQUIRREL CAGE MOTOR



Unit: ABB Oy, Motors

Issued by: T.Kuusisto

Replaces:

Date: 26.04.2006

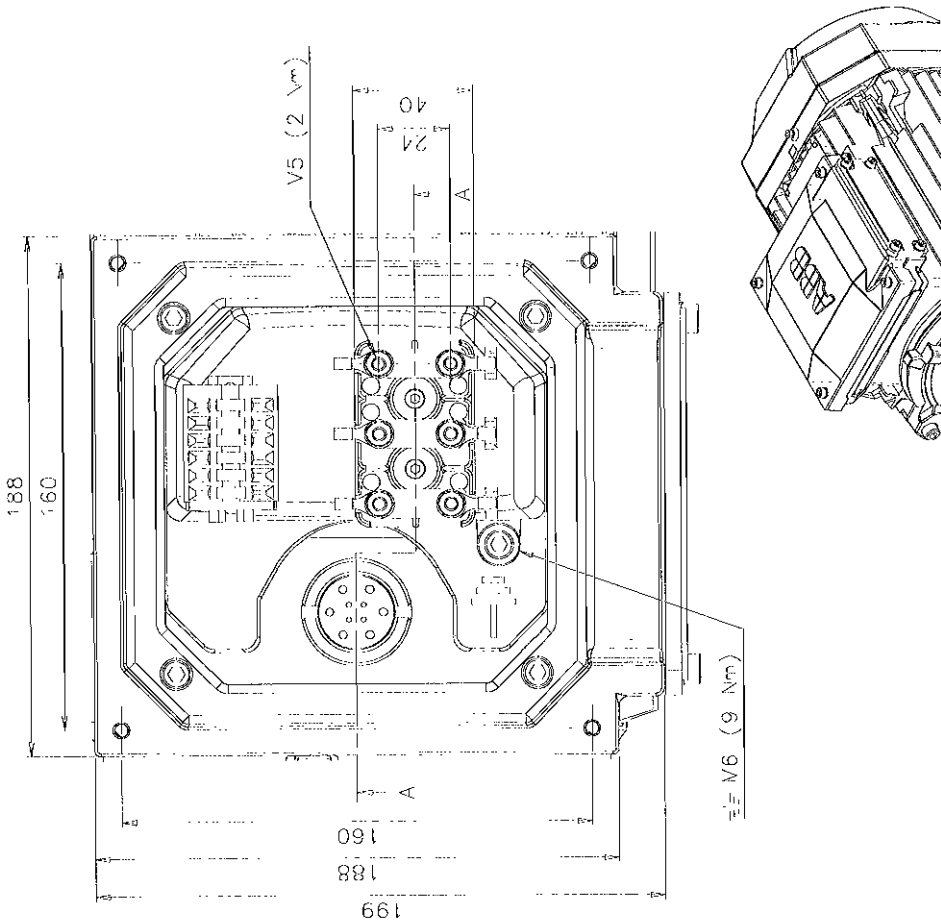
Approved by: S.Sauna-aho

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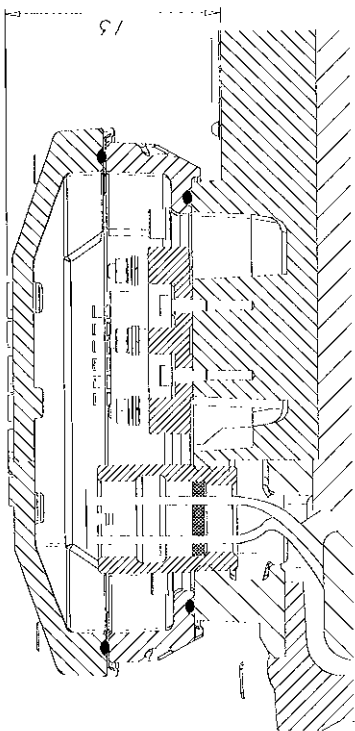
ABB Oy

Customer Reference:

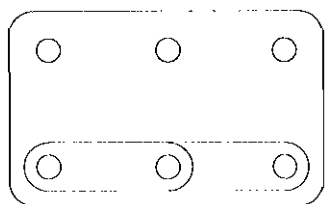
Pellet dryer fan
Item No. 117-KM-847



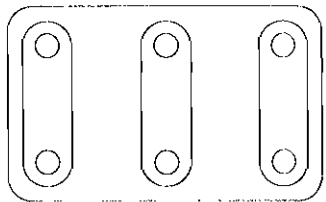
Section A-A



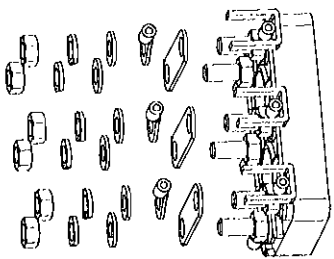
V-V-connection



D-KV-connection



L-TAA-USTA Terminal Board



Comment

Dimension Print

Motor Type: M3GP 80-132

Document No: 3GZF500708-48 C
13 KP 80 ZW

Description: Terminal box

Unit: Electrical Machines / LV Motors
Date: 02.12.2004

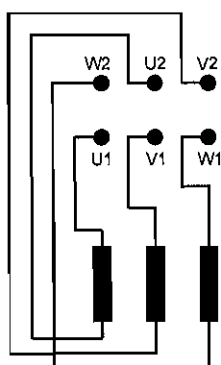
Issued by: J. Hägen
Approved by: J. A. Prinsén

Replaces:
Replaced by:

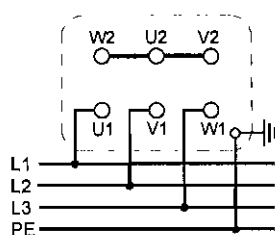
ABB Oy

ABB

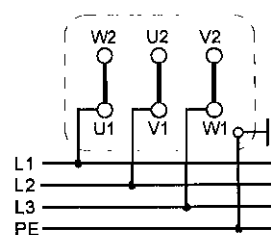
DIAGRAM OF CONNECTION
ANSCHLUSS-SCHEMA
SCHEMA DE BRANCHEMENT



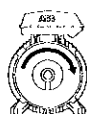
CONNECTION OF TERMINALS
ANSCHLUSS DES MOTORS
BRANCHEMENT DES BORNES



Y-connection
Y-Schaltung
Connection étoile



D-connection
D-Schaltung
Connection triangle



Direction of rotation with phase sequence shown in picture
Drehrichtung nach Schaltbild
Direction de rotation avec branchement ci-dessus

Motor No
Maschine Nr
No du moteur

ABB Oy, Electrical Machines
LV Motors

31 H2 U 19 E

Connection Diagram

Document No:
31 H2 U 19 E

Description:



Unit: Electrical Machines, LV Motors

Issued by: M Prusi

Replaces:

Date: 02.01.2002

Approved by:

Replaced by:

ABB Oy

Customer Reference:

ABB