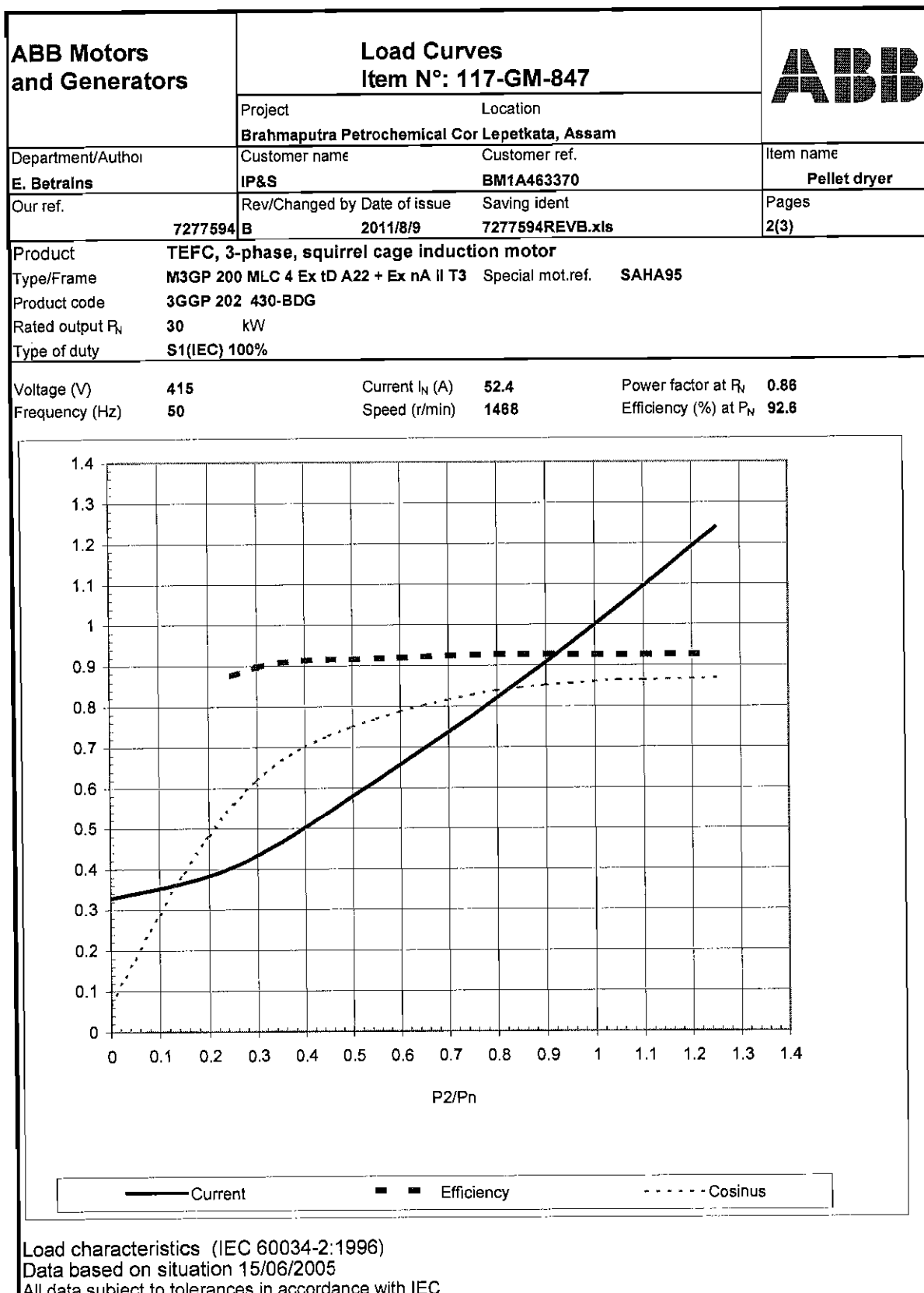


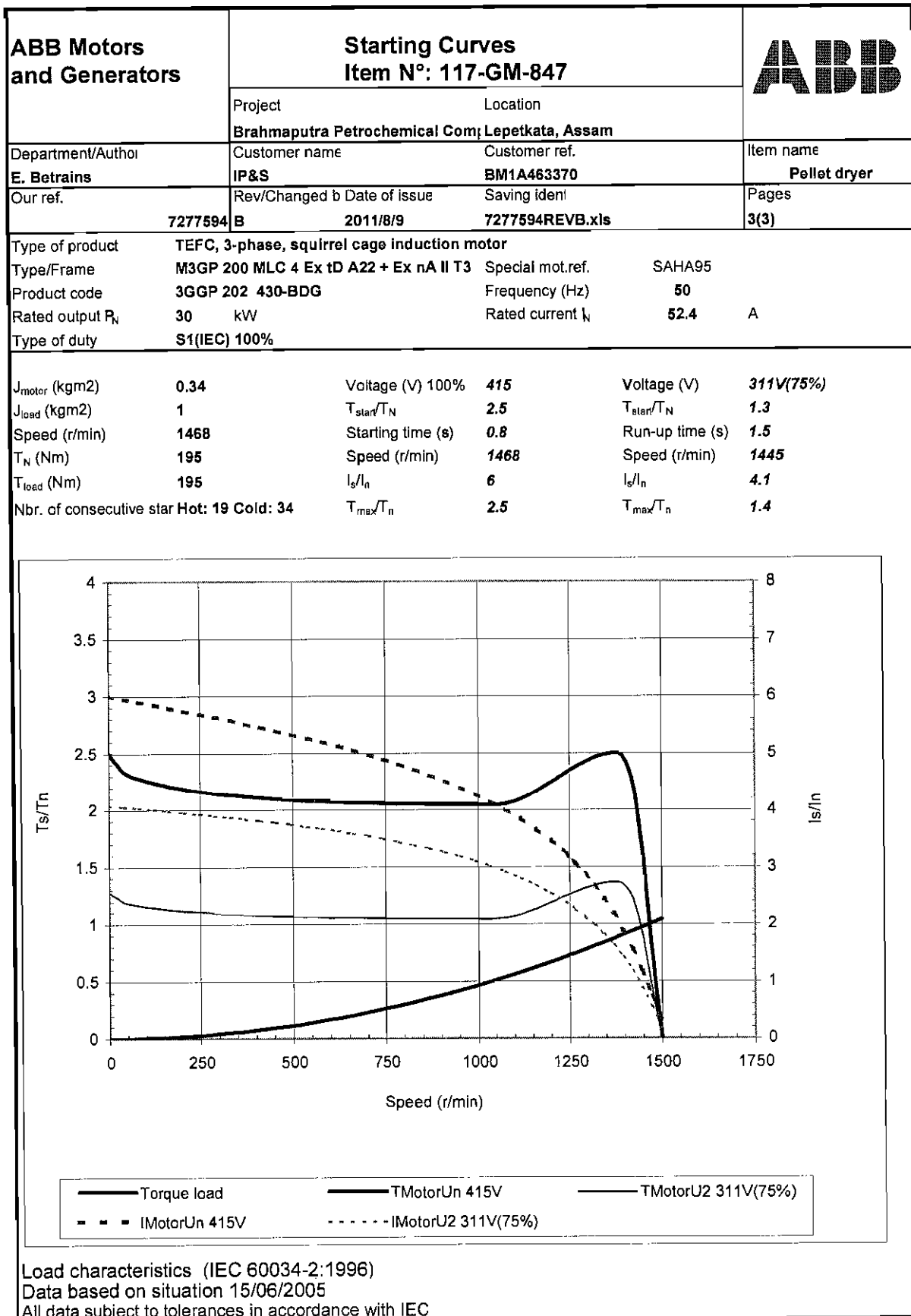
**MEDIUM VOLTAGE SQUIRREL CAGE
INDUCTION MOTOR**
Datasheet No.
6907-117-LZ-DS-4420
Rev-B
Page 1 of 1

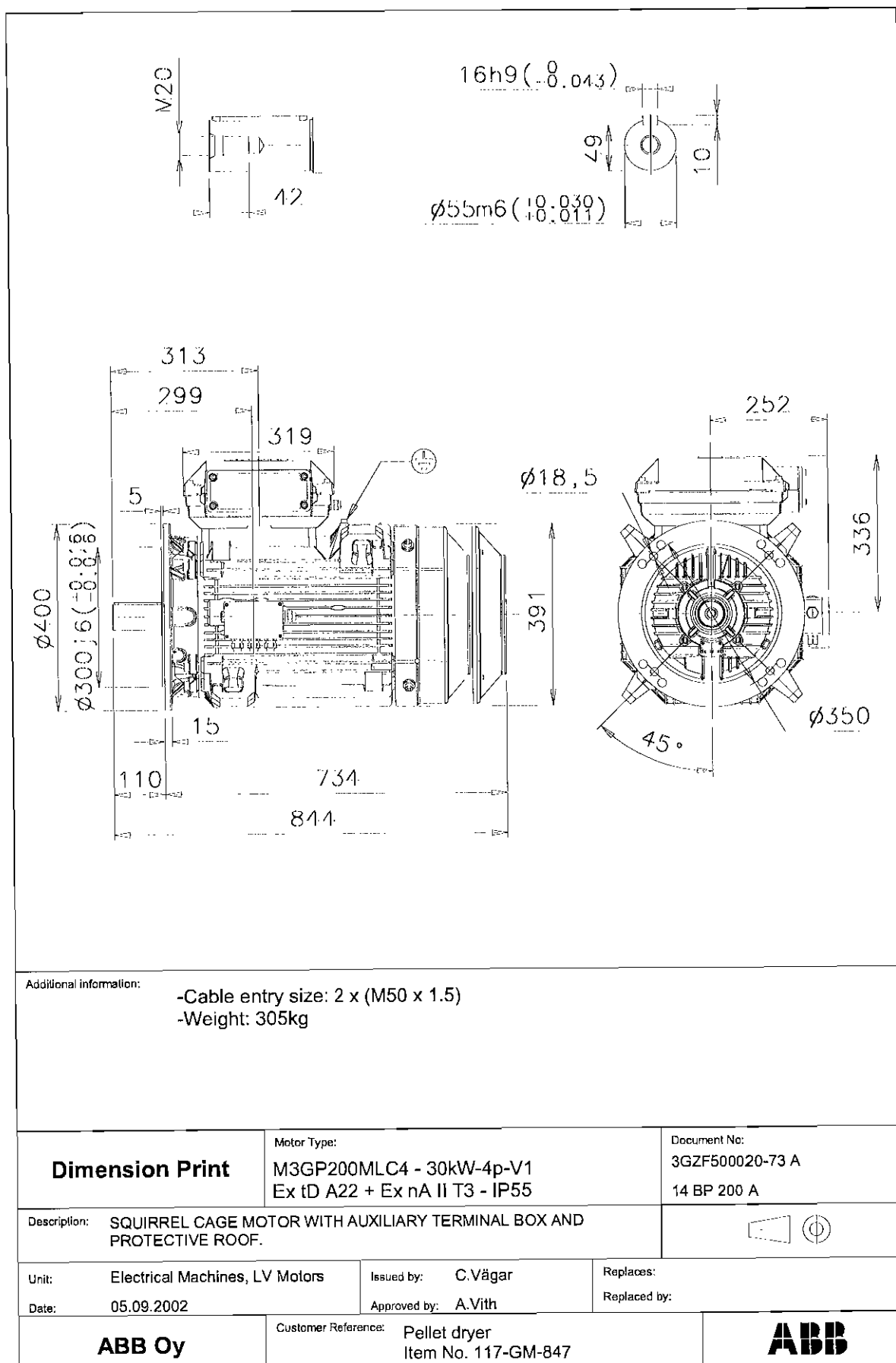
PURCHASER's DATA									
A. Site conditions									
1	Ambient temperature,	minimum:	1	°C	3	Atmospheric condition: Humid & highly corrosive			
		maximum:	39.8	°C	4	Altitude: < 1000 m			
		design:	40	°C	5	Location: Indoor			
2	Relative humidity:		93	%	6				
B. Technical particulars									
1	Motor tag no.:	117-GM-847							
2	Driven equipment name:	Pellet dryer							
3	Voltage:	415 V ±6%							
4	Phase:	Three							
5	Frequency:	50 Hz ±3%							
6	Fault level:								
7	Method of starting:	DOL							
8	Winding connection:	Delta							
9	No. of terminals:	6							
10	Cable size:	3 x 50 mm ²							
11	Cable type:	Al cond. PVC insulated							
12	Temperature rise:	80 °C							
13	Cooling:	TEFC							
14	Insulation class:	B/F with temp rise limited to Class B							
15	Temperature class:	T3							
16	Hazardous area classification:	Refer Job Spec.							
17	Gas group:	Refer Job Spec.							
18	Type of explosion protection:	Refer Job Spec.							
19	Type of ingress protection:	IP 55							
20	Color shade:	RAL7031							
21	Thermistors:	☐ Required ☒ Not required							
22	RTD:	☐ Required ☒ Not required							
23	BTD:	☐ Required ☒ Not required							
24	RTD/BTD monitoring device:	☐ Required ☒ Not required							
25	Applicable specification:	EIL spec. 6-51-0032							
26		& 6907-117-LZ-SP-4420 Rev-B							
DRIVEN EQUIPMENT MANUFACTURER's DATA									
1	Suggested motor rating:	30 kW							
2	Manufacturer:	ABB							
3	BkW at full load:	24 kW							
4	kW at end of curve:	kW							
5	Speed:	4 (P) RPM							
6	Rotation viewed from coupling end:	CCW							
7	Driven equipment:	Pellet dryer							
8	Coupling type:	V-Belt							
9	Torque required,	starting: N/A mkg							
		maximum: N/A mkg							
10	GD ² of eqpt.,	including flywheel: N/A kgm ²							
		excluding flywheel: 24.4 kgm ²							
11	Thrust, up:	N/A kg							
	down:	N/A kg							
12	Starting condition:	N/A							
MOTOR MANUFACTURER's DATA									
1	Rating:	30 kW							
2	Manufacturer:	ABB							
3	No. of poles:	4							
4	Frame designation:	200ML							
5	Full load speed:	1468 RPM							
6	Mounting:	V1							
7	Full load torque (FLT):	195 Nm							
8	Starting torque:	250 % of FLT							
9	Break down or pull out torque:	250 %							
10	Full load current (FLC):	52.4 A							
11	Starting current at 100% voltage:	600 % of FLC							
12	Rotation viewed from coupling end:	CW or CCW							
13	Starting time at,	75% voltage: sec.							
		100% voltage: 27/15 sec.							
14	Locked rotor withstand time (cold/hot) at,	75% voltage: sec.							
		100% voltage: sec.							
15	Space heater - voltage & power:	240V / 25W							
16	Applicable IS/IEC for hazardous area application:	IEC60079							
17	Efficiency at,	75% voltage: 92.6 %							
		100% voltage: 92.6 %							
18	Power factor at,	starting: 0.51							
		100% load: 0.86							
19	Moment of inertia, GD ² :	1.4 kgm ²							
20	NDE bearing type & no.:	6312/C3							
21	DE bearing type & no.:	NU313/C3							
22	Type of lubrication:	Grease							
23	Weight of motor:	305 kg							
24	Thermistors,	quantity: no.							
	make:	type:							
25	RTD,	quantity: no.							
	make:	type:							
26	BTD,	quantity: no.							
	make:	type:							
27	Shaft voltage:	V							
28	Critical speed, 1 st /2 nd stage:	RPM							
29	Canopy:	☒ Required ☐ Not required							
		(as fan cover)							

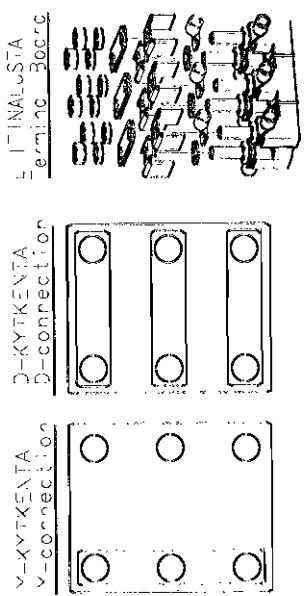
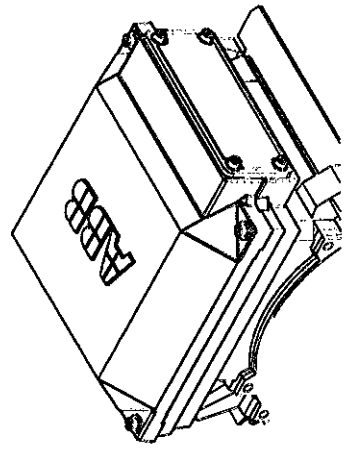
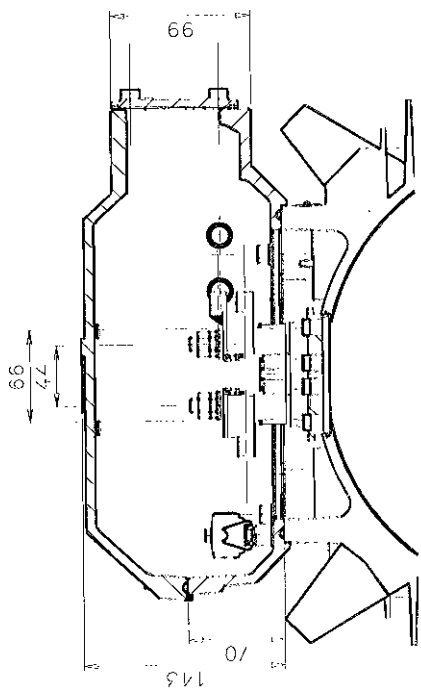
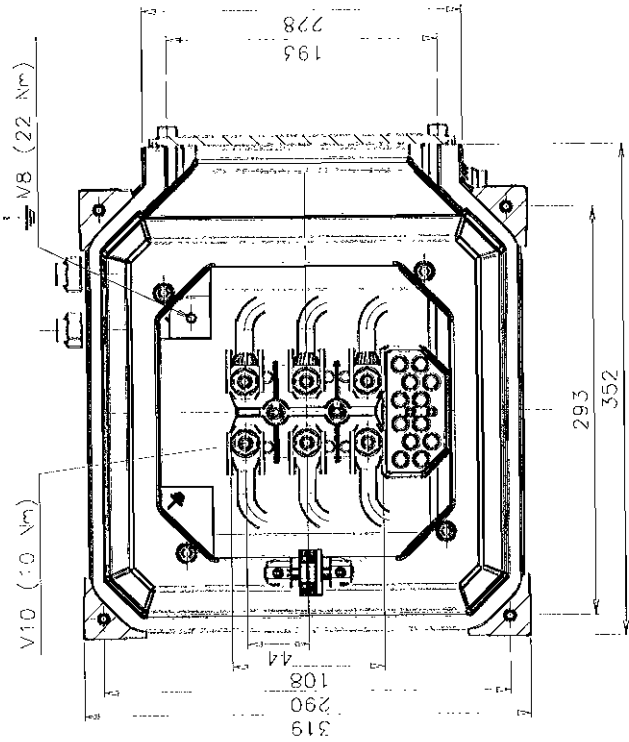
1. Starting time calculations shall be based on operating conditions specified on Material Requisition eg. open valve condition/ closed valve condition, at no load/full load, as applicable.

ABB Motors and Generators		Technical Data Sheet - DOL Item N°: 117-GM-847		ABB		
Project Brahmaputra Petrochemical Complex		Location Lepetkata, Assam				
Department/Author E. Betraings	Customer name IP&S	Customer ref. BM1A463370	Item name Pellet dryer			
Our ref. 7277594	Rev/Changed by B	Date of issue 2011/8/9	Saving ident 7277594REVB.xls	Pages 1(3)		
No.	Definition	Data	Unit	Remarks		
1	Product	TEFC, 3-phase, squirrel cage induction motor				
2	Product code	3GGP 202 430-BDG		Special mot.ref. SAHA95		
3	Type/Frame	M3GP 200 MLC 4 Ex tD A22 + Ex nA II T3				
4	Mounting	IM3011, V1(flange)				
5	Rated output P_N	30	kW			
6	Service factor	1				
7	Type of duty	S1(IEC) 100%				
8	Rated voltage U_N	415	VD	$\pm 6\%$ (IEC 60034-1)		
9	Rated frequency f_N	50	Hz	$\pm 3\%$ (IEC 60034-1)		
10	Rated speed n_N	1468	r/min			
11	Rated current I_N	52.4	A			
12	No-load current	17.2	A			
13	Starting current I_s/I_N	6				
14	Nominal torque T_N	195	Nm			
15	Locked rotor torque T_s/T_N	2.5				
16	Maximum torque T_{max}/T_N	2.5				
17	Minimum torque T_{min}/T_N	2				
18	Speed at minimum torque	1050	r/min			
Load characteristics (IEC 60034-2:1996)		Load %	Current A	Efficiency %	Power factor	
19		100	52.4	92.6	0.86	
20		75	40.7	92.6	0.83	
21		50	30.3	91.6	0.75	
22		Start	314		0.51	
23	Maximum starting time from ho	15	s			
24	Maximum starting time from col	27	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	NU313/C3 - 6312/C3				
31	Type of Grease	ESSO - Unirex N2				
32	Sound pressure level (LP dB(A) 1m	73	dB(A)	at load		
33	Moment of inertia $J = \frac{1}{2} GD^2$	0.34	kg-m2			
34	Balancing	Half Key				
35	Vibration class	Grade A				
36	Position of terminal box	Side				
37	Terminal box entries; no, dimens	2 x (M50 x 1.5) mm				
38	Number of power terminals	6				
39	Direction of rotation	CCW				
40	Total weight of moto	305	kg			
41	Dimension drawing no					
42	Paint color	RAL7031				
43						
44						
45						
Ex-motors						
46	Type of protection	Ex tD A22, T125°C + Ex nA II T3 (3G + D)				
47	Certification No					
48						
Option	Variant Codes / Definition					
49						
50						
51						
52						
53						
54						
55						
Remarks:						
Data based on situation 15/06/2001						
All data subject to tolerances in accordance with IEC						
Guaranteed values on request						



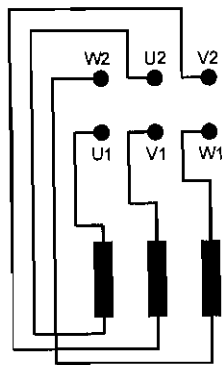




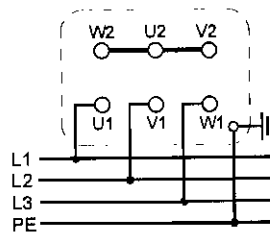


Comment:	Dimension Print		Motor Type MSGP/HP 200-250	Document No: 3GZF500720-41 A 13 GP 200 ZW
	Terminal Box			
	Description:			
	Unit:	Electrical Machines, LV Motors	Issued by:	J. Salakka
	Date:	04.06.2001	Approved by:	L. Järvi
ABB Oy		Customer Reference:		
		Replaces:		
		Replaces by:		
		ABB		

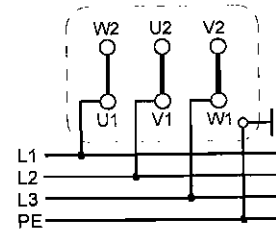
DIAGRAM OF CONNECTION
ANSCHLUSS-SCHEMA
SCHEMA DE BRANCHEMENT



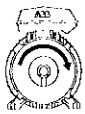
CONNECTION OF TERMINALS
ANSCHLUSS DES MOTORS
BRANCHEMENT DES BORNES



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

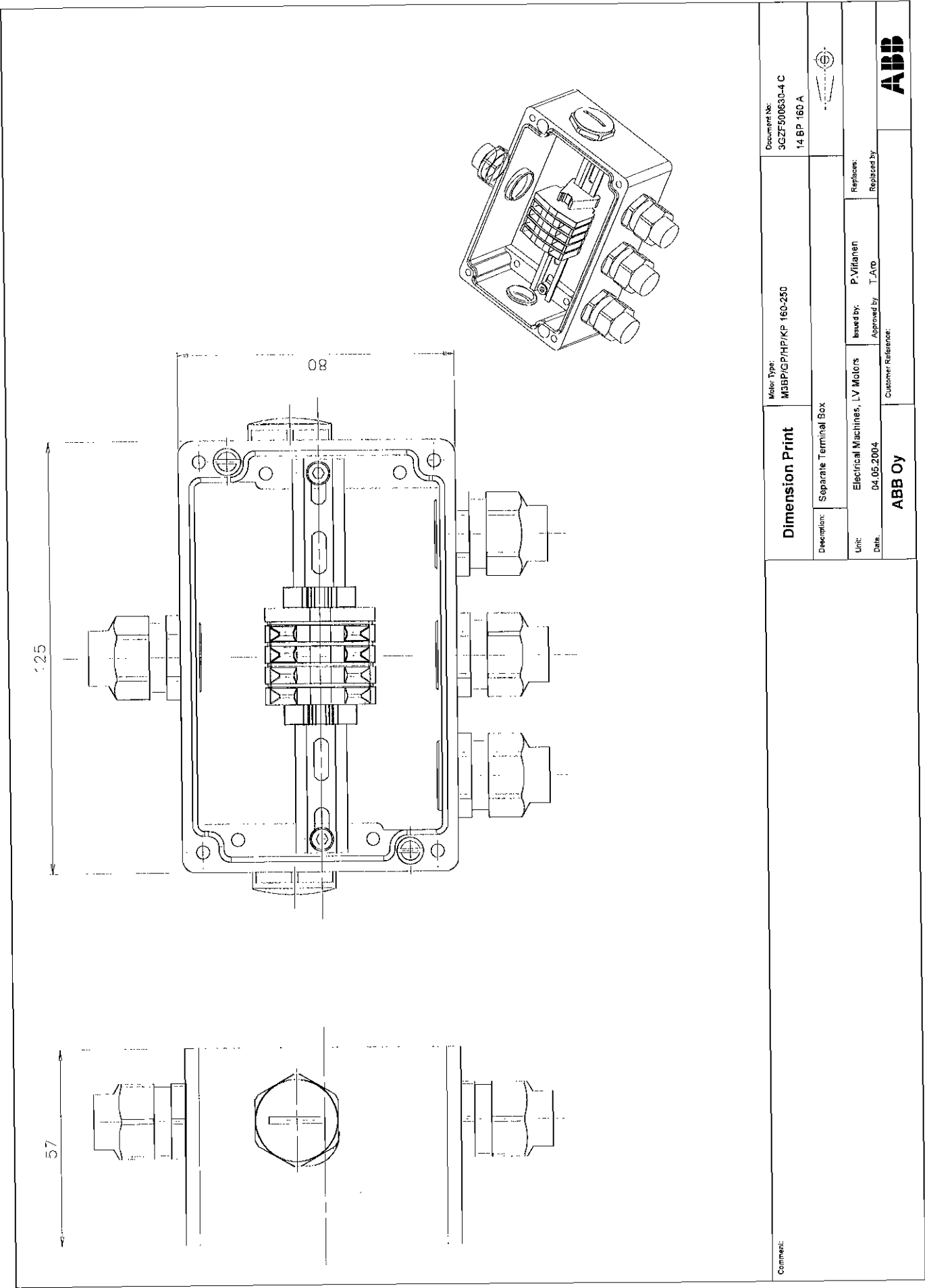
Approved by:

Replaced by:

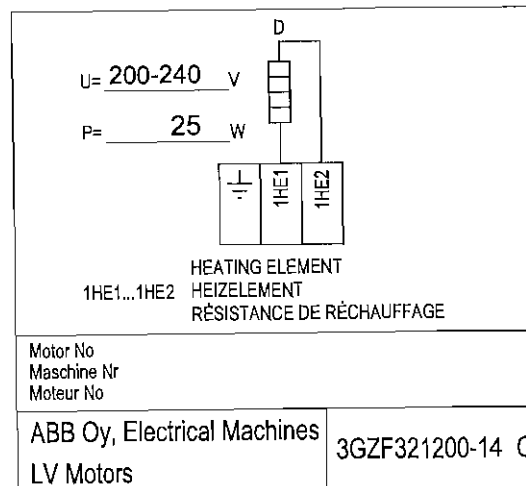
ABB Oy

Customer Reference:

ABB



ABB



Accessory Connection Diagram			Document No: 3GZF321200-14 C
Description: HEATING ELEMENT			
Unit: Electrical Machines, LV Motors	Issued by: K.Högvist	Replaces:	
Date: 15.01.2002	Approved by: M.Prusi	Replaced by:	
ABB Oy	Customer Reference:		ABB