

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: Outdoor
2	Relative humidity:	93 %	6
B. Technical particulars			
1	Motor tag no.:	117-OEM-480	
2	Driven equipment name:	Oil Misteliminator	
3	Voltage:	415 V ±6%	16 Hazardous area classification: Zone 2
4	Phase:	Three	17 Gas group: IIB
5	Frequency:	50 Hz ±3%	18 Type of explosion protection: Ex(d)
6	Fault level:	50 kA	19 Type of ingress protection: IP 55
7	Method of starting:	DOL	20 Color shade: RAL 7031
8	Winding connection:	Delta	21 Thermistors: ☐ Required ☒ Not required
9	No. of terminals:	6	22 RTD: ☐ Required ☒ Not required
10	Cable size:	3C x 4mm ²	23 BTd: ☐ Required ☒ Not required
11	Cable type:	CYWY	24 RTD/BTD monitoring device: ☐ Required ☒ Not required
12	Temperature rise:	80 °C	
13	Cooling:	TEFC	Make:
14	Insulation class: (Temp rise limited to cl. B)	F	25 Applicable specification: EIL spec. 6-51-0032
15	Temperature rise:	T4	26 and Relevant IS

DRIVEN EQUIPMENT MANUFACTURER's DATA

1	Suggested motor rating:	0.75 kW	9	Torque required, starting:	0.2 mkg
2	Manufacturer:	ABB		maximum:	0.2 mkg
3	BkW at full load:	0.23 kW	10	GD ² of eqpt., including flywheel:	N/A kgm ²
4	kW at end of curve:	N/A kW		excluding flywheel:	0.0006 kgm ²
5	Speed:	2830 RPM	11	Thrust, up:	N/A kg
6	Rotation viewed from coupling end:	CW		down:	N/A kg
7	Driven equipment:	Eliminator Fan	12	Starting condition:	DOL
8	Coupling type:	Flexible			

MOTOR MANUFACTURER's DATA

1	Rating:	0.75 kW	16	Efficiency at, 75% load:	75.7 %
2	Manufacturer:	ABB(FINLAND)		100% load:	75.6 %
3	No. of poles:	2	17	Power factor at, starting:	0.86
4	Frame designation:	80MA		100% load:	0.87
5	Full load speed:	2830 RPM	18	Moment of inertia, GD ² :	0.0024 kgm ²
6	Mounting:	IMB3	19	NDE bearing type & no.:	Anti-friction 6204-2Z/C3
7	Full load torque (FLT):	0.25 mkg	20	DE bearing type & no.:	Anti-friction 6205-2Z/C3
8	Starting torque:	280 % of FLT	21	Type of lubrication:	Greese
9	Break down or pull out torque:	290 %	22	Weight of motor:	37 kg
10	Full load current (FLC):	1.6 A	23	Thermistors, quantity:	N/A no.
11	Starting current at 100% voltage:	588 % of FLC		make: ABB type:	N/A
12	Rotation viewed from coupling end:	CCW	24	RTD, quantity:	N/A no.
13	Starting time at, 75% voltage:	<1 sec.		make: N/A type:	N/A
	100% voltage:	<1 sec.	25	BTD, quantity:	N/A no.
14	Locked rotor withstand time (cold/hot) at,			make: N/A type:	N/A
	75% voltage:	Note4 sec.	26	Shaft voltage:	N/A V
	100% voltage:	27/15 sec.	27	Critical speed, 1 st /2 nd stage:	125% of Rated Speed
15	Space heater - voltage & power:	N/A	28	Canopy: (GRP)	N/A

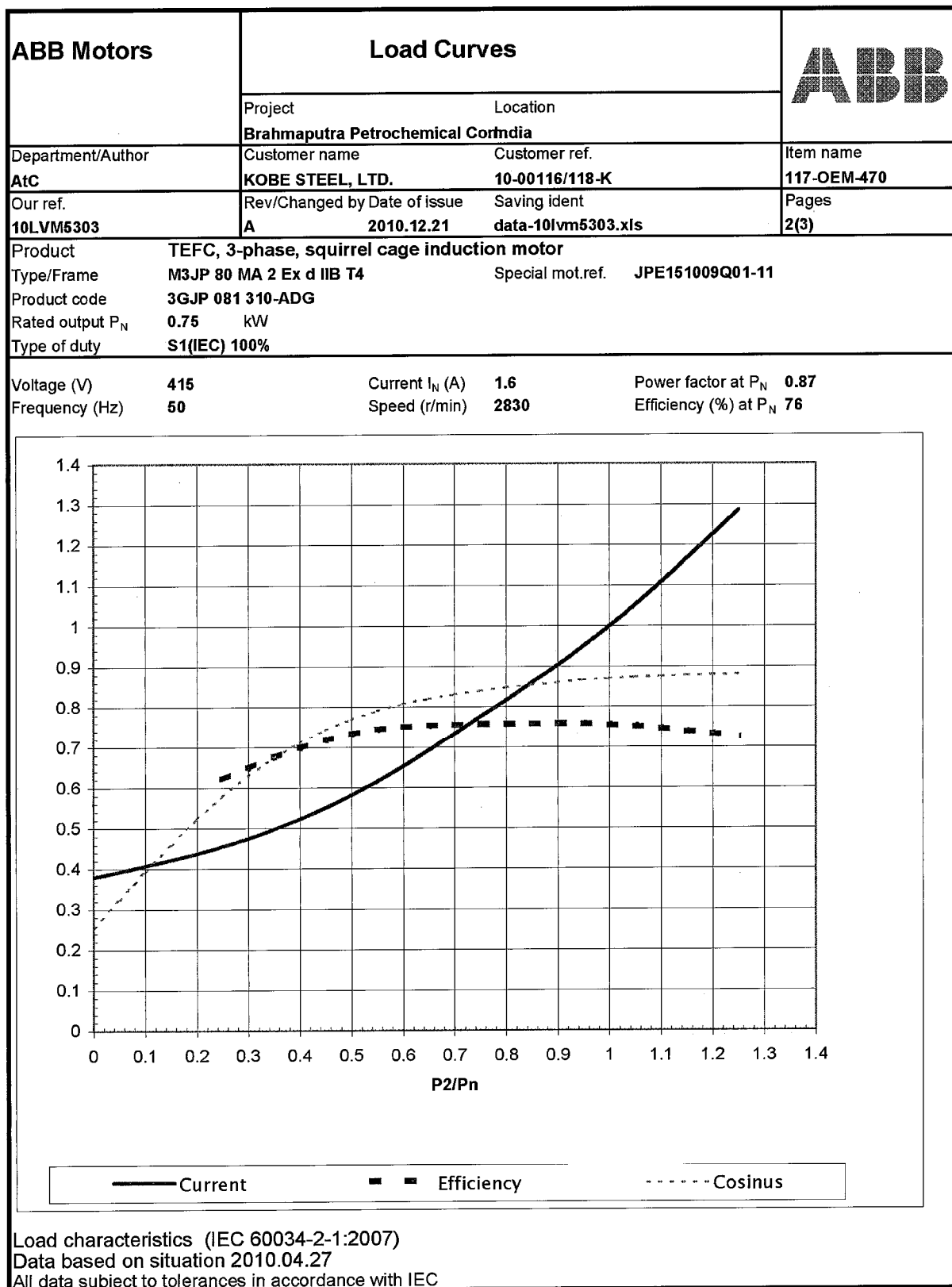
- Recommended list of maintenance spares for two years operation shall include the following as minimum
a) Bearing DE/NDE - one set b) Terminal box cover with screws c) Fan d) Terminal block
- Starting time calculations shall be based on operating conditions specified on Material Requisition
eg. open valve condition/closed valve condition, at no load/full load, as applicable.
- All unfilled data shall be filled by contractor/ vendor.
- Vender doesn't have data.

Rev. No.	Date	Purpose	Prepared by	Checked by	Approved by
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ABB Motors		Technical Data Sheet - DOL			ABB	
		Project	Location			
		Brahmaputra Petrochemical Complex		India		
Department/Author		Customer name	Customer ref.		Item name	
AtC		KOBE STEEL, LTD.	10-00116/118-K		117-OEM-470	
Our ref.		Rev/Changed by	Date of issue	Saving ident	Pages	
10LVM5303		A	2010.12.21	data-10lvm5303.xls	1(3)	
No.	Definition	Data	Unit	Remarks		
1	Product	TEFC, 3-phase, squirrel cage induction motor				
2	Product code	3GJP 081 310-ADG				
3	Type/Frame	M3JP 80 MA 2 Ex d IIB T4				
4	Mounting	IM1001, B3(foot)				
5	Rated output P _N	0.75	kW			
6	Service factor	1				
7	Type of duty	S1(IEC) 100%				
8	Rated voltage U _N	415	VD	± 5 % (IEC 60034-1)		
9	Rated frequency f _N	50	Hz	± 2 % (IEC 60034-1)		
10	Rated speed n _N	2830	r/min			
11	Rated current I _N	1.6	A			
12	No-load current	0.6	A			
13	Starting current I _s /I _N	5.9				
14	Nominal torque T _N	2.5	Nm			
15	Locked rotor torque T _s /T _N	2.8				
16	Maximum torque T _{max} /T _N	2.9				
17	Minimum torque T _{min} /T _N	2.7				
18	Speed at minimum torque	600	r/min			
Load characteristics (IEC 60034-2-1:2007)		Load %	Current A	Efficiency %	Power factor	
19	PLL determined from residual loss	100	1.6	75.6	0.87	
20		75	1.2	75.7	0.84	
21		50	0.92	73.4	0.77	
22		Start	9.4		0.86	
23	Maximum starting time from hot	15	s			
24	Maximum starting time from cold	27	s			
25	Insulation class / Temperature class	F / B				
26	Ambient temperature	55	°C			
27	Altitude	1000	m.a.s.l.			
28	Enclosure	IP55				
29	Cooling system	IC411 self ventilated				
30	Bearing DE/NDE	6205-2Z/C3 - 6204-2Z/C3				
31	Type of Grease	No need, Lifetime grease				
32	Sound pressure level (LP dB(A) 1m)	59	dB(A)	at load		
33	Moment of inertia J = ¼ GD2	0.0006	kg-m2			
34	Balancing	Half key balancing				
35	Vibration class	Class B (<0.7 mm/s) - Free suspension				
36	Position of terminal box	Top				
37	Terminal box entries; no, dimens.	1x M20 armoured cable gland (Inner OD:10.0-14.3mm, Outer OD: 12.5-20.5mm)				
38	Number of power terminals	6				
39	Direction of rotation	CW or CCW				
40	Total weight of motor	37	kg			
41						
42	Finished paint	RAL7031				
43	Critical speed	Over 125% of rated speed (Not defined 2nd critical speed)				
44	LRT (Hot / Cold)	15s / 27s				
45						
Ex-motors						
46	Type of protection	Ex d IIB T4				
47						
48						
Option Variant Codes / Definition						
50	002	Restamping voltage, frequency and output, continuous duty.				
51	114	Special paint colour, standard grade.				
52	135	Mounting of additional identification plate, stainless.				
53	148	Routine test report.				
54	209	Non-standard voltage or frequency (special winding).				
55	531	Sea freight packing				
56	762	Noise level test				
57	417	Vibration acc. to grade B (IEC 60034-14).				
Remarks:						
Data based on situation 2010.04.27						
All data subject to tolerances in accordance with IEC						
Guaranteed values on request						





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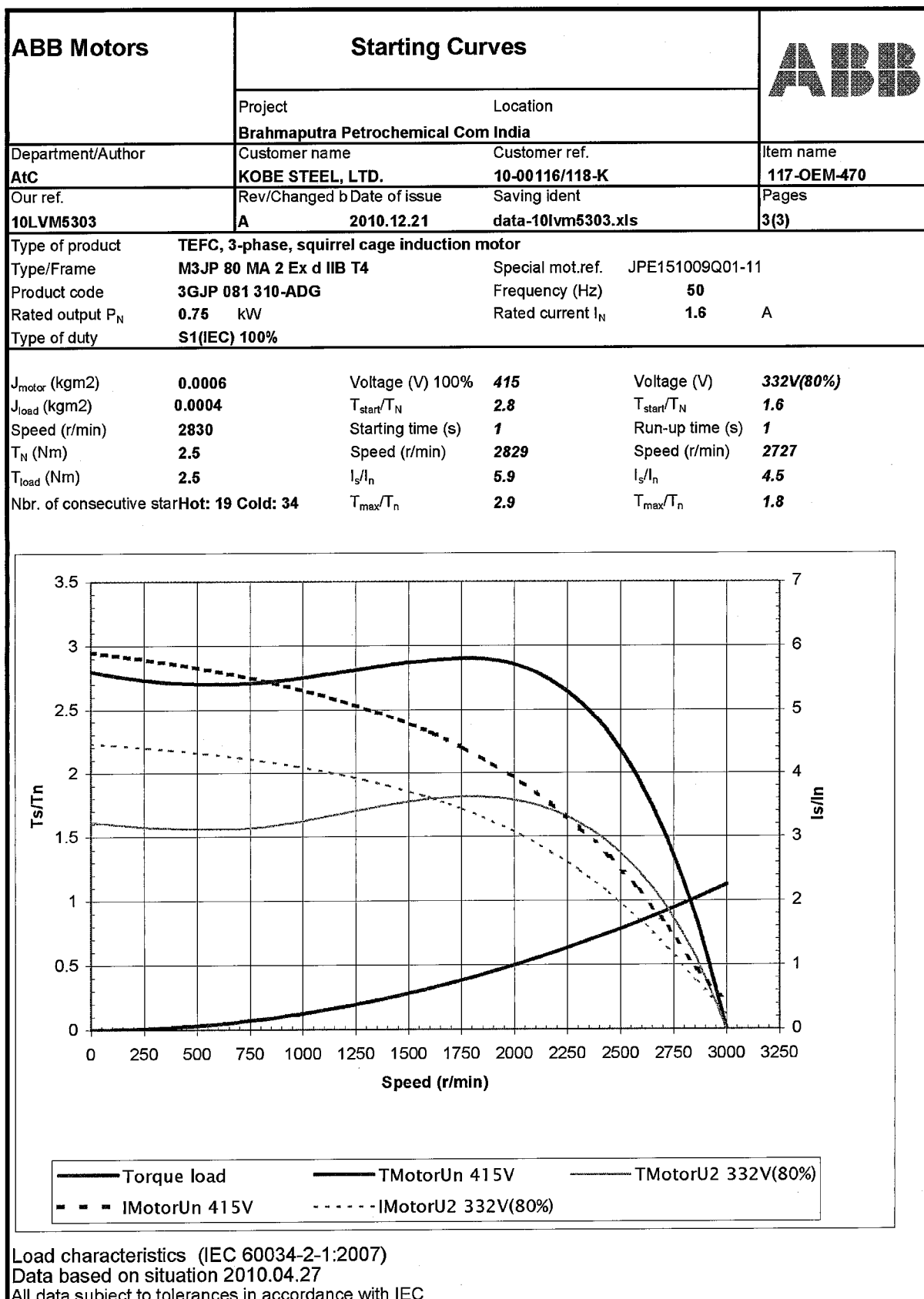
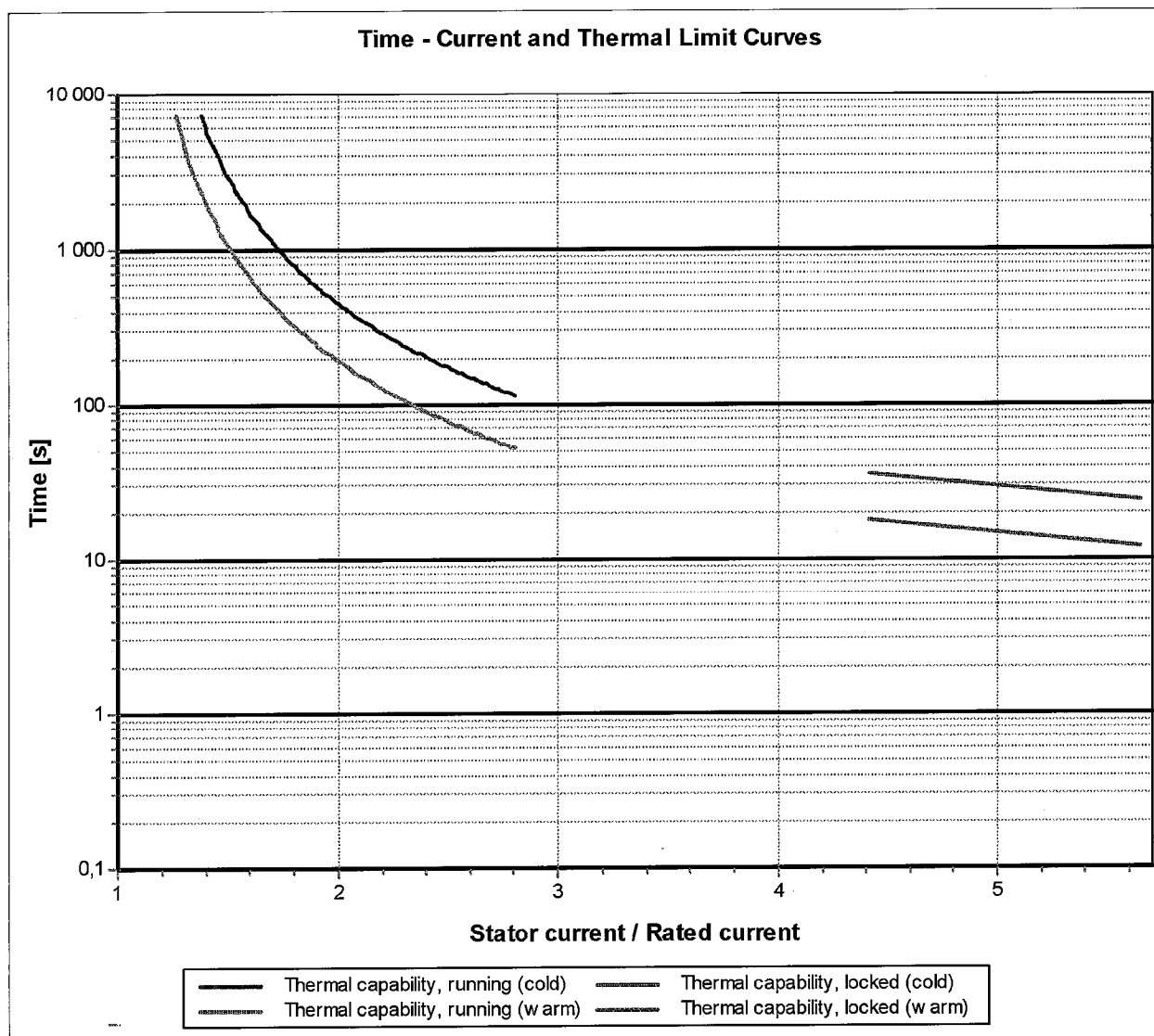


ABB Oy Motors		Classifying code or document type PERFORMANCE DATA OF MOTOR				
Department/Author MLA600/TISA	Date of issue 17.3.2011	Lang. En	Rev. date	Our ref. 3GZF021008-5		
Customer ref.	Saving Ident M3JP80MA2 0,75kW			Rev./Changed by A	Pages 1/1	

△ Motor type code: M3JP 80MA 2



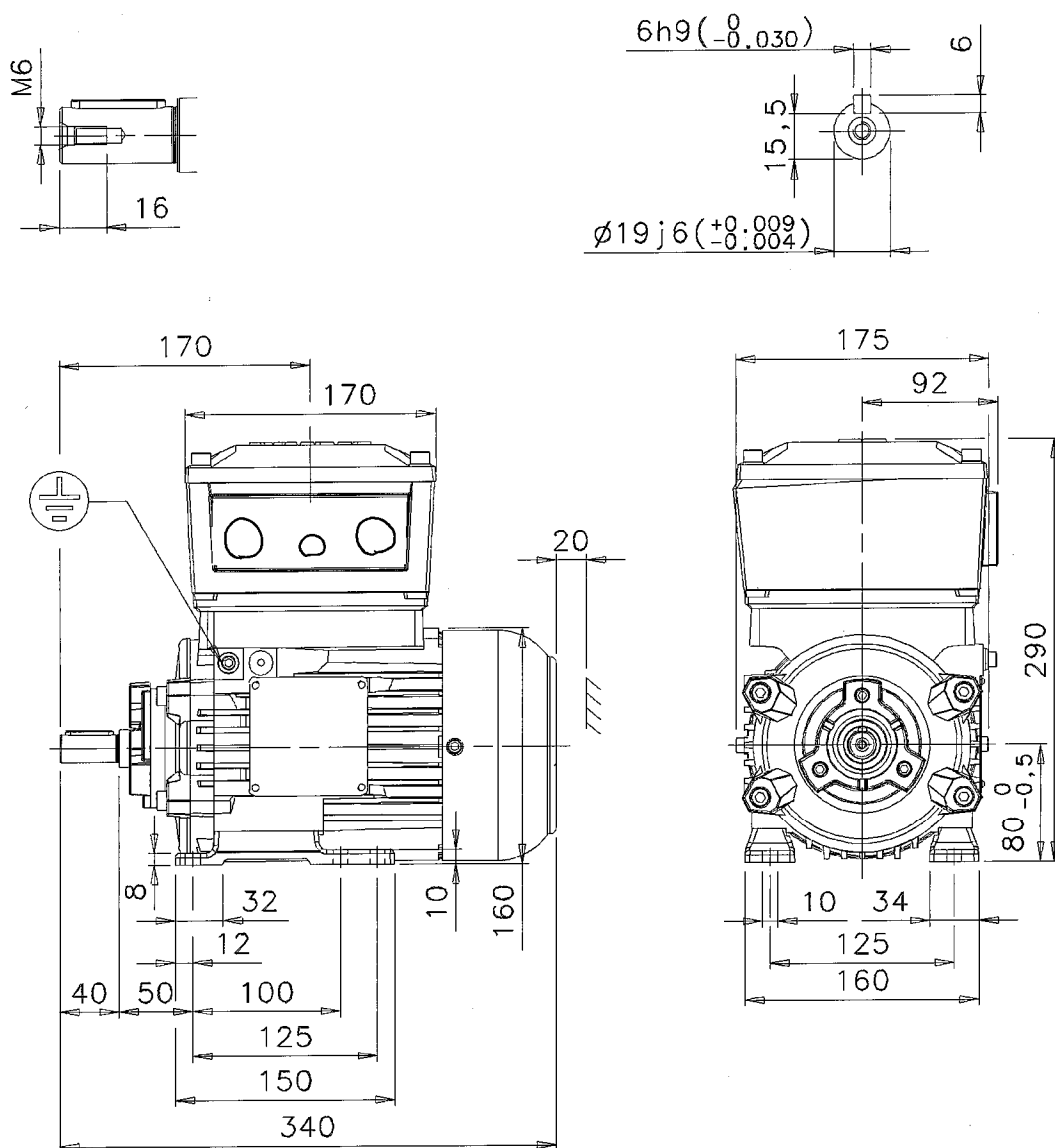
Motors

Visiting Address
Strömbergin puistotie 5 A
VAASA
FINLAND

ABB Oy
Postal Address
P.O. Box 633
FI-65101 VAASA
FINLAND

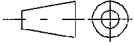
Telephone
+358 10 222 000

Telefax
+358 10 224 7372



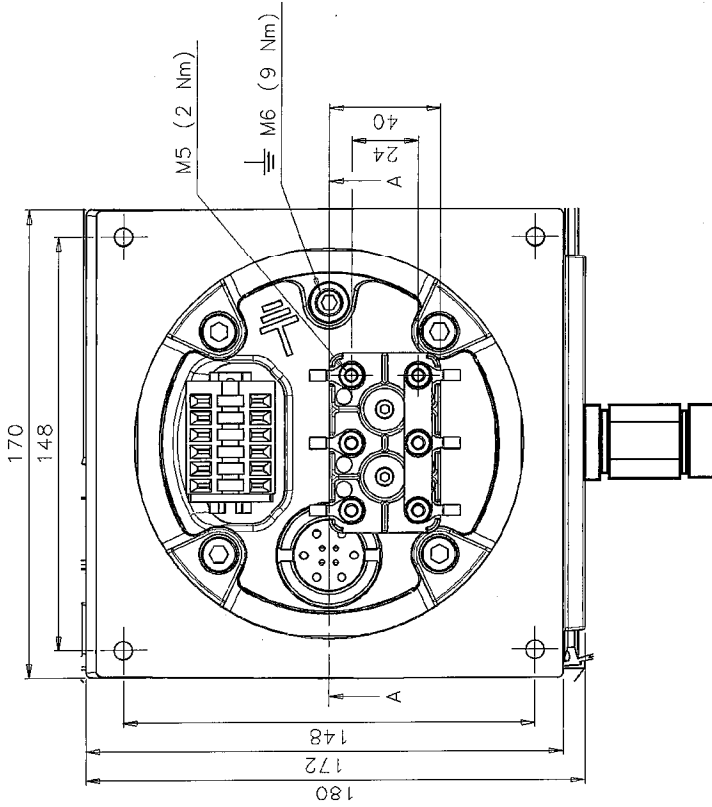
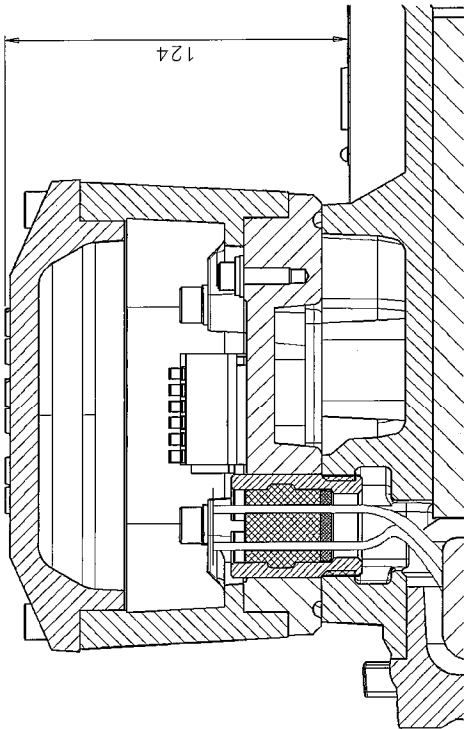
Additional information:

- Cable Entry RHS as viewed from D-end
- Terminal box is rotatable in steps 90 deg.
- ATEX certificate No. : LCIE 04 ATEX 6150

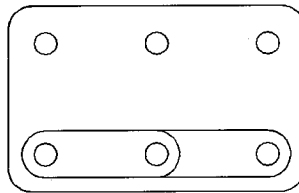
Dimension Print	Motor Type: M3JP 80M_2-8 B3,B6,B7,B8,V6	Document No: 3GZF500208-9 A 13 JP 80 A
Description: STANDARD SQUIRREL CAGE MOTOR		
Unit: Electrical Machines, LV Motors Date: 10.05.2004	Issued by: K.Högvist Approved by: R.Nykvist	Replaces: Replaced by:
ABB Oy	Customer Reference: TAG no. 117-OEM-470	ABB

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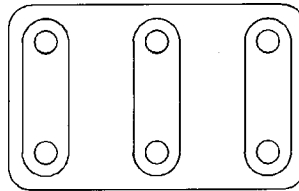
B



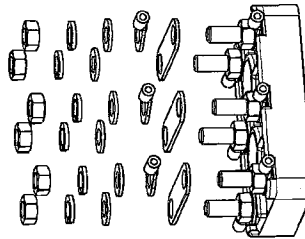
Y-KYTKENTÄ
Y-connection



D-KYTKENTÄ
D-connection

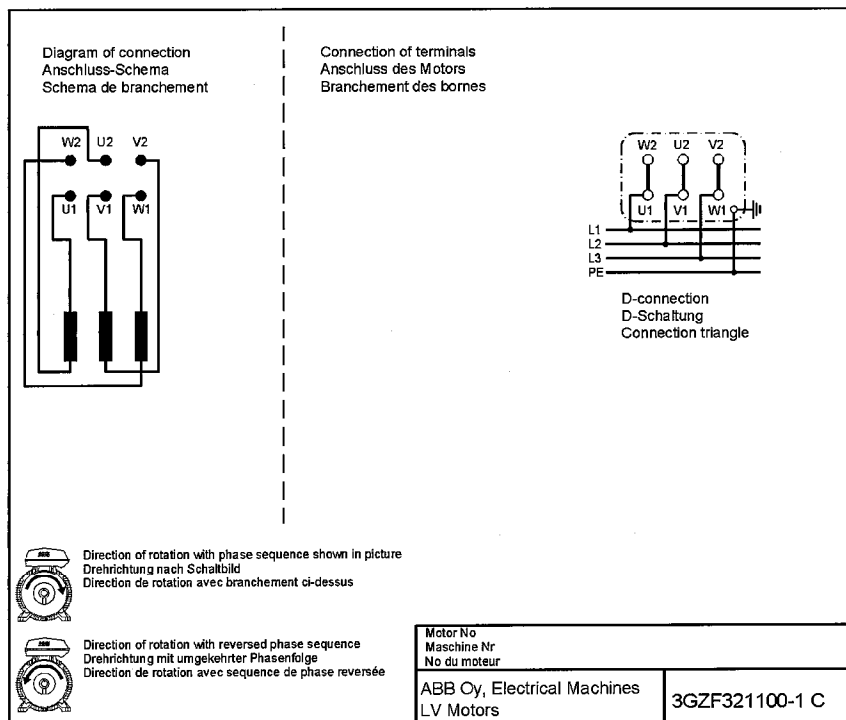


LIITINALUSTA
Terminal Board



Comment:

Dimension Print		Motor Type: M3 JP 80-132	Document No: 3GZFF500708-50 D 13 JP 80 ZW
Description:	Terminal box		
Unit:	Electrical Machines / LV Motors	Issued by: J. Hägen	Replaces:
Date:	10.08.2005	Approved by: J.-A. Prittsén	Replaced by:
ABB Oy		TAG no. 117-OEM-470	
			



Note:

When the mains supply is connected to the stator terminals marked U, V and W, of three phase motor, and the main phase sequence is L1, L2, L3 or R, S, T, the motor will rotate clockwise, as viewed from the D-end. The direction of rotation can be reversed by interchanging any two of the three conductors connected to the starter switch or motor.

Please see connection type, Y (Star) or D (Delta) on motor data sheet

Connection Diagram			Document No: 3GZF321100-1 C
Description: 3-PHASE SQUIRREL-CAGE MOTOR			
Unit: Electrical Machines, LV Motors	Issued by: M Prusi	Replaces:	
Date: 30.03.2004	Approved by: Jari Raittila	Replaced by:	
ABB Oy	Customer Reference: TAG no. 117-OEM-470		ABB