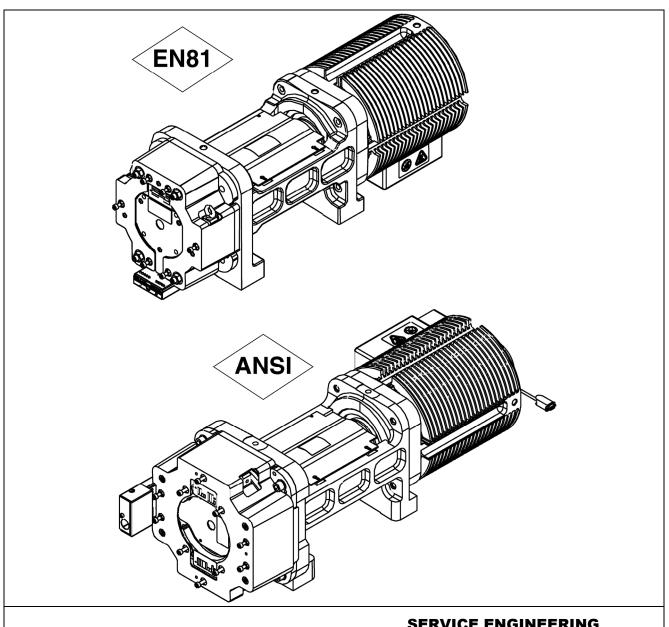
# Gen2® 3T AC Permanent Magnet Gearless Machine

# Spare Parts Leaflet 06-AAA20220AW

June 25, 2009 / Page 1 of 9



**OTIS** 

This document does not contain any technical data subject to EAR or ITAR

SERVICE ENGINEERING
Otis Elevator Company
Bloomfield, Connecticut USA

Unpublished Work—© Otis Elevator Co.; 2009

### **History**

### **Leaflet Description**

This SPL details spare parts for the Gen2® R2 3T sheave shaft load, permanent magnet (PM), AC three-phase motor gearless machine, type AAA20220AW.

#### **Leaflet Revisions**

Date Revised	Subject Matter Expert	Reason for Revision	
February 9, 2006	Kelly Martin	New SPL	
June 25, 2007	Scott Boulanger	Added new parts for NAA usage.	
June 25, 2009	Val Sheynkman	Corrected part number in ref. 8 on p. 8	

#### **Related Drawings**

Drawing No.	Title	Drawing No.	Title
AAA20220AW	AC Gearless Machine (PM) 3 Phase Motor (3.0T machine)		

#### **Related Documents**

Document ID	Title
Otis Doc. D533_DRS_3T	3T GeN2 Machine Requirements
Otis Doc. AAA20220AW_BD	GeN2 - 3T Machine Basic Data

#### Subject Matter Expert

Name	Department	
Scott Boulanger	Otis Engineering Center, Farmington (OECF)	

#### **About Spare Parts Leaflets...**

This document lists the lowest replaceable units (LRUs) for the standard version of the product. The LRUs are chosen by a team of Otis associates representing engineering and manufacturing.

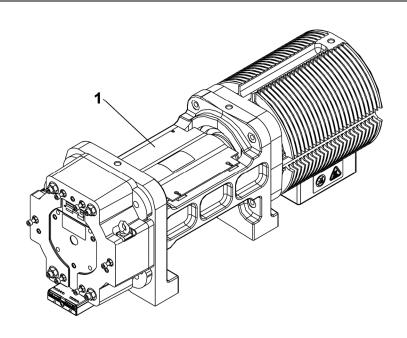
While goal of this document is to make parts identification as easy as possible, the document cannot be all-inclusive. Elevator and escalator contracts classified as "special" or "custom" are not addressed here. For such contracts, please refer to specified information, the contract folder, TIPs, Field Education Articles, Construction Letters, etc. for further information.

If you have any suggestions about this document, please contact the subject matter expert listed on this page.

Page 2	June 25, 2009
rage Z	Julie 25, 2005

# **EN81 3T Machine Assembly**

### 06-AAA20220AW

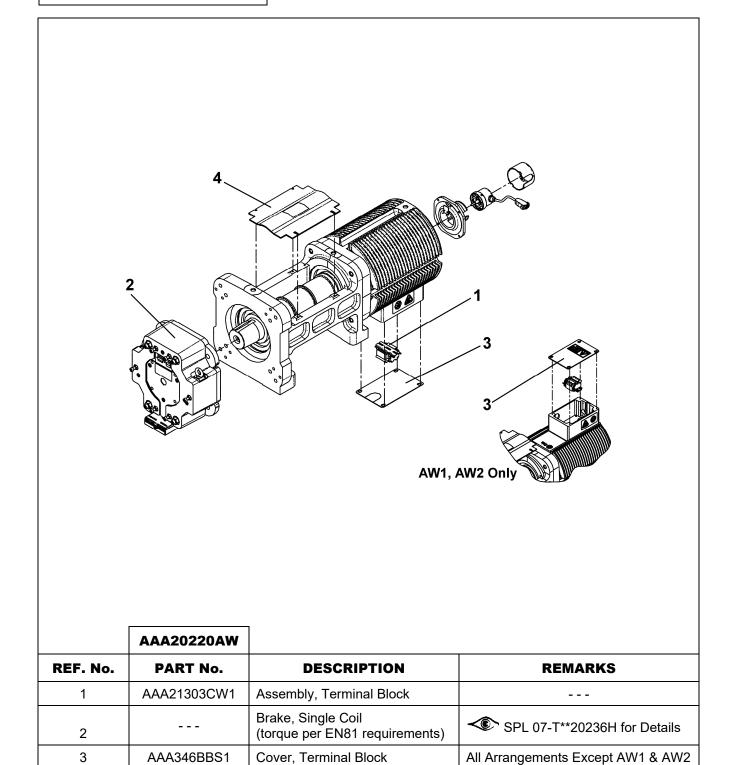


Machine Assembly, Gen2 3T (EN81)

3-Phase, AC Permanent Magnet Gearless Machine with CEN EN81-Compliant Brake

	AAA20220AW					
REF. No.	PART No.	DUTY (kg)	SPEED (m/s)	COUNTRY / REGION	APPLICATION	REMARKS
	AAA20220AW1		1.0			10 V Two-Channel
	AAA20220AW2	1000-1275	1.75	Korea		Incremental Encoder w/8.5 m Cable (A_A633Z23)
	AAA20220AW11	1600	1.0	Gien	3T (non- regenerative system) 340 V Minimum	5 V Two-Channel Incremental Encoder w/6 m Cable (A_A633Z26)
	AAA20220AW31		1.0			10 V Two-Channel
1	AAA20220AW32	1000-1275	1.75	EN/Asia (except Japan, Korea, Gien)		Incremental Encoder w/6 m Cable (A_A633Z21)
	AAA20220AW71		1.0			5 V Two-Channel
	AAA20220AW72	1000-1275	1.75	Japan	3T (regenerative system)	Incremental Encoder w/6 m Cable (A_A633AG2)
	AAA20220AW81		1.0			5 V Two-Channel
	AAA20220AW82	1000-1275	1.75	EN/Asia (except Japan, Korea, Gien)	300 V WIITHITHUTH	Incremental Encoder w/6 m Cable (A_A633Z24)

### 3T Machine Components <EN81>



Cover, Terminal Block

Cover, Sheave

(Continued on next page)

Dogg 4	I 2E 2000
Page 4	June 25, 2009

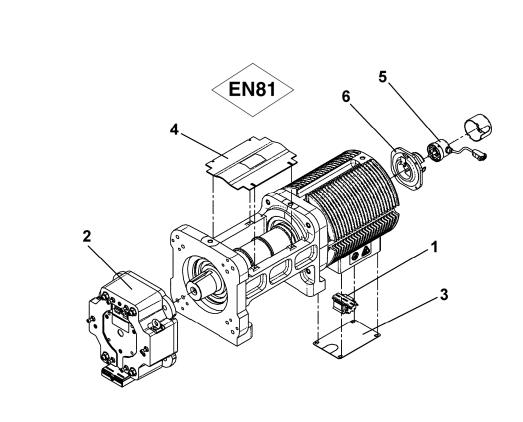
AAA346BBS2

AAA384AMQ1

AW1 and AW2 (Korea)

# 3T Machine Components <EN81>

### 06-AAA20220AW

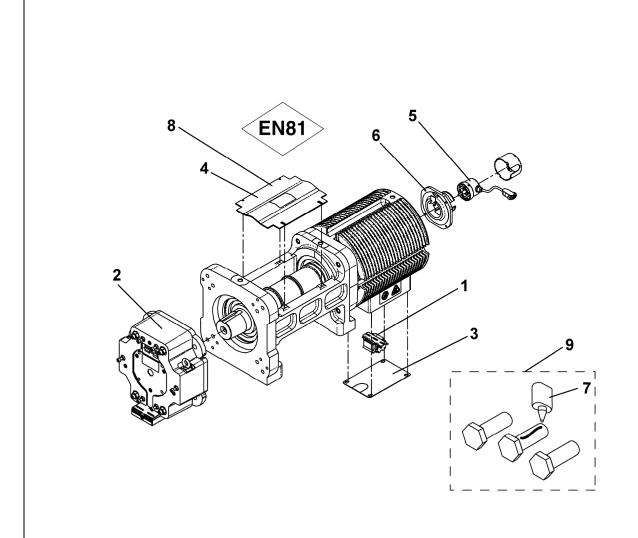


	AAA20220AW			
REF. No.	PART No.	DESCRIPTION W→ AAA20220AW ARRANGEMENTS		
	AAA633Z1	Encoder, Main, 10 V Incremental, 2 Channel, 6.0 m cable with Mounting Hardware and Allen Wrenches	31, 32	
5	AAA633Z3	Encoder, Main, 10 V Incremental, 2 Channel, 8.5 with Mounting Hardware and Allen Wrenches	1, 2	
	AAA633Z4	Encoder, Main, 5 V Incremental, 2 Channel, 6 m cable with Mounting Hardware and Allen Wrenches	61, 81 , 82	
	AAA633Z6	Encoder, Main, 5 V Incremental, 2 Channel, 6.0 m cable with Mounting Hardware and Allen Wrenches	11	
	AAA633AG2	Encoder, Main, 5V Incremental, 2 Channel, 6.0 m cable with Mounting Hardware and Allen Wrenches	71, 72	
6	AAA20220R1	Kit, Rescue Sensor Encoder All Replacement, Hall Effect		

(Continued on next page)

June 2	25, 2009	Page 5
--------	----------	--------

# **3T Machine Components <EN81>**

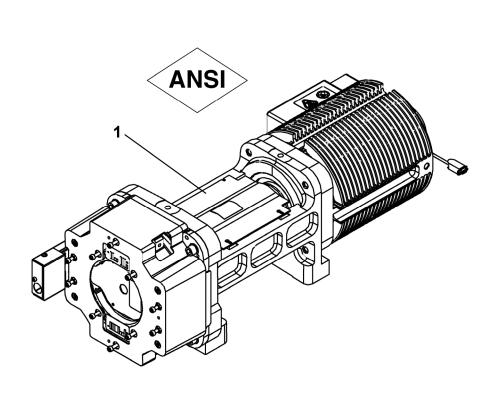


	AAA20220AW		
REF. No.	PART No.	DESCRIPTION	REMARKS
7	AAA180JB1	Glue, Loctite <sup>®</sup> 243 Threadlocker, 10ml Bottle	
8	AAA384AHX1	Guard, Sheave	
9	AAA27076AJ3	Kit, Hardware, Including (3) M20 x 55 Hex Head Screws, (1) Ref. 7	Torque to 120 Nm

Page 6	June 25, 2009

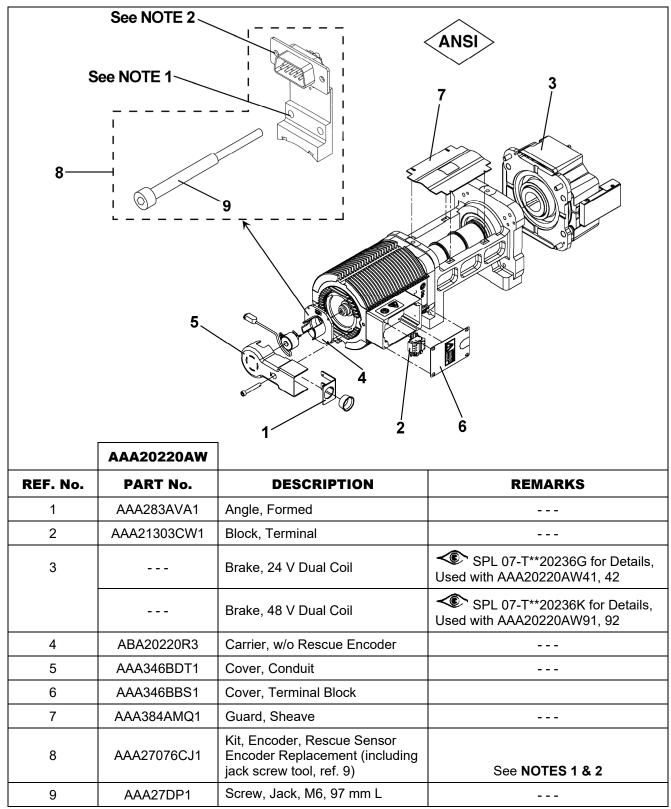
# **ANSI 3T Machine Assembly**

### 06-AAA20220AW



	AAA20220AW					
REF. No.	PART No.	DUTY (kg)	SPEED (m/s)	COUNTRY / REGION	APPLICATION	REMARKS
	AAA20220AW41 AAA20220AW42	1362/1588 1134	1.02		3T (non-regenerative system) 340 V Minimum	SSW 24V Dual- Coil Brake, 10 V Two-Channel Incremental Encoder with 8.5 m Cable (A_A633Z23)
1	AAA20220AW91 AAA20220AW92	1362/1588 1134	1.02	NAA	3T (regenerative system) 500 V Minimum	SSW 48V Dual- Coil Brake, 5 V Two-Channel Rationalized Encoder with 6 m Cable (A_A633Z21)

### **ANSI 3T Machine Components**



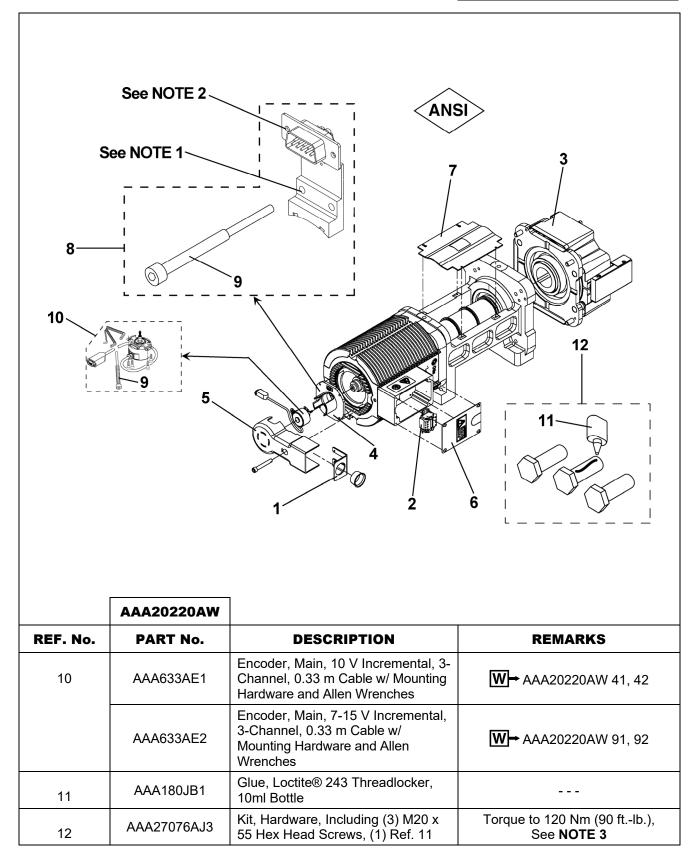
**NOTE 1:** Must secure jack screw with Loctite 243 and torque to 0.41-0.51 Nm (58-72 in. oz.). **NOTE 2:** Must secure jack screw with Loctite 243 and torque to 0.34-0.46 Nm (3-4 in. lb.).

#### (Continued on next page)

Page 8	June 25, 2009
--------	---------------

### **ANSI 3T Machine Components**

#### 06-AAA20220AW



NOTE 3: Mounting hardware for new machines.

June 25, 2	2009	Page 9