Gen2[™] 5T AC Permanent Magnet Gearless Machine: EN81-Compliant

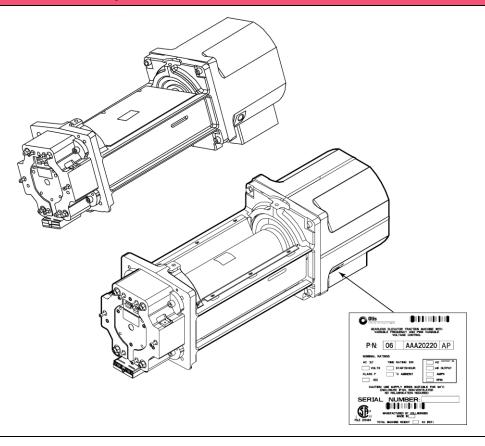
(Extended Duty & Next Generation High Rise)

Spare Parts Leaflet 06-AAA20220AP

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OBSOLESCENCE NOTICE

The product covered in this SPL has been designated as obsolete and is no longer supported. See TIP 32.2-1, Obsolete Components, for potential upgrade. Replacement lower level parts listed within and unique to this design are not being restocked when depleted. Some of these parts, depending on availability and other factors, may be quoted through Customer Service, but most will have extended lead times and increased cost due to low volume production.



OTIS

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

SERVICE ENGINEERING
Otis Elevator Company
Bloomfield, Connecticut USA

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06-AAA20220AP

History

Leaflet Description

This SPL details spare parts for the Gen2[®] R2 five-ton (5T) sheave shaft load, extended duty, permanent magnet (PM) AC three-phase motor gearless machine for European (EN81) and Asian markets.

Leaflet Revisions

Date Revised	Subject Matter Expert	Reason for Revision		
March 17, 2003	Amer Aziz	New SPL		
April 30, 2004	James Draper	Updated SPL number in reference 2, on page 4		
March 10, 2005	Ben Watson	Changed parts list on page 3-5; updated illustrations.		
March 25, 2006	Ben Watson	Updated parts list on pages 3-4.		
April 10, 2007	Scott Boulanger	Update views to show new sheave guard and p. 5 p/n		
November 20, 2008	David Torlai	Update p. 6 cover guards		
February 1, 2023	Juan Murillo	Added Obsolescence note on cover		

Related Drawings

Drawing No.	Title	Drawing No.	Title
AAA20220AP	AC Gearless Machine (PM) 3 Phase Motor (5.0T EN81)	ABA20220AP	AC Gearless Machine (PM) 3 Phase Motor (5.0T EN81)
AAA633Z	Encoder (2-channel)		

Related Documents

Document ID	Title		
Otis Doc. 54694	Functional Requirements for GeN2 R2 (extended duties) PM AC Gearless Machine		
Otis Doc. 55763	GeN2—5T Machine Basic Data		
SPL 07-TBA20236H	5T EN Brake for Gen2 System		

Subject Matter Expert

Name	Department	
David Torlai	Otis Engineering Center, Farmington (OECF)	

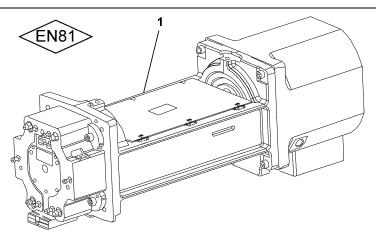
About Spare Parts Leaflets...

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.

EN81 Machine Assembly

06-AAA20220AP



Machine Assembly, Gen2 5T (EN81)

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

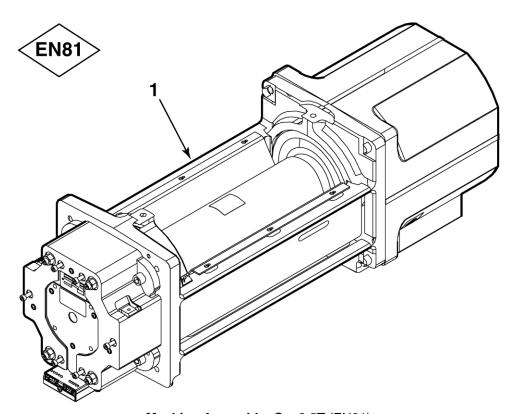
AAA20220AP
ABA20220AP

	ABA20220AP					
REF. NO.	PART NO.	DUTY (kg)	SPEED (m/s)	COUNTRY	APPLICATION	REMARKS
	AAA20220AP2 AAA20220AP1 ABA20220AP2 ABA20220AP1	1150– 1600		EN81	5TA, Gen2, ED (Non-REGEN)	10 V Two-Channel Incremental Encoder with 6.0 m Cable (A_A633Z1)
	AAA20220AP5 ABA20220AP4	1350- 1600	1.0–1.75	Korea		10 V Two-Channel Incremental Encoder with 8.5 m Cable (A_A633Z3)
	ABA20220AP5	1150				
	AAA20220AP12 AAA20220AP11 ABA20220AP12 ABA20220AP11	1800– 2000		EN81/ Asia Except Japan	5TB, Gen2, ED (Non-REGEN)	10 V Two-Channel Incremental Encoder with 6.0
1	AAA20220AP21 ABA20220AP21					m Cable (A_A633Z1)
	AAA20220AP25 AAA20220AP26 ABA20220AP25 ABA20220AP26	1275	2.0–2.75	EN81 (Gien CLC)	5TC, NGH, R1 (Non-REGEN)	Three-Channel Incremental Encoder with 0.3 m Cable (A_A633AE1)
	AAA20220AP41 ABA20220AP41	1600		EN81/ Asia Except Japan		10 V Two-Channel Incremental Encoder
	AAA20220AP46 AAA20220AP47	1600	2.0–2.5	EN81	5TD, NGH, R1 (Non-REGEN)	Three-Channel Incremental Encoder with 0.3 m Cable
	ABA20220AP46 ABA20220AP47	1000	2.0-2.0	(Gien CLC)		(A_A633AE1)
	ABA20220AP48			Korea		10 V Two-Channel Incremental Encoder with 6.0 m Cable (A_A633Z1)

NOTE: Data plates on some machines have been imprinted with part no. that indicates motor w/o brake (e.g., AAA20220AP46). The field replacement assembly should be the complete motor with brake (e.g., AAA20220AP47), shown as a substitution for each of these identities / applications.

06-AAA20220AP

EN81 Machine Assembly



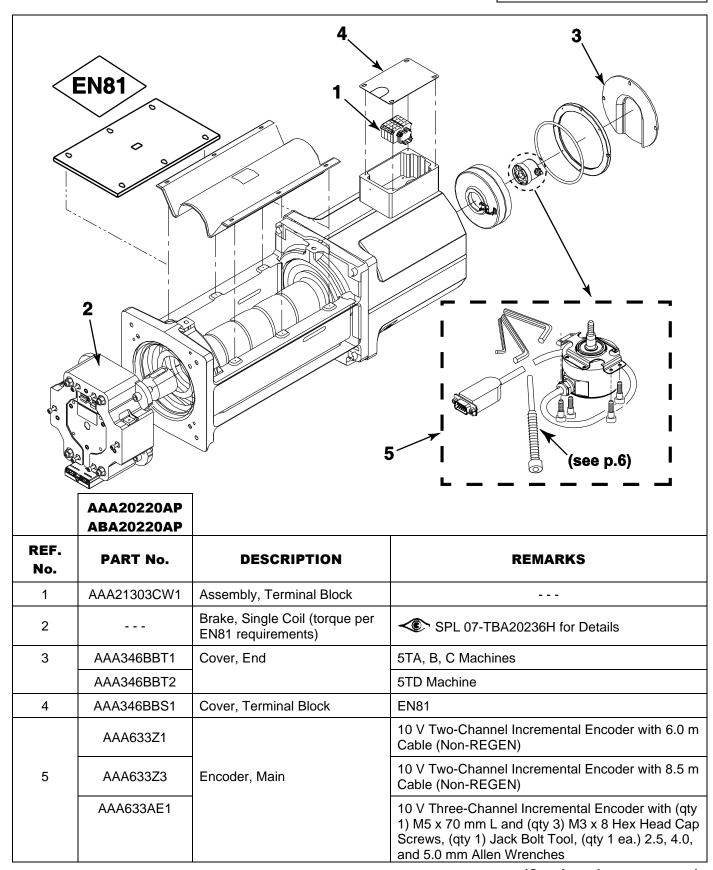
Machine Assembly, Gen2 5T (EN81) 3-Phase, AC Permanent Magnet Gearless Machine with CEN EN81 Compliant Brake

	AAA20220AP ABA20220AP					
REF. NO.	PART NO.	DUTY (kg)	SPEED (m/s)	COUNTRY	APPLICATION	REMARKS
	AAA20220AP22 ABA20220AP22	1275	2.0–2.5	Japan	5TC, NGH, R1 (Non-REGEN)	10 V Two-Channel Incremental Encoder with 6.0 m Cable (A_A633Z1)
1	ABA20220AP27	600 (1:1 roping)		Japan	5TC, NGH, R1 (Non-REGEN)	
	AAA20220AP42			Japan	5TD NGH R1	with 6.0 m Cable (A_A633Z1)
	ABA20220AP42		-		(Non-REGEN)	
	AAA20220AP43	850				
	ABA20220AP43	(1:1 roping)	2.0–2.5			

NOTE: Data plates on some machines have been imprinted with part no. that indicates motor w/o brake (e.g., AAA20220AP46). The field replacement assembly should be the complete motor with brake (e.g., AAA20220AP47), shown as a substitution for each of these identities / applications.

Gen2™ 5T Machine Components

06-AAA20220AP

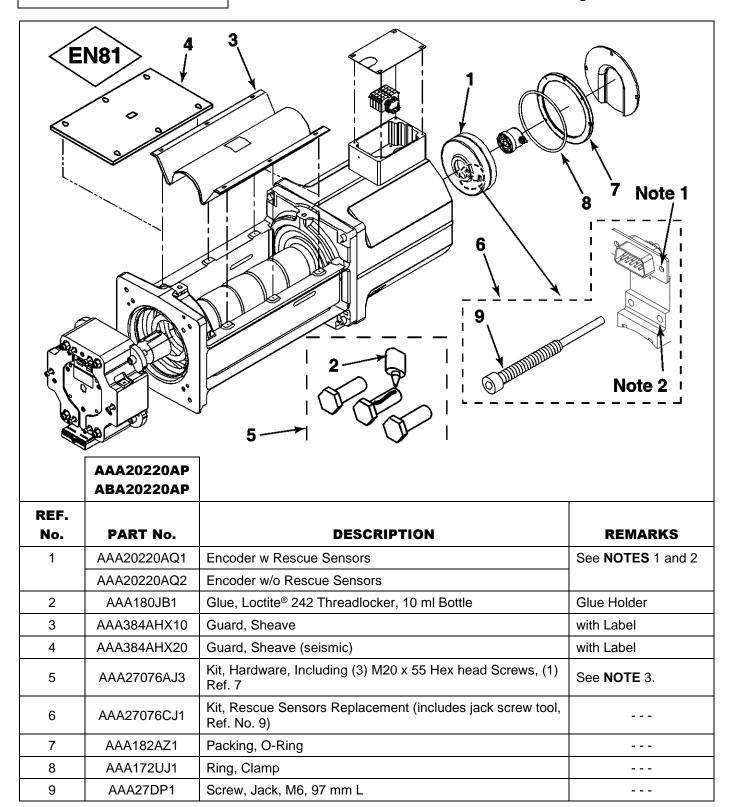


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Gen2™ 5T Machine Components



NOTES:

- 1. Must secure mounting screws (not shown) with Loctite 242 and torque to 0.41–0.51 Nm (58–72 in. oz.).
- 2. **Must** secure mounting screws (not shown) with Loctite 242 and torque to 0.34–0.46 Nm (3–4 in. lb.).
- 3. Torque to 120 Nm (90 ft.-lb.).