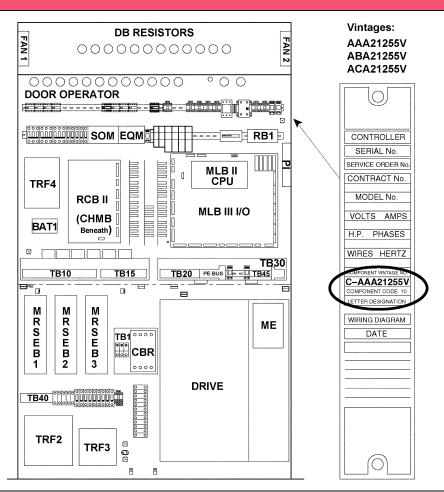
Controller, Elevonic[®] 411M-MS

Spare Parts Leaflet 10-AAA21255V

September 21, 2022 / Page 1 of 38

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 will be reviewed for obsolescence.



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Unpublished Work—© Otis Elevator Co.; 2022

History

Leaflet Description

This leaflet lists the lowest replaceable parts for the Elevonic® E411M-MS (Modernization Medium Speed) controller.

The leaflet layout is arranged by component name, alphabetically, except for the printed circuit boards. These appear before other components and are shown with any associated sub-level components.

The E411M-MS controller supports many different types of door operators. Note that some components of a particular door operator interface are physically located outside of the controller, usually on the operator motor.

Leaflet Revisions

Date Revised	Subject Matter Expert	Reason for Revision
May 4, 2005	John Doane	Updated all pages of SPL to the latest manufacturing configuration.
December 5, 2005	John Doane	Updated pages 1, 4, 8-9, 11, and 18-19.
January 15, 2007	Jason Philhower	Updated AAA638AE4 to AAA638AE9.
October 22, 2008	Sohaib Shaikh	Corrected part number in ref. 14 on p. 24
October 12, 2009	Asif Hassan	Added a NOTE in ref. 5 on. 15
January 27, 2010	Asif Hassan	Added ABA parts in ref. 2 on p. 21
June 30, 2010	Ali Bozorgzadeh	Added a NOTE on p. 18
August 18, 2010	Asif Hassan	Added NOTE 2 on page 6 and NOTE 3 on page 7 to reflect the daughter board change.
April 13, 2011	Ali Bozorgzadeh	Corrected ref. 8 on p. 11
February 17, 2016	Ali Bozorgzadeh	Added p/n AA21305DJ1 and NOTE 2 on p. 8
January 16, 2019	Ali Bozorgzadeh	Corrected information on p. 11
September 21, 2022	Juan Murillo	Updated to include OBSOLESCENCE note on cover

Related Drawings

Drawing No.	Title	Drawing No.	Title	
ACA21255V	Assembly & Arrangement, E411MMS Controller	AAA21255W	E411MMS Door Operator Interface Assembly	
ACA21255X	Wiring Diagram	AAA21255T	E411MMS Harness Controller	

(Continued on next page)

History (continued)

10-AAA21255V

Related Documents

Document ID	Title
SPL 10-AAA21255J	DC Direct Drive
SPL 10-AAA21290AK	Variable Frequency (OVF 30) Drives, 70 A–210 A
SPL 10-AAA21700Q	REM 5
SPL 10-AAA447AC	PC Board Connectors
TIP 1.1.3.1-90	Wiring Changes When Replacing a Siemens 5NO-5NC Relay
TIP 1.1.15.0-23	MLB III Motion Control Board
TIP 1.1.15.2-4	Speed Check Hardware Revision on MLB III Board

Subject Matter Expert

Name	Department
Ali Bozorgzadeh	OSC Service Engineering

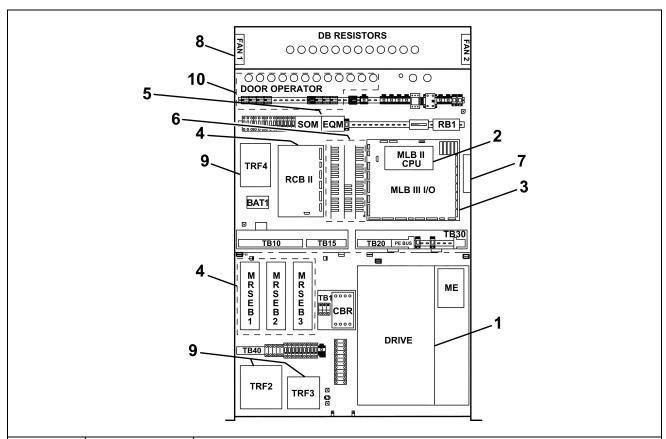
About Spare Parts Leaflets...

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.

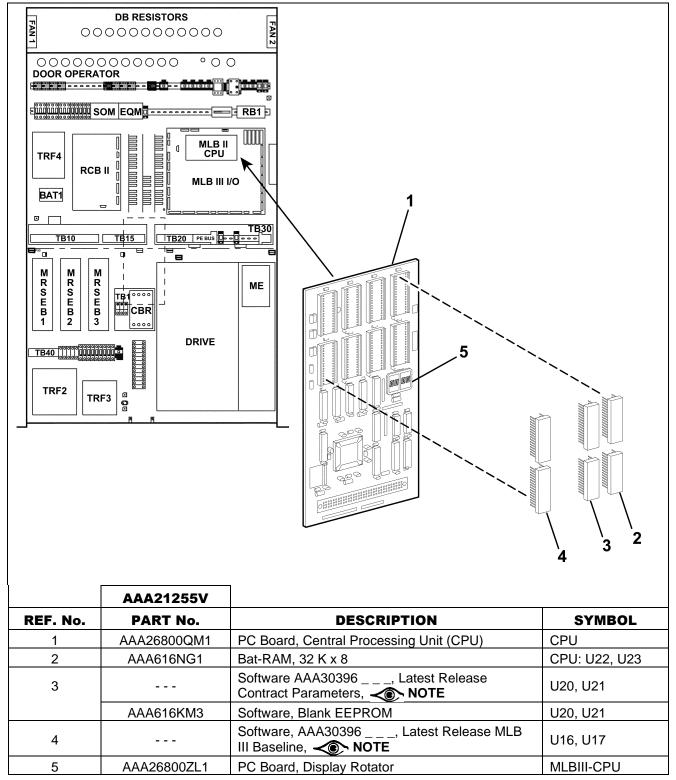
Table of Contents



REF. No.	PAGE No.	DESCRIPTION
1		Drive, ACVF, SPL 10-AAA21290AK
		Drive, DC-DD, SPL 10-AAA21255J
2	5	Motion Logic Board, MLB-CPU, Bat RAM, Software, Display
3	6, 7	Motion Logic Board III (fuses F1–F5), PAL
4	8	RCB II Software, Chime PC Board
5	9	Seismic Module, Earthquake Module, Line Terminator, Resistor Interface
6	10	32 Channel I/O, I/O Module, MESEB
7	11	Position Indicator Assembly
	12	Battery, Capacitor, CB4, Clock, Counter, Diode, BRS
	13	Circuit Breakers
8	14	Resistors – Dynamic Braking
	15	Connectors
	16	Fuses
	17	Relays
	18	Overload Relays
	19	Relays-Contactor, Lug
	20	Resistors, Suppressors
	21	Terminal Blocks, Fuse Holders
9	22	Transformers
10	23–38	Door Control Apparatus

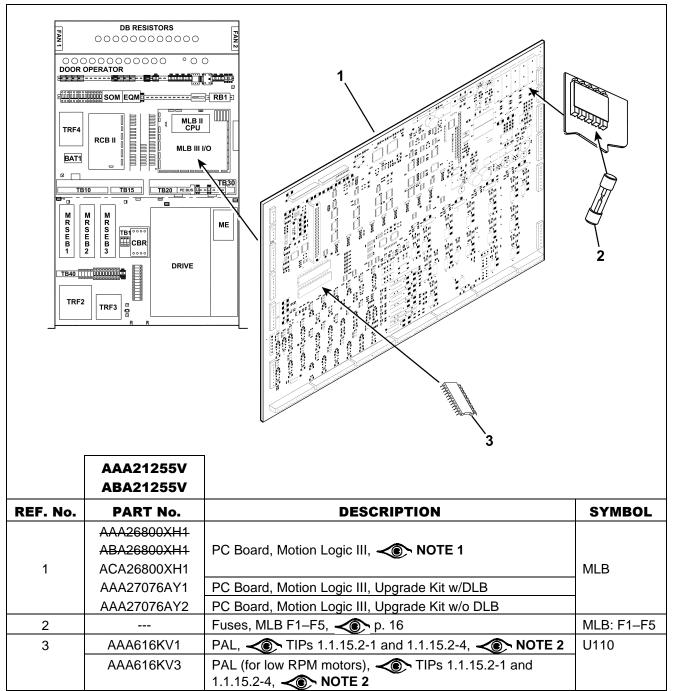
MLB-CPU PC Board

10-AAA21255V



NOTE: Contact your OSC customer service representative for latest revision.

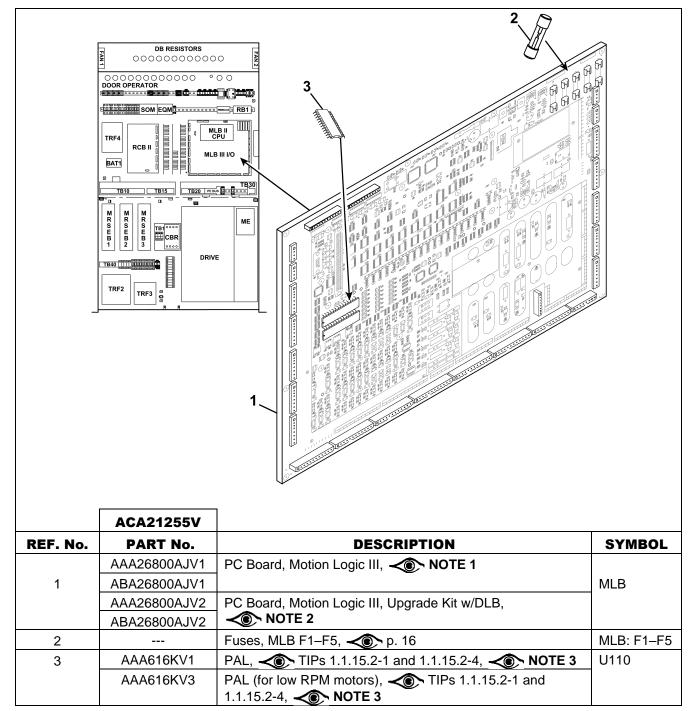
Type A _ A26800XH Motion Logic PC Board (MLB III)



NOTE 1: Production of p/n ACA26800XH1 is discontinued. Replacement of p/n ACA26800XH1 will be provided if one is available. If it is not available, the MLB III upgrade kit p/n AAA27076AY1 (with DLB switches) or p/n AAA27076AY2 (without DLB switches) will be furnished to upgrade to a ABA26800AJV Motion Logic PC Board.

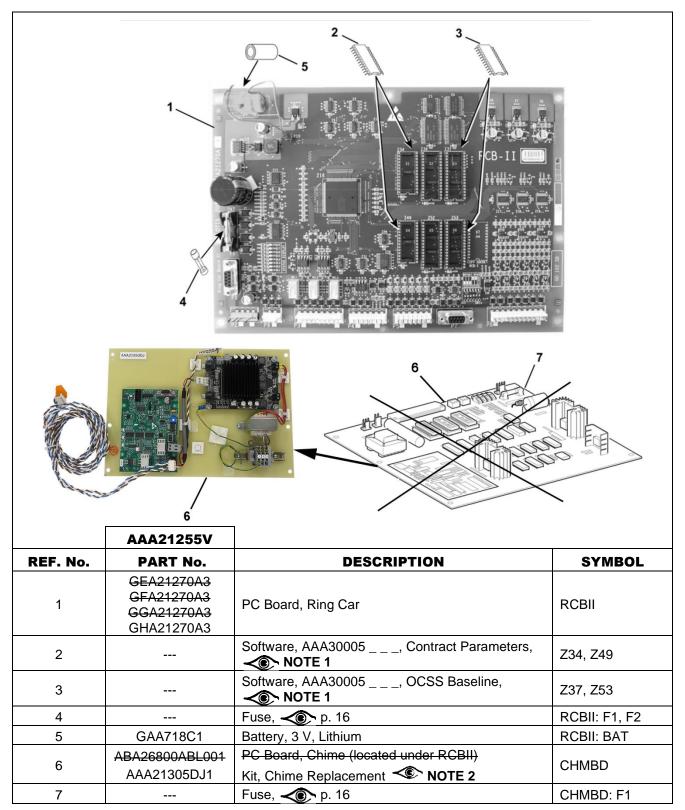
NOTE 2: AAA616KV1 and AAA616KV3 are obsolete and will be supplied until the current stock of these parts at OSC is exhausted. After that period, the MLB III board will need to be returned to OSC for installing AAA26800AVH1 daughter board.

Type AAA26800AJV Motion Logic PC Board (MLB III)



- **NOTE 1:** Production of p/n AAA26800AJV1 is discontinued. If p/n AAA26800AJV1 is not available, p/n ABA26800AJV1 will be provided.
- **NOTE 2:** Production of p/n AAA26800AJV2 is discontinued. If p/n AAA26800AJV2 is not available, p/n ABA26800AJV2 will be provided.
- **NOTE 3:** AAA616KV1 and AAA616KV3 are obsolete and will be supplied until the current stock of these parts at OSC is exhausted. After that period, the MLB III board will need to be returned to OSC for installing AAA26800AVH1 daughter board.

Ring Car & Chime PC Boards

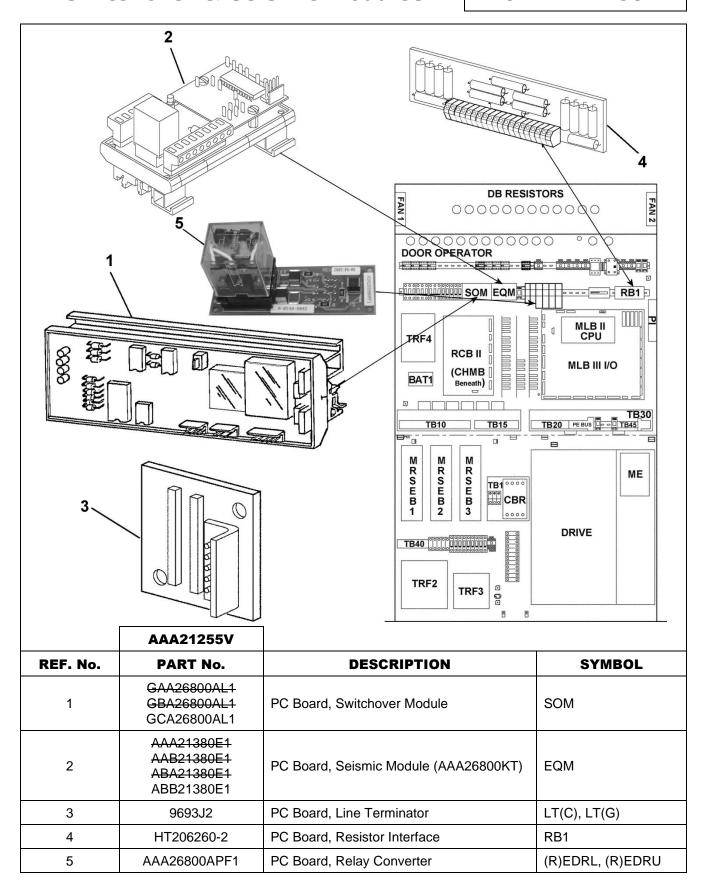


NOTE 1: Contact your OSC Customer Service Representative for the latest release.

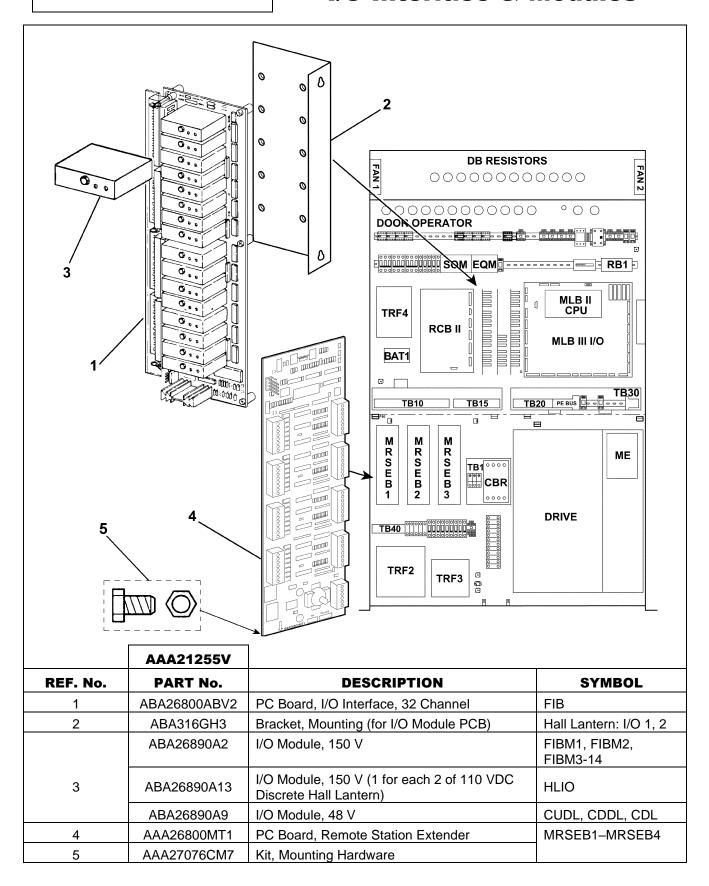
NOTE 2: TIP 4.5-8 to replace the obsolete ABA26800ABL chime board with the AAA21305DJ chime replacement kit.

Switchover & Seismic Modules

10-AAA21255V

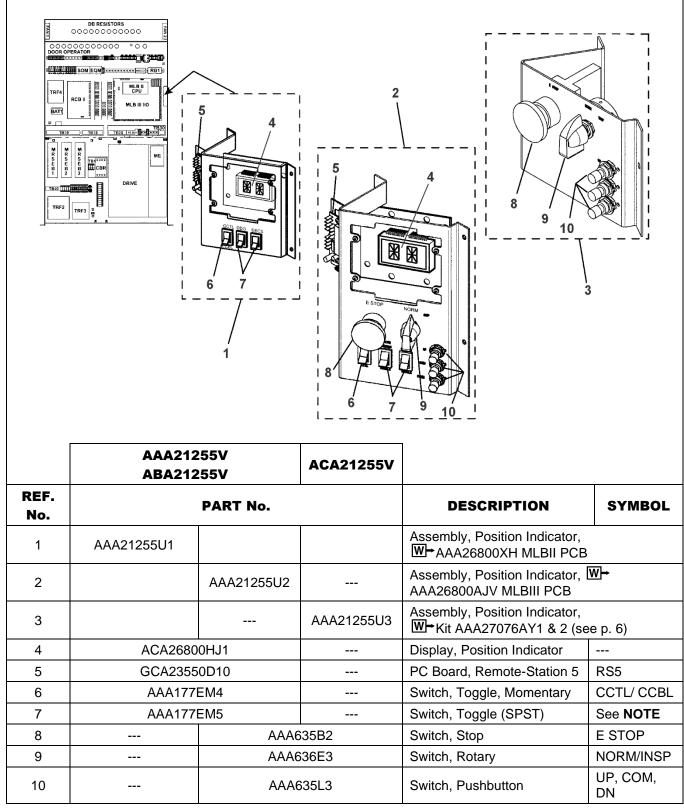


I/O Interface & Modules



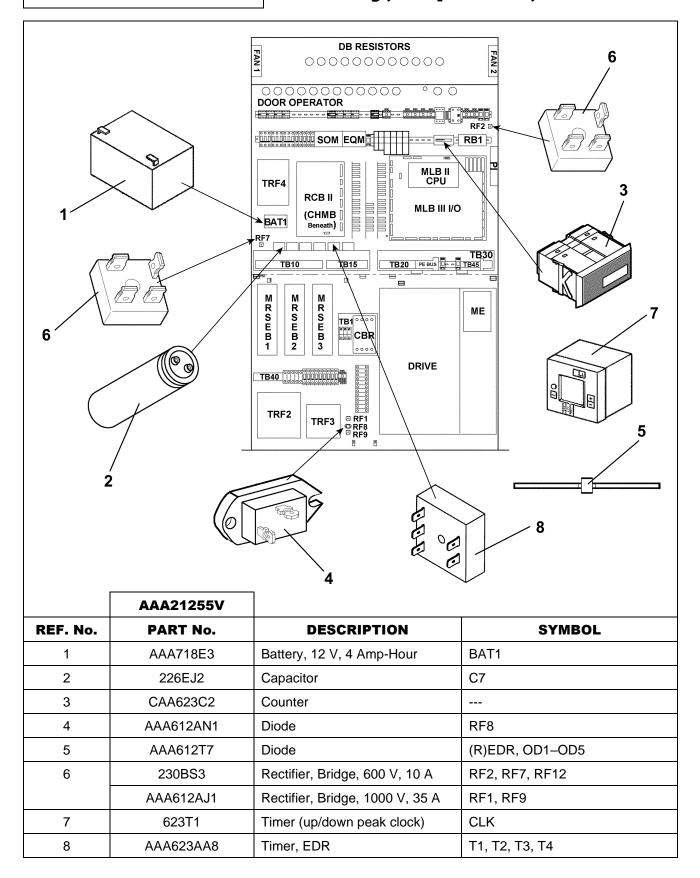
Position Indicator

10-AAA21255V



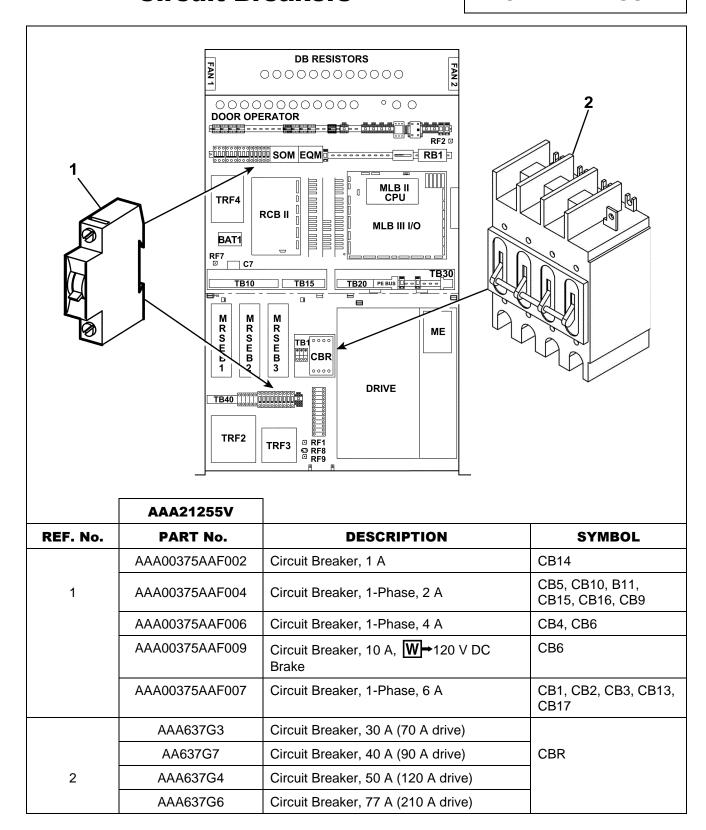
NOTE: Doors Disable/Enable (was DDO), Hall Calls Disable/Enable (was CHCS)

Battery, Capacitor, Rectifier

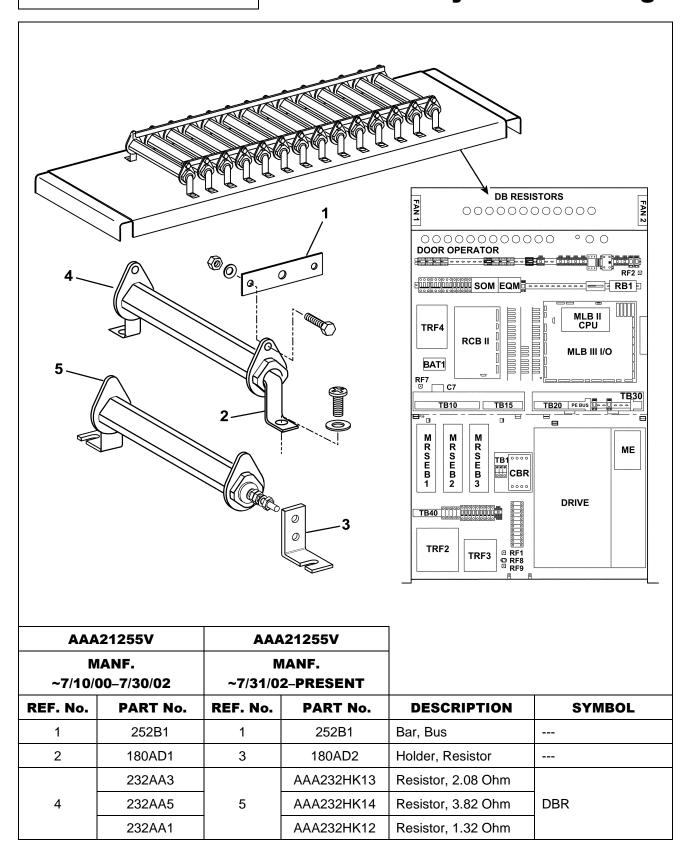


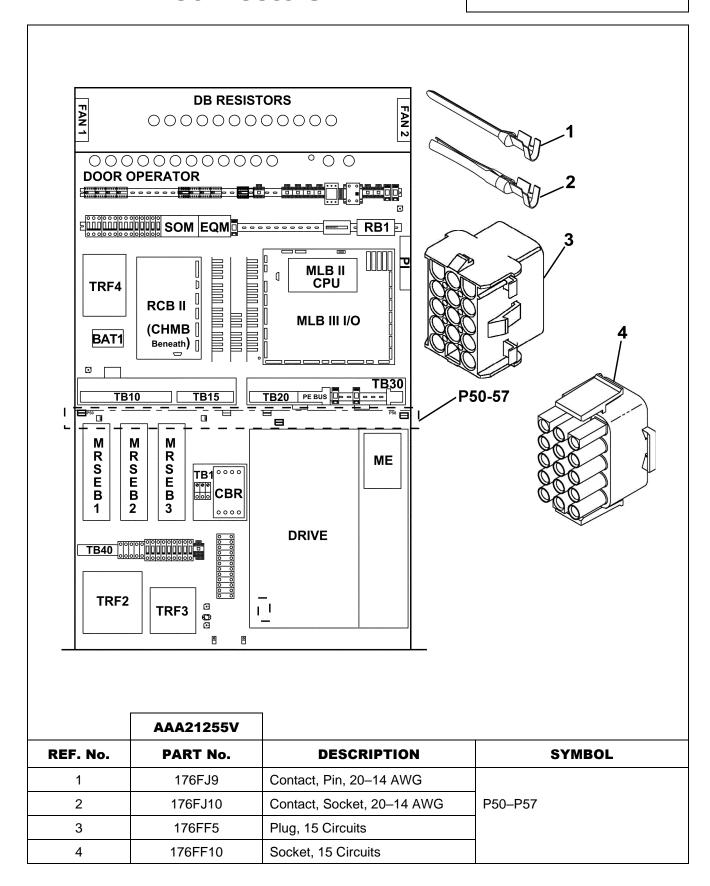
Circuit Breakers

10-AAA21255V

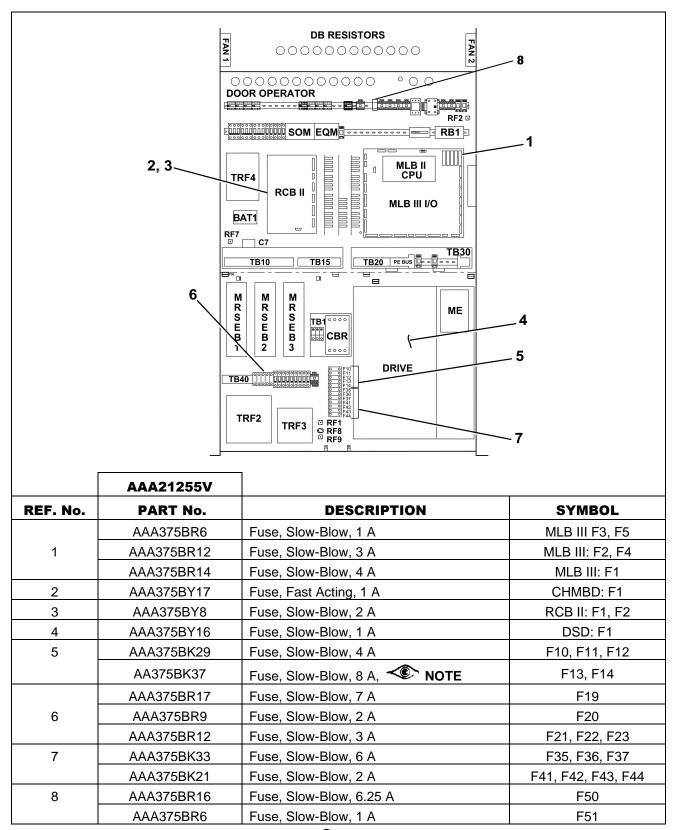


Resistors – Dynamic Braking





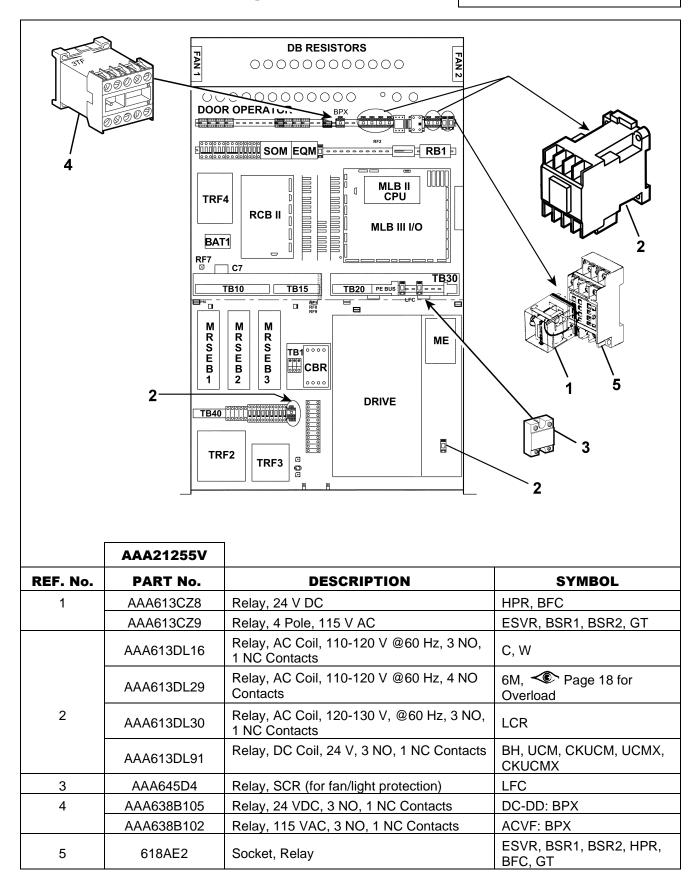
Fuses



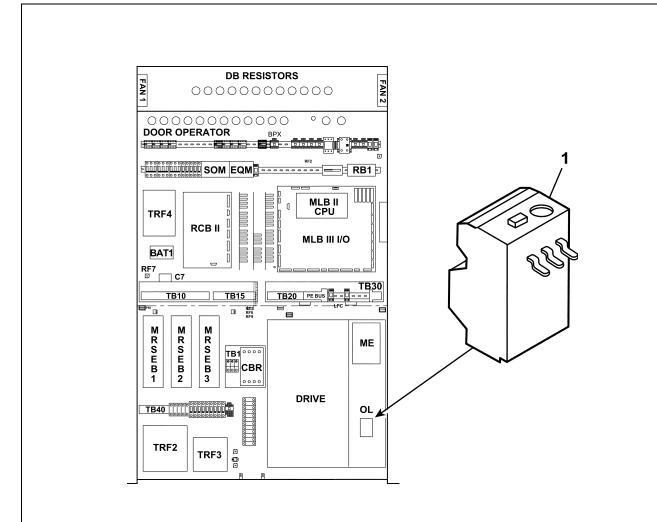
NOTE: This value applies to MVF controller only. SPL 10-AAA21799B for DC-MMS controller.

Relays

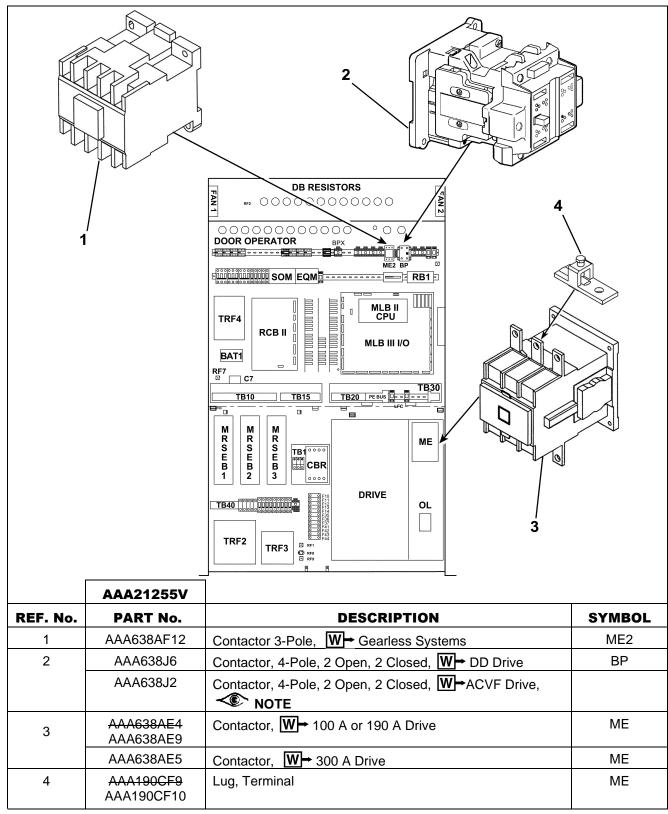
10-AAA21255V



Overload Relays

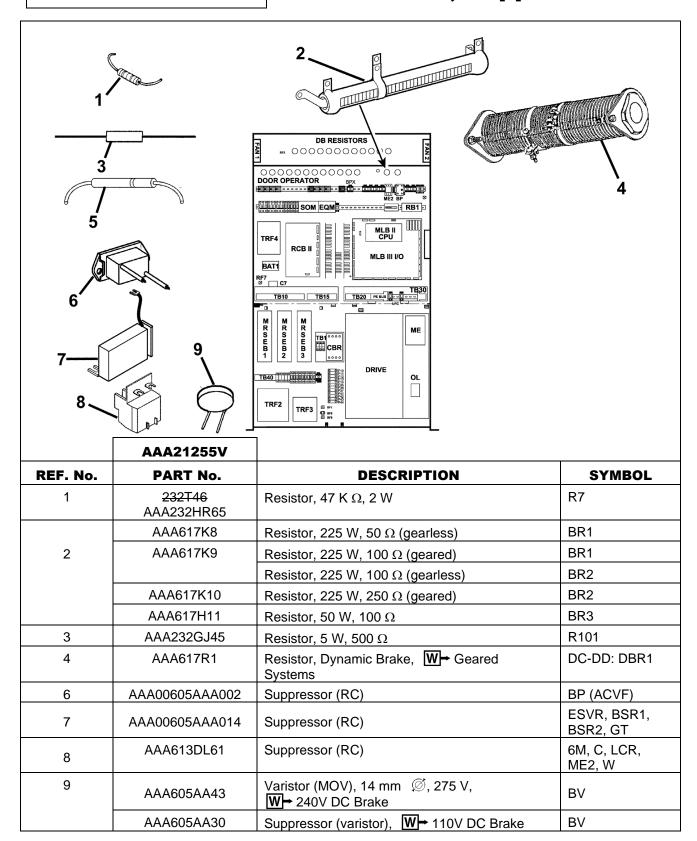


				AAA21255V
REF. No.	MACHINE TYPE	BLOWER VOLTAGE	RATED CURRENT (Amps)	PART No.
	139HT	120 VAC, 1 Phase	4.4	AAA660F8
	139HT	120 VAC, 1 Phase	5.6	AAA660F8
	155HT	120 VAC, 1 Phase	1.2	AAA660F3
	269HT	120 VAC, 1 Phase	1.6	AAA660F4
1	72	208 VAC, 3 Phase	2.4	AAA660F5
		220 VAC, 3 Phase	2.2	AAA660F5
		440 VAC, 3 Phase	1.2	AAA660F3
		460 VAC, 3 Phase	1.1	AAA660F3
		575 VAC, 3 Phase	0.9	AAA660F3



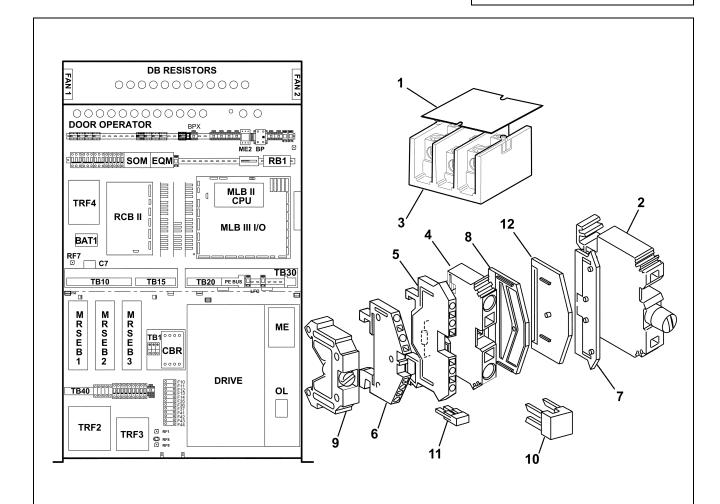
NOTE: Reliability issues have been reported with this part. Consider ordering p/n AAA27076EJ1. TIP 1.1.15.2-2, *BP Relay for E411M-VF*.

Resistors, Suppressors



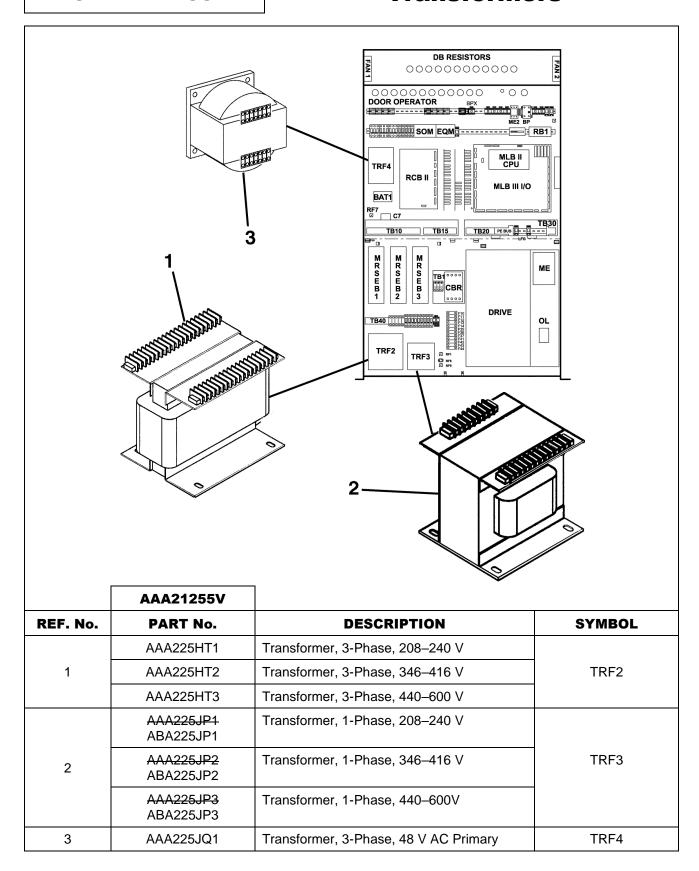
Terminal Blocks

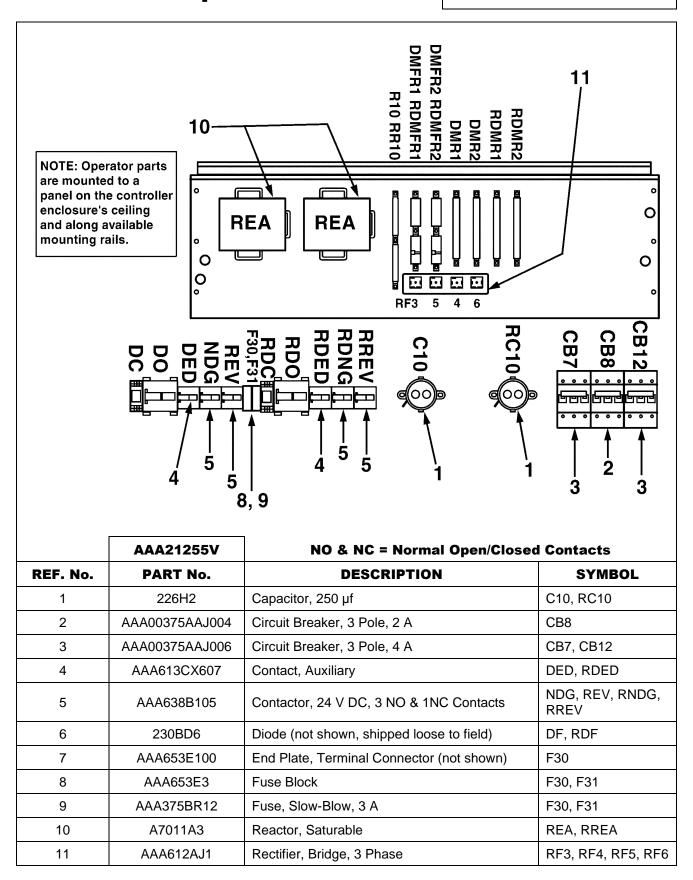
10-AAA21255V



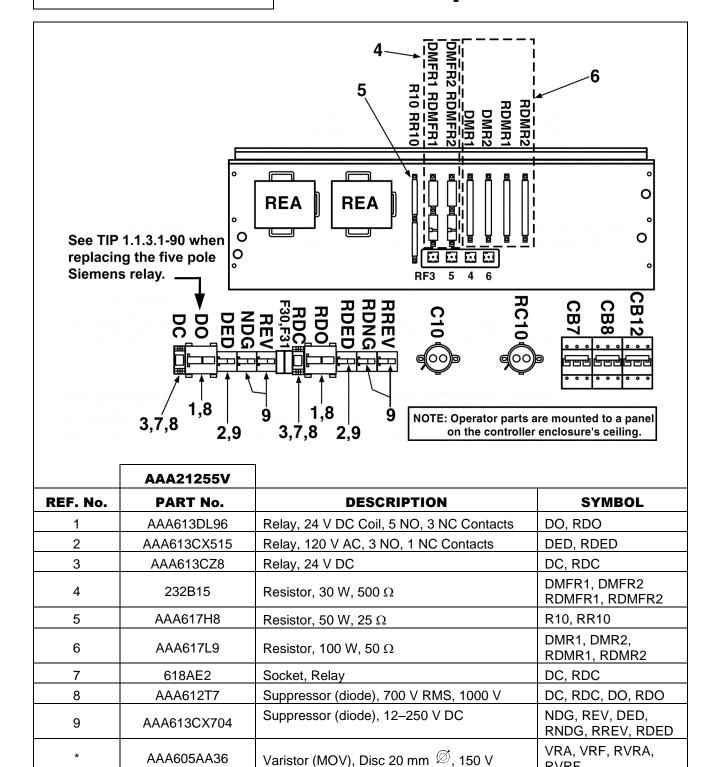
	AAA21255V		
REF. No.	PART No.	DESCRIPTION	SYMBOL
1	303DH4	Cover, Terminal Block	TB1
2	AAA653E1	Fuse Holder	
3	303DH17	Terminal Block	TB1
4	AAA303EP51	Terminal Block, 2 Entries, 24-8 AWG, 600 V, 35 A	TB3
5	AAA303EP36	Terminal Block, 4 Entries, 26-14 AWG, w/Diode	
6	AAA303EP1	Terminal Block, 4 Entries, 26-14 AWG, 600 V, 35 A	TB10, TB15, TB20, TB30
7	AAA303EP37	Terminal Block, End Plate	
8	AAA303EP3	Terminal Block, End Plate, 0.09 in. Thick	
9	AAA303EP105	Terminal Block, End Stop	
10	AAA303EP53	Terminal Block, Jumper	
11	AAA303EP48	Terminal Block, Jumper, 2 Pole	
12	AAA303EP4	Terminal Block, Separator	

Transformers





6970 Door Operator Interface



Suppressor (RC), 48-127 V AC

Varistor (MOV), Disc, 14 mm , 275 V

AAA605AA36

AAA00605AAA006

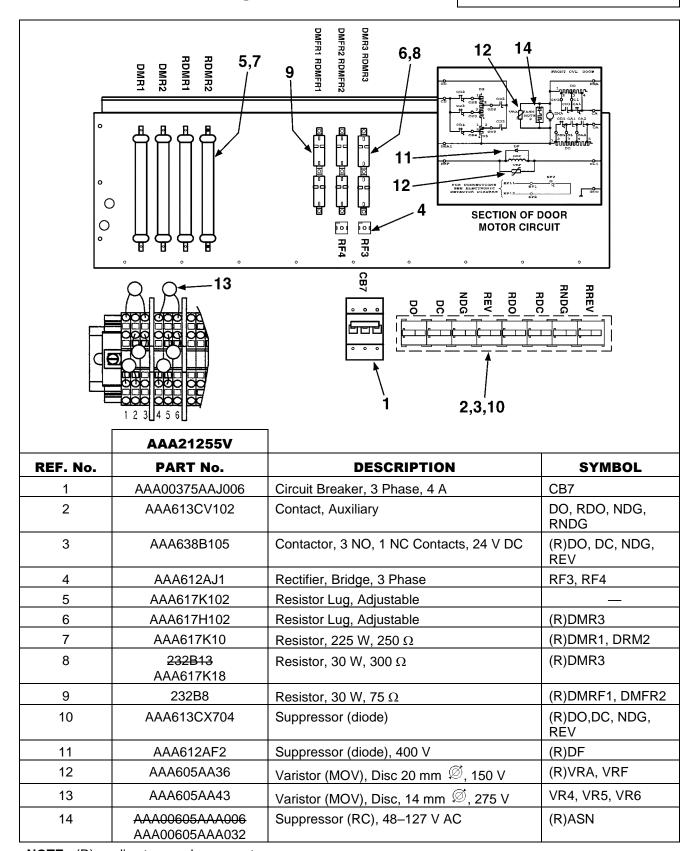
AAA00605AAA032 **AAA605AA43**

RVRF

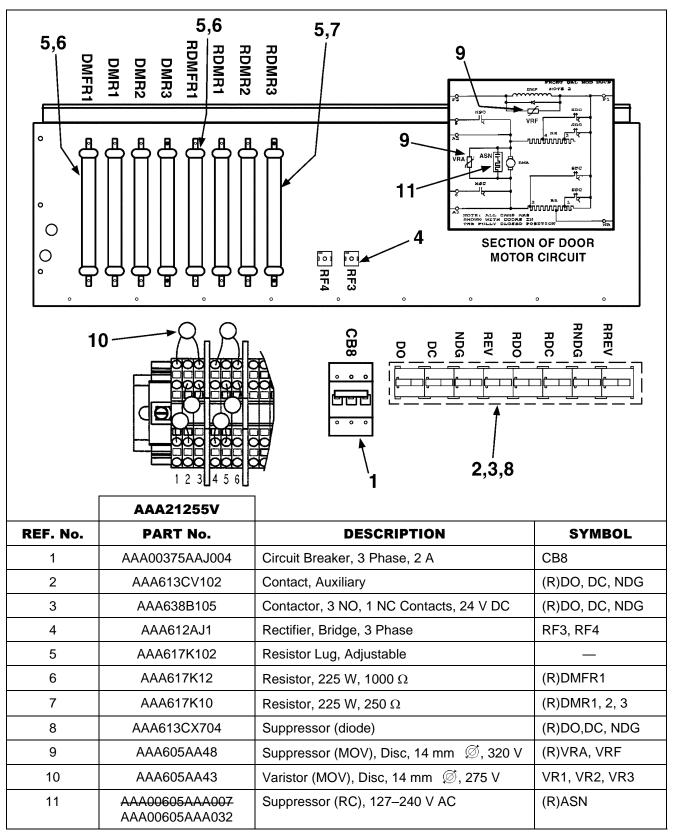
ASN, RASN

VR1-VR6

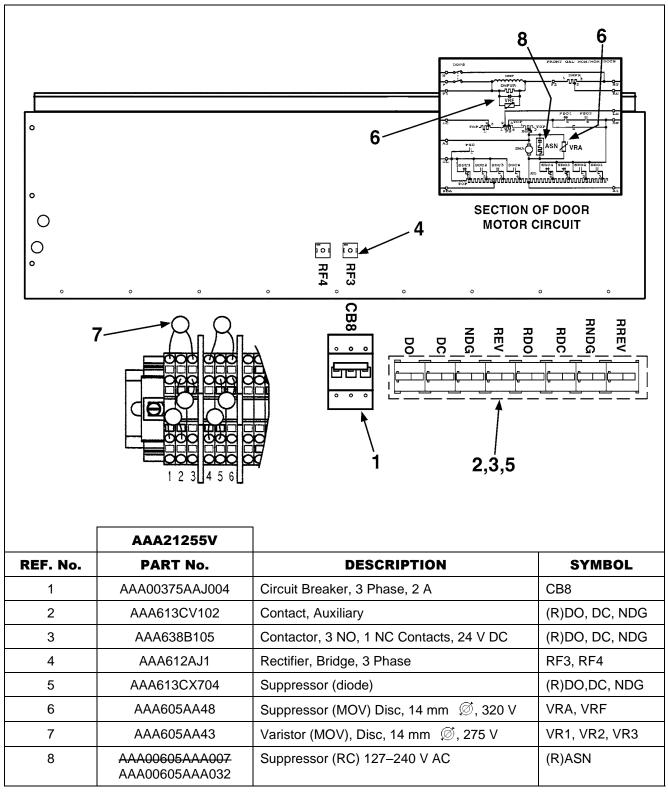
^{*} Parts not shown. Field installed during construction.



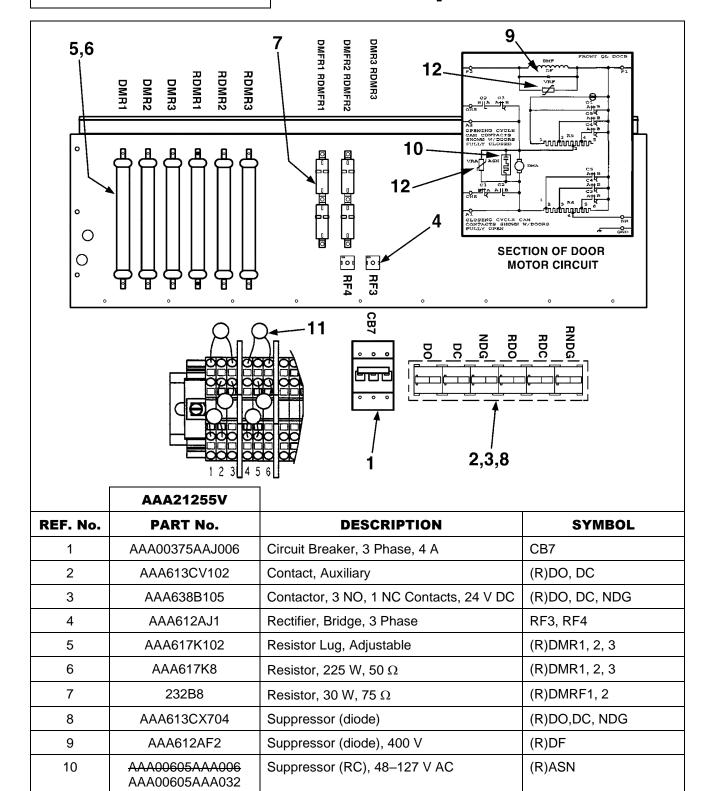
GAL-MOD Door Operator Interface



GAL MOM/MOH Door Operator Interface



QL Door Operator Interface



Varistor (MOV), Disc, 14 mm Ø, 275 V

Varistor (MOV), Disc 20 mm Ø, 150 V

NOTE: (R) applies to rear door operator.

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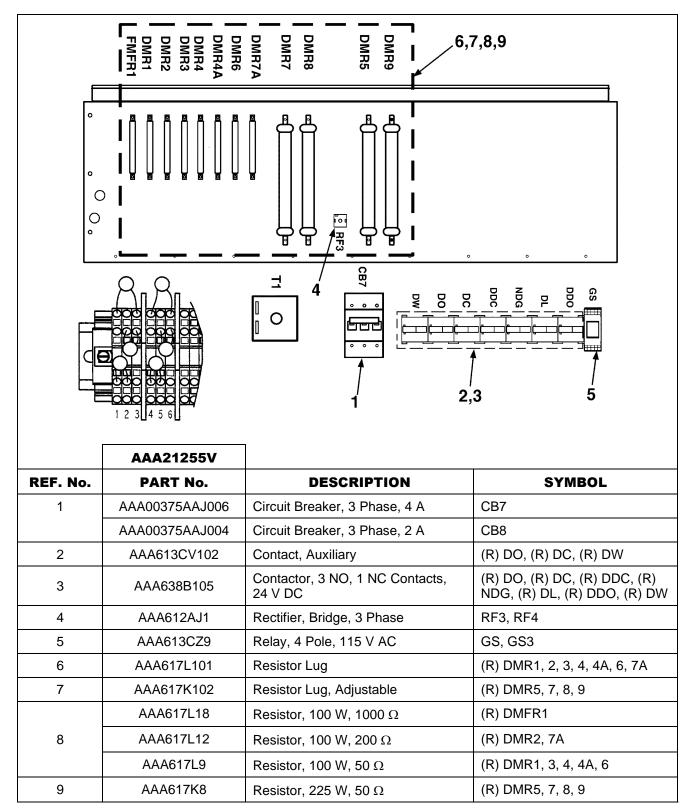
AAA605AA43

AAA605AA36

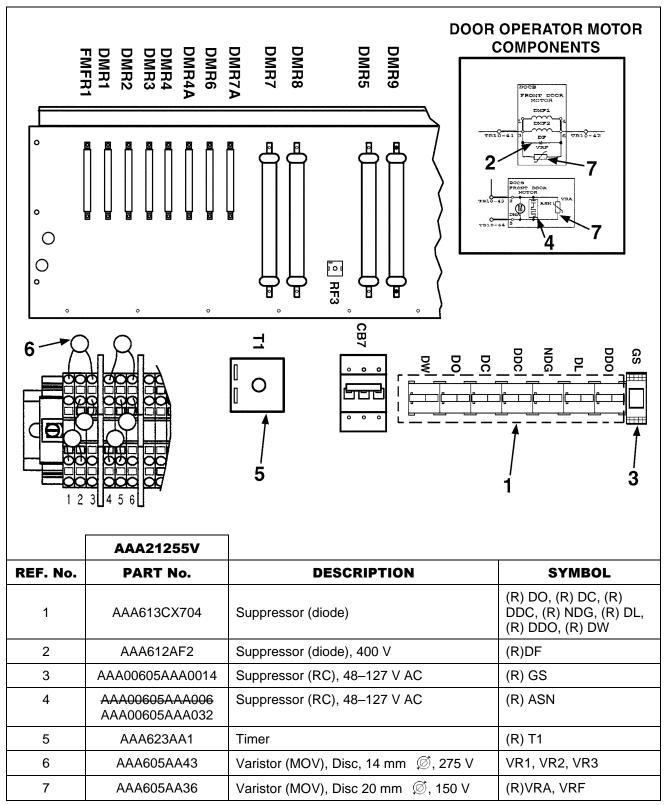
VR4, VR5, VR6

(R)VRA, VRF

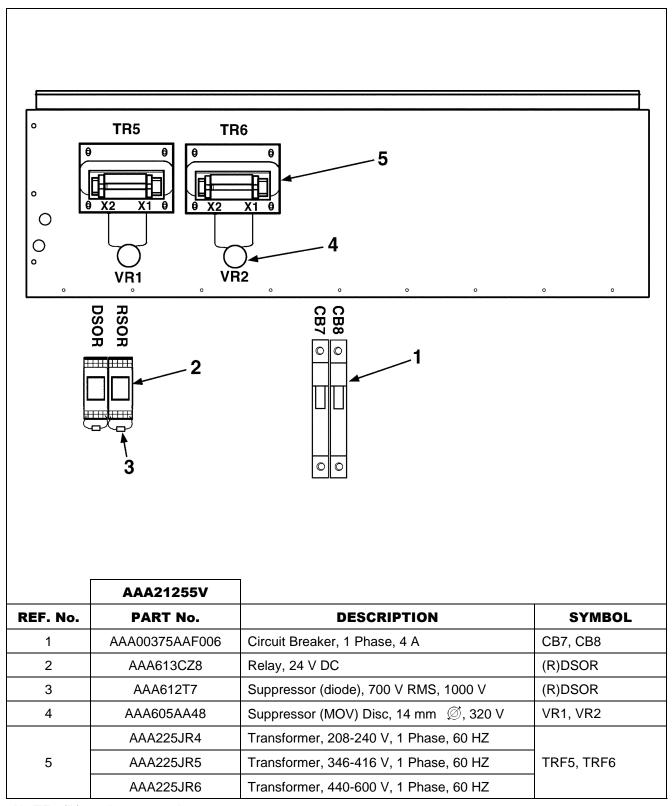
6970 Timed Resistance Door Operator Interface



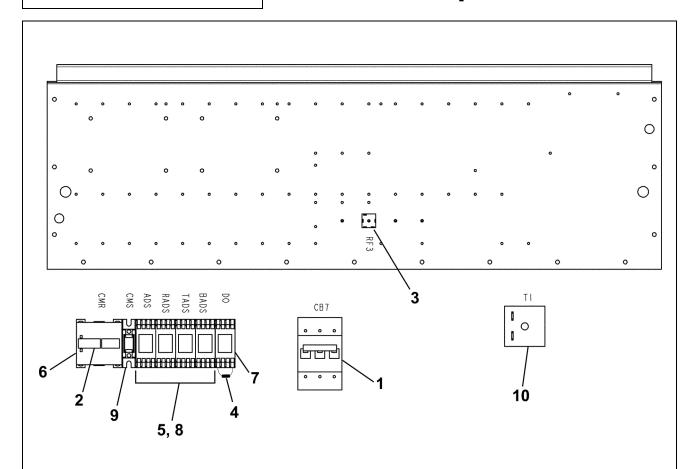
6970 Timed Resistance Door Operator Interface



MAC SSCPM / ECI 1000 Door Operator Interface

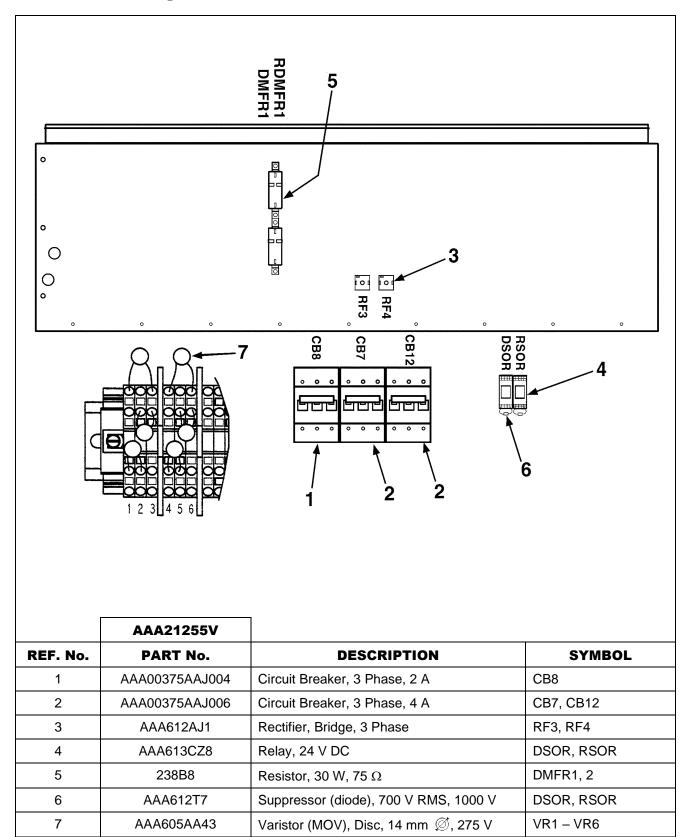


Manual Door Operator Interface

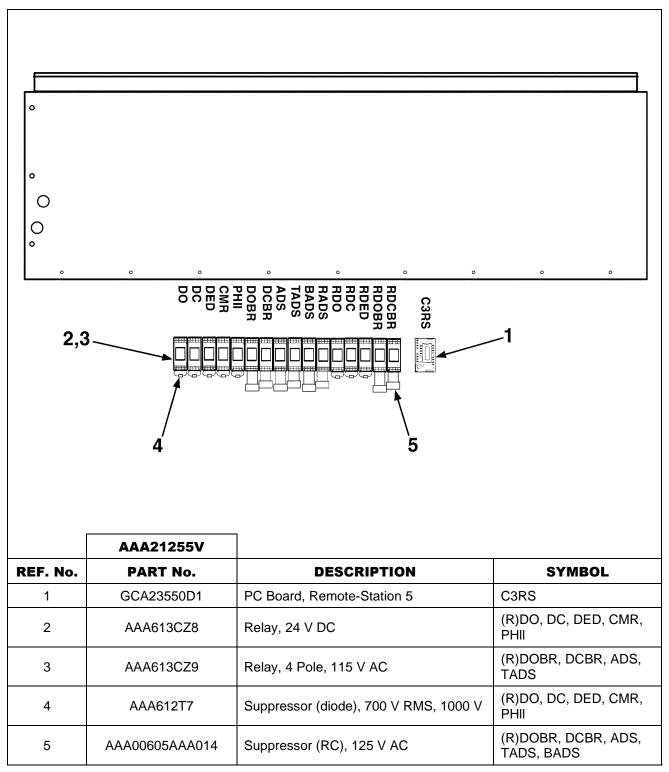


	AAA21255V		
REF. No.	PART No.	DESCRIPTION	SYMBOL
1	AAA00375AAJ006	Circuit Breaker, 3 Phase, 4 A	CB7
2	AAA638B105	Contactor, 3 NO, 1 NC Contacts, 24 V DC	CMR
3	AAA612AJ1	Rectifier, Bridge, 3 Phase	RF3
4	AAA613CZ8	Relay, 24 VDC	DO
5	AAA613CZ9	Relay, 4 Pole, 115 V AC	TADS, BADS, ADS, RADS
6	AAA613CX304	Suppressor (diode)	CMR
7	AAA612T2	Suppressor (diode)	DO
8	AAA00605AAA014	Suppressor (RC), 125 V AC	TADS, BADS, ADS, RADS
9	CAA604B2	Suppressor (varistor)	CMS
10	AAA623AA1	Timer	T1
	AAA605AA43	Varistor (MOV), Disc, 14 mm Ø, 275 V	VR4, VR5, VR6

6970 or BB2 CLDO Door Operator Interface

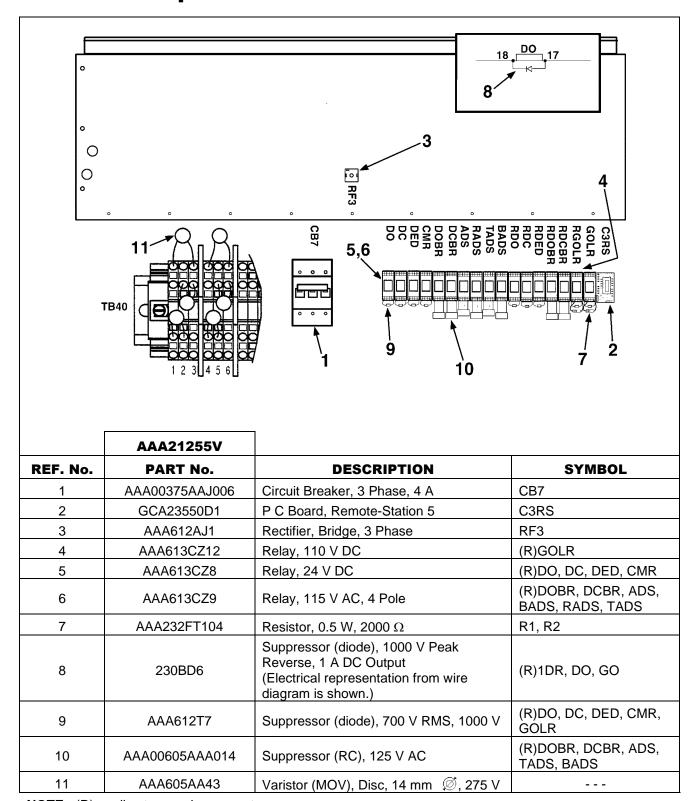


Peele Bi-Parting Freight Doors: Door Operator Interface

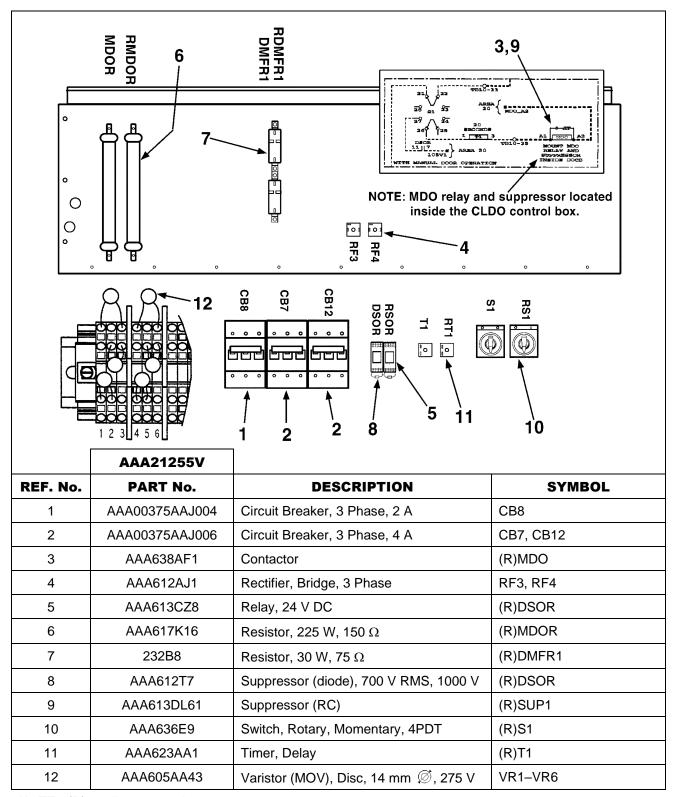


Type "F" Bi-Parting Freight Doors: Door Operator Interface

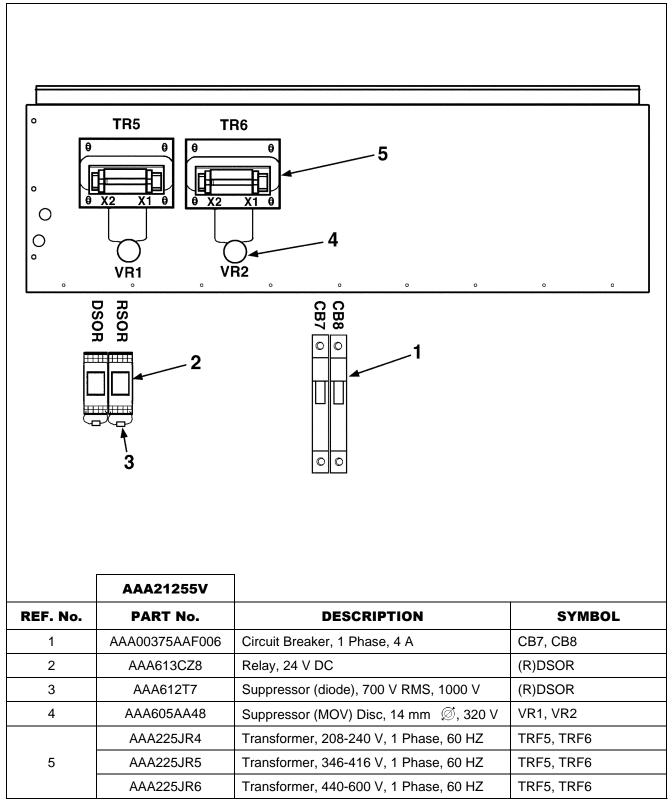
10-AAA21255V



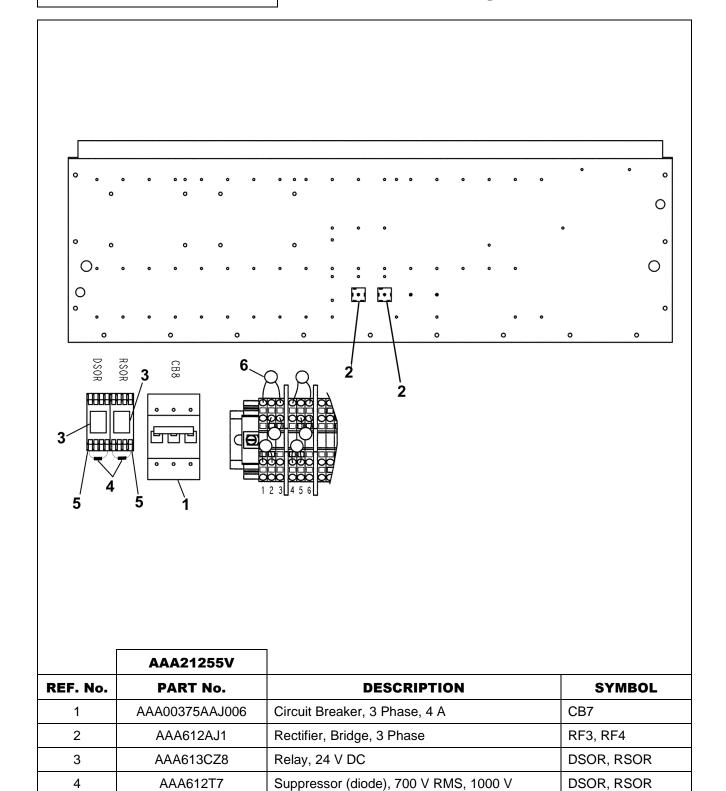
6970 or BB2 CLDO w/Manual Door Operation: Door Operator Interface



DO200/HPDS/HSDS/DCDS Door Operator Interface



i-MOTION Door Operator Interface



NOTE: (R) applies to rear door operator.

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618AE2

AAA605AA43

Socket, Relay

Varistor (MOV), Disc, 14 mm Ø, 275 V

DSOR, RSOR

VR1, VR2, VR3