

## EQUIPMENT AND SYSTEM LEGACY APPROVAL CERTIFICATE

**Certificate No. S 02-1202-120A**

**Approval date** 05/04/2017  
**Approved by** GM Technical Standards  
**Report no.** N/A  
**Report date** N/A

*This certificate is issued to*

**Supplier** Siemens  
 Level 7  
 380 Docklands Drive  
 Docklands 3008  
 Victoria

*In respect of*

**Manufacturer** Siemens  
**Product description** S-60 HIGHWAY GRADE CROSSING GATE  
**Item identification** Refer to Approved Item List.  
**Application** ARTC Network Wide  
**Relevant Standards** SPS 02 – 'Environmental Conditions';  
 SCP 05 – 'Electrical & Electronic Components (Ratings & Construction Requirements)';  
 ESC 03 01 - 'Level Crossing Equipment';  
 ESD 03 01 – 'Level Crossing Design'

<b>Conditions of Legacy Approval</b>	1. May continue to be used in current installations,
	2. Can be replaced with the same item of equipment during maintenance activities,
	3. Current installations must not be renewed,
	4. Shall not be used in new installations,
<b>Conditions of continued use</b>	5. For use in accordance with ARTC signals construction standards and standard typical circuits only,
	6. Only components from the attached list may be utilised,
	7. Any changes to the design or materials are not covered by this approval certificate and are to be submitted to ARTC to be re-

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	approved,
	8. Systems to be configured to ARTC requirements with respect to boom drive mechanism voltages.

*A general condition of approval is that the supplier remains accredited to ISO 9001 specifically for these products and ARTC is advised on a 12 monthly basis that accreditation is current. ARTC reserves the right to conduct its own audit of the manufacture and supply of these components to AS 19011.*

*Any subsequent change to the design, materials or manufacturing process is not covered by this approval. The manufacturer should notify ARTC of any modification or changes in order to obtain a valid updated certificate.*

**Note/Comments**                      None

**Issue date** 5 April 2017

**Expiry date**    N/A

**Issued by**

**John Furness**  
**ARTC Manager Standards**

***Type Approval Status***

Issue 1 – S 02-1202-IE120 - S-60 HIGHWAY GRADE CROSSING GATE – Superseded

Issue 2 – S 02-1202-IE120A - S-60 HIGHWAY GRADE CROSSING GATE – Current

### Approved Item List

#### S-60 Main Items

Catalogue No./Ref	Board Level	Description	Ver	Includes
074600-270002	-	S60 Entrance barrier mechanism, C tick compliant.  AREMA compliant 11-16V	-	Side arms, gate arm brackets, counter weights for 12.6m arm, MTSS, maintenance. switch
TBA	-	S60 Exit barrier mechanism  AREMA compliant <b>Exit only</b> 11-16V	-	Side arms, gate arm brackets, counter weights for 12.6m arm, MTSS, maintenance. switch
TBA	-	S60 Retro fit kit  <b>Upgrade for S40 Mechanism</b>	-	Gearmotor & electric brake combination, PCB, wiring plus accessories & hardware

#### S-60 Spares & options

Catalogue No./Ref	Board Level	Description	Ver	Includes
9000 - 25527-0001	E1	S60 Entrance gate Mechanism PCB	E2	12v Mechanism only
9000 - 25531-0001	D	S60 Exit gate mechanism PCB	D2	
8000-80286-0002/3	D	S60 MTSS Mini Trackside Sensor Board	D3	
073000-16		Contact Spring Scale		
-	-	AeroShell 7 Grease	-	
070981-X	-	Toolkit (Torque Wrench Kit)	-	<ul style="list-style-type: none"> <li>a. Torque Wrench</li> <li>b. Ratchet Wrench (3/8 in drive)</li> <li>c. Ratcheting Box End Wrench (1/2 and 9/16 inch openings)</li> <li>d. Socket (1/2 inch, 3/8 inch drive)</li> <li>e. Hex Key Wrench (3/16 inch)</li> <li>f. Tool Box (Instruction sheet)</li> </ul>

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074050-X	-	<p>Maintenance &amp; Install kit</p> <p>(included with S60)</p>	-	<ul style="list-style-type: none"> <li>a. S-60 I&amp;M Manual Pt# 074050</li> <li>b. 1/8" Allen Wrench for motor pinion Pt# 007650</li> <li>c. 3/16" Allen Wrench for cams &amp; motor adapter Pt# 070554-1</li> <li>d. 5/64" Allen Wrench for brake armature adjustment Pt# 007655</li> <li>e. 9/64" Allen Wrench for brake housing Pt# 007656</li> <li>f. 3/32" Allen Wrench for PCB &amp; MTSS fasteners Pt# 007657</li> <li>g. 0.015" Brake adjusting shim Pt# 074070-C</li> <li>h. 0.020" Brake adjusting shim Pt# 074070-D</li> <li>i. Retainer Pt# 070983-3</li> <li>j. 5/8" x 3/4" Bushing Pt# 070983-2</li> <li>k. 1/4" x 3/8" Bushing Pt#070983-1</li> <li>l. Torque Card Pt# 070982-2</li> </ul>
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