

## NEW EQUIPMENT AND SYSTEM APPROVAL CERTIFICATE

**Certificate No. 01-0604-022b** (supersedes 01-0604-022a)

**Approval date** 3 March 2015  
**Approved by** Review Panel  
**Report no.** TAR-01-1414-SI161 (& original report 08-08-10-031)  
**Report date** 5 November 2014

*This certificate is issued to*

**Supplier** Siemens

*In respect of*

**Manufacturer** Siemens  
380 Docklands Drive  
Docklands VIC 3008

**Product description** QEC1 Vital Relay (added to existing approved 'Q Type' vital relays)

**Item identification** See approved item list

**Application** Approved for use on the ARTC network.

**Relevant Standards** SDS 25 Circuit Design Standards  
SPS 02 Environmental Conditions  
SPS 10 Specification Relays, Plug-in Vital

**Conditions of Approval**

1. For use in accordance with ARTC specification SDS 25 'Circuit Design Standards' and standard typical circuits only
2. Only components from the attached approved item list may be utilised
3. Especial care shall be exercised when inserting relays into a base drilled for a non 'Network Rail' pin code (pins positions R, S, X, Y or Z drilled) to ensure that the correct relay type is utilised.

*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 certificate.*



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Issue date

11 March 2015

Expiry date N/A

Issued by

John Furness

ARTC Manager Standards

A handwritten signature in blue ink, appearing to read 'John Furness', written over the printed name.

### Approved Item List

The following lists the individual items approved for use on ARTC infrastructure under the above referenced New Equipment & System Approval Certificate number, subject to any conditions shown on that Certificate and the Conditions of Use shown against individual items.

#### Added March 2015:

Catalogue No.	Pin Code (BRB)	Description – Contact & (Coil) Configuration	Conditions of Use
<b>Relays</b>			
M25049	ABDJK	QEC1 – 4F/2B (12v DC)	16W LEDs = 100ms (slow to drop) 24W LEDs = 200ms (slow to drop)
<b>Base</b>			
M25455	ABDJK	QEC1	

#### Original approval (April 2006):

Catalogue No.	Pin Code (BRB)	Description – Contact & (Coil) Configuration	Conditions of Use
<b>Relays</b>			
M25051	027	QBA1 – 12F/4B (50v DC)	
M25052	028	QBA1 – 8F/8B (50v DC)	
M25032	DFHJX	QBT1 – 2F/2B (4Ω)	
M25101	049	QBBA1 – 2x6F/2B (50v DC)	
M25102	017	QBBA1 – 2x4F/4B (50v DC)	
M25132	ABDKS	QBBA1 – 2x4F/4B (12v DC)	
M25066	172	QBCA1 – 2HF/4B (50v DC)	
M25068	160	QBCA1 – 2HF/4F/4B (50v DC)	
M25070	ABCKS	QBCA1 – 2HF/4F/4B (12v DC)	
M25170	385	QCJ1 – 1F/3B 10s (50v DC)	
M25178	ADFJS	QCJ1 – 1F/3B 14s (50v DC)	

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M30852	071	QECX1 – 4F/2B (180mA)	
M25021	011	QL1 – 11F/4B (50v DC)	
M25023	008	QL1 – 8F/6B (50v DC)	
M25024	BDGJX	QL1 – 11F/4B (12v DC)	
M25001	003	QN1 – 12F/4B (50v DC)	
M25002	004	QN1 – 8F/8B (50v DC)	
M25012	ABCFX	QN1 – 8F/8B (12v DC)	
M25039	BDEGX	QN1 – 8F/8B (24v DC)	
M25071	023	QNA1 – 12F/4B (50v DC)	
M25072	024	QNA1 – 8F/8B (50v DC)	
M25029	029	QNHX1 – 8F/4B (110v AC)	Not immune to DC current
M30861	ADGKS	QNHXC1 – 2HF/4F/4B (110v AC)	Not immune to DC current
M25107	212	QNN1 – 2x6F/2B (50v DC)	
M25108	211	QNN1 – 2x4F/4B (50v DC)	
M25113	209	QNNA1 – 2x6F/2B (50v DC)	
M25188	175	QR5 – 4/7s slug	Use with 50v DC BR930 relay (QN1)
M25189	CDFKX	QR5 – Capacitor Unit	Use in flashing circuit
M25192	6062	QR9 – Diode Unit	
M25028	BCGHX	QS2 – 6F/6B (12v DC)	
M25081	043	QSPA1 – 8F/4B (50v DC)	
M25041	082	QSR3 – 4F/2B (105mA)	
M25086	063	QSRA1 – 8F/4B (50v DC)	
M25031	101	QT2 – 2F/2B (4Ω)	
M25092	110	QTA2 – 2F/2B (9Ω)	
M25159	BCEGX	QTD4 – 3 to 300s (0.5A)	
M25161	BDFHX	QTD5 – 5F/2B (50v DC)	
M25162	BEGHX	QTD5 – 4F/3B (50v DC)	
M25165	BDGHX	QTD5 – 5F/2B (12v DC)	
M25385	ADEKS	QTM1 – 4F/2MB (4Ω)	
M25199	ABCDJK	QXR1 – T/J (110v AC/50v DC)	

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Bases			
M19051	027	QBA1	
M19170	028	QBA1	
M25471	DFHJX	QBT1	
M23650	049	QBBA1	
M23451	017	QBBA1	
M25484	ABDKS	QBBA1	
M23430	172	QBCA1	
M25451	160	QBCA1	
M25479	ABCKS	QBCA1	
M24875	385	QCJ1	
M25499	ADFJS	QCJ1	
M31000	071	QECX1	
M19295	011	QL1	
M20518	008	QL1	
M25474	BDGJX	QL1	
M19294	003	QN1	
M20202	004	QN1	
M23107	ABCFX	QN1	
M23280	BDEGX	QN1	
M23080	023	QNA1	
M23976	024	QNA1	
M25490	029	QNHX1	
M31189	ADGKS	QNHXC1	
M23646	212	QNN1	
M23647	211	QNN1	
M24169	209	QNNA1	
M24044	175	QR5	Use for 4/7s slug.
M24233	CDFKX	QR5	Use for flashing circuit.
M24089	6062	QR9	

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M23059	BCGHX	QS2	
M20265	043	QSPA1	
M19039	082	QSR3	May be used for AC lamp circuits.
M25470	082	QSR3	
M18993	063	QSRA1	
M20989	101	QT2	
M23444	110	QTA2	
M22312	BCEGX	QTD4	
M23398	BDFHX	QTD5	
M23465	BEGHX	QTD5	
M23438	BDGHX	QTD5	
M25493	ADEKS	QTM1	
M23820	ABCDJK	QXR1	