

Product Type Approval Certificate

Full


This certificate is issued to:

Supplier name and address:	Siemens Rail Automation Pty Ltd 885 Mountain Hwy, Bayswater VIC 3153, Australia
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In respect of:

Manufacturer:	Siemens Rail Automation Pty Ltd
Place of manufacture:	United Kingdom
Product description:	<p>As part of this approval, the Q-type relay bases are now constructed from thermoset polyester plastic, replacing the previous approved material. These relay bases are fitted with removal crimp-type connectors, ensuring continued compatibility with Q-type relays.</p> <p>To streamline approvals and reduce the number of separate certificates, this type approval consolidates all previously approved Q-type relays and Q-type relay bases into a single type approval certificate.</p> <p>This type approval supersedes previous approvals for Q-type relays and Q-type relay bases manufactured by Siemens, as listed in Annexure 1, and formally approves the material change for relay bases.</p>
Use approved for:	Heavy rail signalling interlocking systems
Conditions of approval:	N/A
Limitations:	N/A

Evaluating rail transport operator

Name:	Coppel Lai
Position:	A/Director Signals and Control Systems Engineering
Signature:	
Date:	27/02/2025

Product approval pack reference number: fA17559351

Conditions of Approval

1. This Product Type Approval Certificate supersedes multiple previously issued type approval certificates. For a complete list, refer to Annexure 1.
2. This is a generic product type approval. The suitability of the type approved product for the proposed site specific application must be assessed against site specific requirements, interfaces, hazards, and conditions and must be supported with an assurance argument as detailed in the TfNSW frameworks and standards.
3. Usage shall be in accordance with TfNSW standards, the RIM's operational standards and procedures, the manufacturer's documentation and application constraints.
4. The manufacturer/vendor must promptly notify TfNSW AMB of any changes made to the product or system that may alter its identification, performance, functional characteristics, risks, assurance, form, fit, or required processes for correct usage. This is to allow a review of the type approval status.
5. TAOs utilising this product or system must verify that the product configuration, including but not limited to model(s), type(s) and version(s), complies with the configuration specified in the type approval.
6. Conclusions about suitability for use under conditions other than what is specified in this approval are not made. Reliance on this approval by any other organisation is entirely at that organisation's own risk.

Annexure 1 –Type Approval Listing – Q-Type Relays and Relay Bases

Item	Product Description (Relay Base)	Type Approval Number
1	Base, Relay BRB Code 003 To fit BRB 930, 50VDC, 12F4B QN1	*96/p003
2	Base, Relay BRB Code 004 To fit BRB 930 50VDC, 8F8B QN1	*96/p005
3	Base, Relay BRB Code ABCFX To fit BRB 930X 12VDC, 8F8B QN1	*96/p007
4	Base, Relay BRB Code 212 To fit BRB 960 50VDC, 2x6F2B QNN1	*96/p009
5	Base, Relay BRB Code 211 To fit BRB 960 50VDC, 2x4F4B QNN1	*96/p011
6	Base, Relay BRB Code 023 To fit BRB 931 50VDC 12F4B QNA1	*96/p013
7	Base, Relay BRB Code 024 To fit BRB 931 50VDC 8F8B QNA1	*96/p015
8	Base, Relay BRB Code 209 To fit BRB 966F6 50VDC, 2x6F2B QNNA1	*96/p017
9	Base, Relay BRB Code 043 To fit BRB 933 50VDC, 8F4B QSPA1	*96/p021
10	Base, Relay BRB Code 063 To fit BRB 934 50VDC, 8F4B QSRA1	*96/p023
11	Base, Relay BRB Code 027 To fit BRB 932 50VDC 12F4B QBA1	*96/p025
12	Base, Relay BRB Code 028 To fit BRB 932 50VDC 8F8B QBA1	*96/p027
13	Base, Relay BRB Code 049 To fit BRB 961 50VDC, 2x6F2B QBBA1	*96/p029
14	Base, Relay BRB Code 017 To fit BRB 961 50VDC, 2x4F4B QBBA1	*96/p031
15	Base, Relay BRB Code 172 To fit BRB 943 50VDC, 2HF4B QBCA1	*96/p033
16	Base, Relay BRB Code 160 To fit BRB 966F4 50VDC, 2HF4F4B QBCA1	*96/p035
17	Base, Relay BRB Code To fit BRB 966F4X 12VDC, 2HF4F4B QBCA1	*96/p037
18	Base, Relay BRB Code xxx BRB 93x 120VAC, 2HF4F4B, QNHXC1	*96/p039
19	Base, Relay BRB Code 011 To fit BRB 935 50VDC, 11F4B QL1	*96/p041
20	Base, Relay BRB Code 008 To fit BRB 935 50VDC, 8F6B QL1	*96/p043
21	Base, Relay BRB Code BDGJX To fit BRB 935X 12VDC 11F4B QL1	*96/p045
22	Base, Relay BRB Code 101 To fit BRB 938X 2F2B QT1	*96/p047
23	Base, Relay BRB Code BDEGX To fit BRB 938X 24VDC, 8F8B QT2	*96/p049
24	Base, Relay BRB Code 110 To fit BRB 966F2 2F2B QTA1	*96/p051

Item	Product Description (Relay Base)	Type Approval Number
25	Base, Relay BRB Code ADEKS To fit BRB 938X 4F 2MB QTM1	*96/p053
26	Base Relay BRB Code 082 To fit BRB 93X 105ma DC, 4F2B QSR3	*96/p067
27	Base, Relay BRB Code ABCDK To fit BRB 941 4F2B QECX1	*96/p069
28	Base, Relay BRB Code BCEGX To fit BRB 946X 12VDC QTD4	*96/p055
29	Base, Relay BRB Code BDFHX To fit BRB 962X 50VDC 5F2B QTD5	*96/p059
30	Base, Relay BRB Code BEGHX To fit BRB 962X 50VDC 4F3B QTD5	*96/p061
31	Base, Relay BRB Code BDGHX To fit BRB 962X 12VDC 5F2B QTD5	*96/p057
32	Base, Relay BRB Code ACELM To fit BRB 949 50VDC, 1F3B	*96/p063
33	Base, Relay BRB Code ADFJS To fit BRB 949 50VDC, 1F3B	*96/p065
34	Base, Relay BRB Code BDEGX BRB 938X, 24VDC, 8F8B, QN1	*96/p049R1
35	Base, Relay Unit QXR1 code ABCDJK, QXR1	*96/p071

Item	Product Description (Relay)	Type Approval Number
36	Westinghouse 12V, QS2 6F-6B	*01/1203
37	Westinghouse 12V, QBBA1 2 x 4F-4B	*01/1205
38	Plug-in Relays, All items listed in Spec 1056, 'Q' type relays and bases	*96/0502
39	Relay Vital min plug-in Code 003 BRB 930, 50VDC 12F4B (Neutral), QN1	*96/p001
40	Relay Vital min plug-in Code 004 BRB 930, 50VDC, 8F8B (Neutral), QN1	*96/p002
41	Relay Vital min plug-in Code ABCFX BRB, 930X 12VDC, 8F8B (Neutral), QN1	*96/p004
42	Relay Vital min plug-in Code 212 BRB 960, 50VDC 2x6F2B (DC Neutral Twin Relay), QNN1	*96/p006
43	Relay Vital min plug-in Code 211 BRB 960, 50VDC, 2x4F4B (DC Neutral Twin Relay), QNN1	*96/p008
44	Relay Vital min plug-in Code 023 BRB 931, 50VDC 12F4B (DC Neutral AC Immune), QNA1	*96/p010
45	Relay Vital min plug-in Code 024 BRB 931, 50VDC, 8F8B (DC Neutral AC Immune), QNA1	*96/p012
46	Relay Vital min plug-in Code 209 BRB, 966F6 50VDC, 2x6F2B (AC Immune), QNNA1	*96/p014

Item	Product Description (Relay)	Type Approval Number
47	Relay Vital min plug-in Code xxx BRB, 966F7 120VAC, 12F4B (AC Neutral Line Relay for SSI direct interface), QNHX1	*96/p016
48	Relay Vital min plug-in Code 043 BRB 933, 50VDC, 8F4B (Neutral slow pick-up), QSPA1	*96/p018
49	Relay Vital min plug-in Code 063 BRB 934, 50VDC, 8F4B (Neutral slow release), QSRA1	*96/p020
50	Relay Vital min plug-in Code 027 BRB 932, 50VDC, 12F4B (DC Biased AC Immune), QBA1	*96/p022
51	Relay Vital min plug-in Code 028 BRB 932, 50VDC, 8F8B (DC Biased AC Immune), QBA1	*96/p024
52	Relay Vital min plug-in Code 049 BRB 961, 50VDC, 2x6F2B (DC biased AC Immune Twin), QBBA1	*96/p026
53	Relay Vital min plug-in Code 017 BRB 961, 50VDC, 2x4F4B (DC biased AC Immune, Twin), QBBA1	*96/p028
54	Relay Vital min plug-in Code 172 BRB 943, 50VDC, 2HF4B (DC biased AC Immune, contactor), QBCA1	*96/p030
55	Relay Vital min plug-in Code 160 BRB, 966F4 50VDC, 2HF4F4B (DC biased AC Immune contactor), QBCA1	*96/p032
56	Relay Vital min plug-in Code BRB 966F4X, 12VDC, 2HF4F4B (DC biased AC Immune Contactor), QBCA1	*96/p034
57	Relay Vital min plug-in Code xxx BRB, 966F7/4 120VAC, 2HF4F4B (AC Contactor for direct SSI output), QNHXC1	*96/p036
58	Relay Vital min plug-in Code 011 BRB 935, 50VDC, 11F4B (Mag. Latched), QL1	*96/p038
59	Relay Vital min plug-in Code 008 BRB 935, 50VDC, 8F6B (Mag. Latched), QL1	*96/p040
60	Relay Vital min plug-in Code BDGJX BRB, 935X 12VDC, 11F4B (Mag. Latched), QL1	*96/p042
61	Relay Vital min plug-in Code BDEGX BRB, 938X 24VDC 8F8B (DC Neutral Track), QN1 250 Ohm	*96/p044
62	Relay Vital min plug-in Code BCEGX BR, 946X 12VDC (Slow to release Timer), QTD4	*96/p048R1
63	Relay Vital min plug-in Code BDGHX BRB, 962X 12VDC 5F2B (Slow to pick-up Timing Relay), QTD5	*96/p054
64	Relay Vital min plug-in Code BDFHX BRB, 962X 50VDC 5F2B (Slow to pick-up Timing Relay), QTD5	*96/p056
65	Relay Vital min plug-in Code BEGHX BRB, 962X 50VDC 4F3B (Slow to pick-up Timing Relay), QTD5	*96/p058R1

Item	Product Description (Relay)	Type Approval Number
66	Relay Vital min plug-in Code ACELM BRB 949, 50VDC, 1F3B (10S Slow to pick-up Timing Relay), QCJ1	*96/p060R1
67	Relay Vital min plug-in Code ADFJS BRB 949, 50VDC, 1F3B (14S Slow to pick-up Timing Relay), QCJ1	*96/p062
68	Relay Vital min plug-in Code 082 BRB 93X, 105ma DC, 4F2B (Slow release lamp proving), QSR3	*96/p064
69	Relay Vital min plug-in Code ABCDK BRB 941, 4F2B (AC slow release Lamp Proving), QECX1	*96/p066
70	Relay Vital min plug-in Code 003 BRB 930 50VDC 12F4B QN1 (Neutral)	*96/0502
71	Relay Vital min plug-in Code 004, BRB 930 50VDC, 8F8B QN1 (Neutral)	*96/0502
72	Relay Vital min plug-in Code ABCFX, BRB 930X 12VDC, 8F8B QN1 (Neutral)	*96/0502
73	Relay Vital min plug-in Code 212 BRB 960 50VDC 2x6F2B QNN1 (DC Neutral Twin Relay)	*96/0502
74	Relay Vital min plug-in Code 211 BRB 960 50VDC, 2x4F4B QNN1 (DC Neutral Twin Relay)	*96/0502
75	Relay Vital min plug-in Code 023 BRB 931 50VDC 12F4B QNA1 (DC Neutral AC Immune)	*96/0502
76	Relay Vital min plug-in Code 024 BRB 931 50VDC, 8F8B QNA1 (DC Neutral AC Immune)	*96/0502
77	Relay Vital min plug-in Code 209 BRB 966F6 50VDC, 2x6F2B QNNA1 (AC Immune)	*96/0502
78	Relay Vital min plug-in Code 043 BRB 933 50VDC, 8F4B QSPA1 (Neutral slow pick-up)	*96/0502
79	Relay Vital min plug-in Code 063, BRB 934 50VDC, 8F4B QSRA1 (Neutral slow release)	*96/0502
80	Relay Vital min plug-in Code 027 BRB 932 50VDC, 12F4B QBA1 (DC Biased AC Immune)	*96/0502
81	Relay Vital min plug-in Code 028 BRB 932 50VDC, 8F8B QBA1 (DC Biased AC Immune)	*96/0502
82	Relay Vital min plug-in Code 049 BRB 961 50VDC, 2x6F2B QBBA1 (DC biased AC Immune Twin)	*96/0502
83	Relay Vital min plug-in Code 017 BRB 961 50VDC, 2x4F4B QBBA1 (DC biased AC Immune Twin)	*96/0502
84	Relay Vital min plug-in Code 172 BRB 943 50VDC, 2HF4B QBCA1 (DC biased AC Immune contactor)	*96/0502

Item	Product Description (Relay)	Type Approval Number
85	Relay Vital min plug-in Code 160 BRB 966F4 50VDC, 2HF4F4B QBCA1 (DC biased AC Immune contactor)	*96/0502
86	Relay Vital min plug-in Code BRB 966F4X 12VDC, 2HF4F4B QBCA1 (DC biased AC Immune Contactor)	*96/0502
87	Relay Vital min plug-in Code 011 BRB 935 50VDC, 11F4B QL1 (Mag. Latched)	*96/0502
88	Relay Vital min plug-in Code 008 BRB 935 50VDC, 8F6B QL1 (Mag. Latched)	*96/0502
89	Relay Vital min plug-in Code BDGJX BRB 935X 12VDC, 11F4B QL1 (Mag. Latched)	*96/0502
90	Relay Vital min plug-in Code 101 BRB 938X 2F2B QT1 (4 ohm DC Neutral Track)	*96/0502
91	Relay Vital min plug-in Code BDEGX BRB 938X 24VDC 8F8B QT2 (DC Neutral Track)	*96/0502
92	Relay Vital min plug-in Code 110 BRB 966F2 2F2B QTA1 (9 ohm AC Immune DC Track)	*96/0502
93	Relay Vital min plug-in Code ADEKS BRB 938X 4F 2MB QTM1 (DC neutral Track with metal to metal Back contacts)	*96/0502
94	Relay Vital min plug-in Code 082 BRB 93X 105ma DC, 4F2B QSR3 (Slow release lamp proving)	*96/0502
95	Relay Vital min plug-in Code ABCDK BRB 941, 4F2B QECX1 (AC slow release Lamp Proving)	*96/0502
96	Relay Vital min plug-in Code BCEGX BR 946X 12VDC QTD4 (Slow to release Timer)	*96/0502
97	Relay Vital min plug-in Code BDFHX BRB 962X 50VDC 5F2B QTD5 (Slow to pick-up Timing Relay)	*96/0502
98	Relay Vital min plug-in Code BEGHX BRB 962X 50VDC 4F3B QTD5 (Slow to pick-up Timing Relay)	*96/0502
99	Relay Vital min plug-in Code BDGHX BRB 962X 12VDC 5F2B QTD5 (Slow to pick-up Timing Relay)	*96/0502
100	Relay Vital min plug-in Code ACELM BRB 949 50VDC, 1F3B QCJ1. (Slow to pick-up Timing Relay)	*96/0502
101	Relay Vital min plug-in Code BRB 949 50VDC, 1F3B QCJ1. (Slow to pick-up Timing Relay)	*96/0502