



Certificate of Compliance

Certificate Number: LR 35579-159

Revision: LR 35579-441

Date Issued: August 18, 1998

Issued To: TAKAMISAWA ELECTRIC CO., LTD.
No. 3-5, Higashi-Gotanda 2-chome
Shinagawa-ku, Tokyo 141
Japan

The products listed below are eligible to bear the CSA Mark.

Issued By: Yim Hui, P. Eng.
Director
Far East Operations

Signature

CLASS

3211 04 - INDUSTRIAL CONTROL EQUIPMENT - Motor Controllers - Magnetic

PRODUCTS

Relays, Types VS and VSL (with suffixes), open type with dust cover, 1-pole, single or double throw, coils 3 to 110V dc, contacts rated as follows;

<u>Type Designation</u>	<u>24V dc</u>	<u>30V dc</u>	<u>120V ac</u>	<u>240V ac</u>	<u>Pilot Duty</u>
VS***U- (500-899) -N/None	10A(res)	10A(res)	1/3hp	10A(res) 1/3hp	C150
VS***U- (500-899) -5/E	10A(res)	10A(res)	1/3hp	10A(res) (100K cyc) 1/3hp	C150

JR-89178

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VS**T*U- (650-699) -5	10A (res)	10A (res)	1/3hp NC: TV-2 NO: TV-3	10A (res) 1/3hp	C150
VS***U- (500-899) -OH	1A (res)	-	-	1A (res)	-
VS**M*U- (500-899) -NR	15A (res)	-	15A (res) 1/3hp 1/2hp	10A (res) 1/3hp 1/2hp	B150
VS**M*U- (500-899) -5R	15A (res)	-	15A (res) 1/2hp	10A (res) 1/2hp	B150
VS**M*- (300-499) -N/VB/None	10A (res)	-	TV-5 1/3hp	10A (res) 1/3hp	C150
VS*M*- (1000-1199)	-	-	TV-3	-	-
VS*M*- (300-499) -NR	15A (res)	-	TV-8 15A (res) 1/3hp 1/2hp	10A (res) 1/3hp 1/2hp	B150
VS*M*- (300-499) -5R	15A (res)	-	TV-8 15A (res) 1/2hp	10A (res) 1/2hp	B150
VSL***U- (500-899) -5/E/N/None	10A (res)	10A (res)	1/3hp	10A (res) 1/3hp	C150
VSL***U- (500-899) -OH	1A (res)	-	-	1A (res)	-
VSL*M*U- (500-899) -NR	15A (res)	-	15A (res) 1/3hp 1/2hp	10A (res) 1/3hp 1/2hp	B150
VSL*M*U- (500-899) -5R	15A (res)	-	15A (res) 1/2hp	10A (res) 1/2hp	B150
VSL*M*- (300-499) -N/None	10A (res)	-	TV-5 1/3hp	10A (res) 1/3hp	C150



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VSL*M*-(300-499)-NR	15A(res) -	TV-8	10A(res)	B150
		15A(res)	1/3hp	
		1/3hp	1/2hp	
		1/2hp		
VSL*M*-(300-499)-5R	15A(res) -	TV-8	10A(res)	B150
		15A(res)	1/2hp	
		1/2hp		

Relays, Types VB and VBL (with suffixes), open type with dust cover, 2-pole, single or double throw, coils 3 to 110V dc, contacts rated as follows;

<u>Type Designation</u>	<u>24V dc</u>	<u>30V dc</u>	<u>120V ac</u>	<u>240V ac</u>	<u>250Vac</u>	<u>Pilot Duty</u>
VB***U-(500-899)-5/E/N/None	5A(res)	5A(res)	1/6hp	5A(res)	-	C150
				1/6hp		
VB***U-(500-899)-5	5A(res)	5A(res)	1/6hp	5A(res)	6A(res)	C300
			1/8hp	1/6hp	(50K cyc)	
			(30K cyc)	1/4hp		
			1/10hp			
			(50K cyc)			
VB***U-(500-899)-OH	1A(res)	-	-	1A(res)	-	-
VB*M*(300-499)-F/N	5A(res)	5A(res)	TV-3	5A(res)	-	C150
			1/6hp	1/6hp		
VB*M*-(300-499)-None	5A(res)	5A(res)	TV-3	TV-3	-	C150
			1/6hp	1/6hp		
				5A(res)		
VB*M*-(1200-1299)	-	-	TV-5	-	-	-
VBL***U-(500-899)-5/E/N/None	5A(res)	5A(res)	1/6hp	5A(res)	-	C150
				1/6hp		
VBL***U-(500-899)-OH	1A(res)	-	-	1A(res)	-	-
VBL*M*-(300-499)-F/N	5A(res)	5A(res)	TV-3	5A(res)	-	C150
			1/6hp	1/6hp		



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Notes:

1. Asterisks in the type Designation may be replaced with an Arabic numeral(s) or an alphabetical letter indicating coil voltage, coil power, contact configuration and dust cover construction.
2. Open type relays are Certified as components for use only in other Certified equipment where the suitability of the combination is terminated by the Canadian Standards Association.

APPLICABLE REQUIREMENTS

CSA Standard C22.2 No. 14-95 - Industrial Control Equipment