



OVR-1 Recloser and ICD Control

Style Guide 1VAL264301-SG

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Revision E

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The OVR-1 Recloser style guide is designed to assist you in selecting the proper OVR-1 style number. The OVR-1 recloser consists of an upper unit, cable assembly, mounting frame, and the ICD control with cabinet. The ICD control provides all the protection and metering functions required by the unit. When ordering an OVR-1 recloser, the style number must be given to the factory.

Typical Style Code	R	S	1	4	6	-	P	L	B	N	-	S	N	C	N	-	0	0
Position Number	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18

Section 1. OVR-1 Recloser Selection Tables

Table 1. Recloser Ratings

Voltage (kV)	BIL (kV)	Continuous Current (A)	Interrupting Rating (kA)	Style Code Digits 1-5
15	110	400	6	RS146
15	110	800	6	RS186
15	110	400	10	RS141
15	110	800	10	RS181
27	125	400	6	RS246
27	125	800	6	RS286
27	125	400	10	RS241
27	125	800	10	RS281

Style Code Digit 6
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Table 2. High Voltage Mounting Frame

Frame	Description	Style Code Digit 7
Pole mounting frame with arrester mounting brackets for line and load side – Assembled	Stainless steel pole mounting frame with mounting provisions for line and load side arresters – Assembled. 12” hole spacing.	P

Table 3. Low Voltage Cabinet Mounting

Frame	Description	Style Code Digit 8
Stainless steel cabinet with electromechanical counter and galvanized pole mounting channel	Low voltage control cabinet to be mounted at base of pole with galvanized pole mounting channel	L

Table 4. Control Cable Length

Control cable assembly actual length	Description (Connectors and cable can transfer current and voltage signals, as well as power, between cabinets)	Style Code Digit 9
10 feet [3 m] V and I (12-Pin)	10 foot [3 m] cable assembly for voltage and current signals	A
20 feet [6 m] V and I (12-Pin)	20 foot [6 m] cable assembly for voltage and current signals	B
30 feet [9 m] V and I (12-Pin)	30 foot [9 m] cable assembly for voltage and current signals	C
40 feet [12 m] V and I (12-Pin)	40 foot [12 m] cable assembly for voltage and current signals	D

Note: to mount cabinets 25 feet apart, select 30-foot cable for drip loop and spacing (add 5 feet)

Table 5. Control Power

Voltage Input to power Control	Description	Style code Digit 10
120 VAC Input	120 VAC input from external source. Includes 10' cable for connection to 120 potential source at recloser pole.	N
120 VAC Input with 48 VDC battery backup	120 VAC input from external source. Includes 10' cable for connection to 120 potential source at recloser pole. Includes Qty - 4, 12V 7.2 AH sealed lead acid batteries with 48 VDC, 0.9 A Charger – 24 hr carryover	B
240 VAC Input	240 VAC input from external source. Includes 10' cable for connection to 240 potential source at recloser pole.	C
240 VAC Input with 48 VDC battery backup	240 VAC input from external source. Includes 10' cable for connection to 240 potential source at recloser pole. Includes Qty - 4, 12V 7.2 AH sealed lead acid batteries with 48 VDC, 0.9 A Charger – 24 hr carryover	D

Style Code Digit 11
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Table 6. ICD Control (Firmware & Software)

Control	Description	Style code Digit 12
ICD Control	ICD Control including 13 recloser curves, 6 ANSI curves, standard and alternate pickup setting and software to view and select firmware components	S

Table 7. Communication Ports and Protocol

Communication Protocols	Description	Style code Digit 13
MODBUS ASCII	Includes one non-isolated RS-232 port only for externally isolated SCADA communication and local programming	N
MODBUS ASCII with DNP level converter	Includes one non-isolated RS-232 port only for externally isolated SCADA communication and local programming Includes MODBUS ASCII to DNP level converter Available only when 120/240 VAC Input with 48 VDC battery backup is selected (Option B for Style Digit 10)	C

Note: All ICDs are supplied with a 9 pin RS-232 port that supports MODBUS ASCII only

Table 8. Bushing Terminal Connectors

Connector	Description	Style code Digit 14
None - Stud terminal	Threaded stud is 1"-12 thread	S
NEMA 2-Hole Pad	NEMA 2-hole pad (2 included)	2
NEMA 4-Hole Pad	NEMA 4-hole pad (2 included)	4
Clamp	Clamp type connector (#6-800 MCM) (2 included)	C

Table 9. Tamper Resistance

Cable Locking Sleeve	Description	Style code Digit 15
16-pin locking sleeve	Tamper resistant cable locking sleeve – 16-pin connector	C

Table 10. Options

Animal Guards	Description
Animal Guard	Animal guard - Straight shaped. Order 1 or 2 per Reclosers
Animal Guard	Animal guard - L-shaped. Order 1 or 2 per Reclosers

Style Code Digit 16
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Style Code Digit 17-18
00 for Standard – Style numbering will change for specials & dynamic accessories



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