Main Protection
High Impedance Circulating Current - DAD 7SR23

Product description	Variants	Order No.

High Impedance Protection (DAD)

Order No. positions:

1	2	3	4	5	6	7		8	9	10	11	12		13	14	15	16
7	S	R	2	3	0	□	-	1	□	A	□	□	-	0	C	A	0

Protection Product Family
High Impedance — **3**

Relay Type
Circulating Current (4 pole functionality) — **0**

Housing, I/O and Fascia
E6 housing, 4 CT, 9 Binary Inputs / 8 Binary Outputs, 8 LEDs — **2**
E8 housing, 4 CT, 19 Binary Inputs / 16 Binary Outputs, 16 LEDs — **3**

Measuring Input
1/5 A, 50/60Hz — **1**

Auxiliary voltage
30 to 220 V DC, binary input threshold 19V DC — **A**
30 to 220 V DC, binary input threshold 88V DC — **B**

Communication Interface

Description	pos 11	pos 12
Standard version – included in all models, USB front port, RS485 rear port	1	2
Standard version – plus additional rear F/O ST connectors (x2) and IRIG-B	2	2
Standard version – plus additional rear RS485 and IRIG-B	3	2
Standard version – plus additional rear RS232 and IRIG-B	4	2
Standard version – plus additional rear Electrical Ethernet RJ45 (x2)	7	7
Standard version – plus additional rear Optical Ethernet Duplex (x2)	8	7

Protocol

Description	pos 11	pos 12
IEC 60870-5-103 and Modbus RTU and DNP 3.0 (user selectable)		2
IEC 60870-5-103 and Modbus RTU and DNP 3.0 (user selectable) and IEC61850	7/8	7

Protection Function Packages — **C**
87/50 — 3 Phase High Impedance Differential
87REF — High Impedance Restricted Earth Fault
50G — Measured Earth Fault
CT50 — Phase CT Supervision
74TC — Trip Circuit Supervision
Programmable Logic

Additional Functionality
No Additional Functionality — **A**