HD4 AND VD4/R ESH

Product Data Sheet

HDZ-60-30C 1VCF349750S0909

Circuit Breaker Spring Charging Motor

AUXILIARY DC VOLTAGE	AUXILIARY AC VOLTAGE	ABB DESIGNATION	COMPATIBLE BREAKER FAMILIES
110–132 V DC	**110–127 V AC**	**M-MS-MAS**	**HD4 and VD4/R ESH**

The ABB HDZ-60-30C 1VCF349750S0909 is a spring-charging motor for compatible HD4 and VD4/R ESH circuit breaker mechanisms. The ABB spare parts catalog identifies the assembly as M-MS-MAS with a motor limit switch.

01 TECHNICAL DATA

Auxiliary DC voltage	110–132 V DC
Auxiliary AC voltage	110–127 V AC
ABB designation	M-MS-MAS
Compatible breaker families	HD4 and VD4/R ESH
Motor limit switch	Included in ABB catalog configuration
ABB catalog certification level	L2

ABB Medium Voltage Service Spares, October 2025, section 17.16, p. 133

02 ADDITIONAL PRODUCT DATA

The specified auxiliary supply is 110–132 V DC or 110–127 V AC. The motor charges the breaker’s operating spring and the associated limit switch forms part of the charging assembly.

03 PRODUCT FUNCTION

Identify the breaker family and ESH mechanism configuration from the equipment records. Compare the installed auxiliary supply with the S0909 AC or DC voltage range before assigning the motor.

04 SYSTEM COMPATIBILITY

Use the breaker-specific wiring diagram to identify the motor and limit-switch connections. Confirm the supplied assembly includes the motor limit switch required by the documented configuration.

05 REFERENCE

ABB Medium Voltage Service Spares, October 2025, section 17.16, p. 133

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