

DC MCBs for Railway Ex9BD-JC

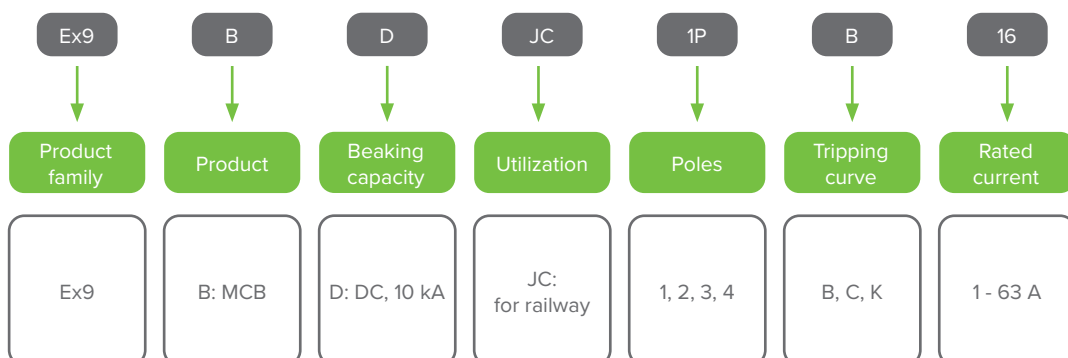


- Miniature Circuit Breakers for Railway according to IEC/EN 60974-2, EN 45545 (fire protection on railway vehicles) and IEC/EN 61373 (rolling stock equipment - shock and vibration tests)
- DC version
- Ultimate Breaking Capacity I_{cu} 10 kA
- 1 up to 4-pole versions
- Tripping characteristics B, C, K
- Rated current up to 63 A
- Rated operational voltage 250 V DC per pole

Ex9BD-JC miniature circuit breakers are specifically designed for railway applications, meeting the stringent requirements of IEC/EN 60974-2, EN 45545 (fire protection on railway vehicles), and IEC/EN 61373 (rolling stock equipment - shock and vibration tests). These breakers offer versatility across different railway systems. This version provides ultimate breaking capacities of 10 kA and is available with characteristics B, C, and K, ensuring reliable performance under diverse conditions.

These circuit breakers can be equipped with accessories AX33 auxiliary contacts, AL33 signal contacts and SHT33 shunt trip release. This flexibility allows for customized configurations tailored to specific application needs, ensuring comprehensive protection and monitoring in critical railway environments.

Type Key

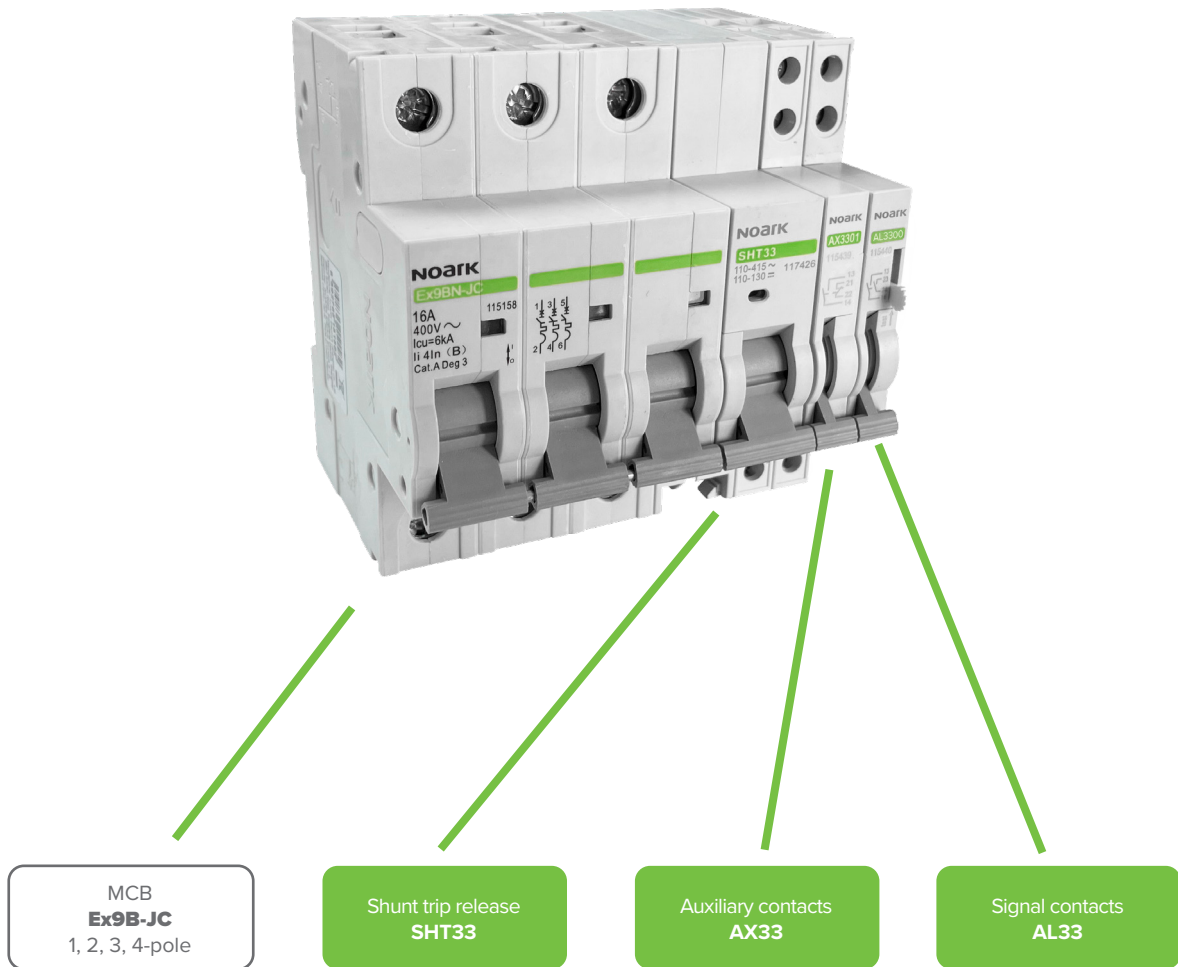


Certification marks



DC MCBs for Railway **Ex9BD-JC**

Accessories



Auxiliary contacts AX33
Signal contacts AL33
Shunt trip release SHT33

DC MCBs for Railway Ex9BD-JC

B-Characteristic, 1-pole, DC, 10 kA



Rated current	Poles	Rated op. voltage	Char.	Article No.	Type	Packing
1 A	1	250 V DC	B	114861	Ex9BD-JC 1P B1A EU	1/12/108
1.6 A	1	250 V DC	B	114862	Ex9BD-JC 1P B1.6A EU	1/12/108
2 A	1	250 V DC	B	114863	Ex9BD-JC 1P B2A EU	1/12/108
3 A	1	250 V DC	B	114864	Ex9BD-JC 1P B3A EU	1/12/108
4 A	1	250 V DC	B	114865	Ex9BD-JC 1P B4A EU	1/12/108
6 A	1	250 V DC	B	114866	Ex9BD-JC 1P B6A EU	1/12/108
8 A	1	250 V DC	B	114867	Ex9BD-JC 1P B8A EU	1/12/108
10 A	1	250 V DC	B	114868	Ex9BD-JC 1P B10A EU	1/12/108
13 A	1	250 V DC	B	114869	Ex9BD-JC 1P B13A EU	1/12/108
16 A	1	250 V DC	B	114870	Ex9BD-JC 1P B16A EU	1/12/108
20 A	1	250 V DC	B	114871	Ex9BD-JC 1P B20A EU	1/12/108
25 A	1	250 V DC	B	114872	Ex9BD-JC 1P B25A EU	1/12/108
32 A	1	250 V DC	B	114873	Ex9BD-JC 1P B32A EU	1/12/108
40 A	1	250 V DC	B	114874	Ex9BD-JC 1P B40A EU	1/12/108
50 A	1	250 V DC	B	114875	Ex9BD-JC 1P B50A EU	1/12/108
63 A	1	250 V DC	B	114876	Ex9BD-JC 1P B63A EU	1/12/108

B-Characteristic, 2-pole, DC, 10 kA



Rated current	Poles	Rated op. voltage	Char.	Article No.	Type	Packing
1 A	2	500 V DC	B	114909	Ex9BD-JC 2P B1A EU	1/6/54
1.6 A	2	500 V DC	B	114910	Ex9BD-JC 2P B1.6A EU	1/6/54
2 A	2	500 V DC	B	114911	Ex9BD-JC 2P B2A EU	1/6/54
3 A	2	500 V DC	B	114912	Ex9BD-JC 2P B3A EU	1/6/54
4 A	2	500 V DC	B	114913	Ex9BD-JC 2P B4A EU	1/6/54
6 A	2	500 V DC	B	114914	Ex9BD-JC 2P B6A EU	1/6/54
8 A	2	500 V DC	B	114915	Ex9BD-JC 2P B8A EU	1/6/54
10 A	2	500 V DC	B	114916	Ex9BD-JC 2P B10A EU	1/6/54
13 A	2	500 V DC	B	114917	Ex9BD-JC 2P B13A EU	1/6/54
16 A	2	500 V DC	B	114918	Ex9BD-JC 2P B16A EU	1/6/54
20 A	2	500 V DC	B	114919	Ex9BD-JC 2P B20A EU	1/6/54
25 A	2	500 V DC	B	114920	Ex9BD-JC 2P B25A EU	1/6/54
32 A	2	500 V DC	B	114921	Ex9BD-JC 2P B32A EU	1/6/54
40 A	2	500 V DC	B	114922	Ex9BD-JC 2P B40A EU	1/6/54
50 A	2	500 V DC	B	114923	Ex9BD-JC 2P B50A EU	1/6/54
63 A	2	500 V DC	B	114924	Ex9BD-JC 2P B63A EU	1/6/54

B-Characteristic, 3-pole, DC, 10 kA



Rated current	Poles	Rated op. voltage	Char.	Article No.	Type	Packing
1 A	3	750 V DC	B	114957	Ex9BD-JC 3P B1A EU	1/4/36
1.6 A	3	750 V DC	B	114958	Ex9BD-JC 3P B1.6A EU	1/4/36
2 A	3	750 V DC	B	114959	Ex9BD-JC 3P B2A EU	1/4/36
3 A	3	750 V DC	B	114960	Ex9BD-JC 3P B3A EU	1/4/36
4 A	3	750 V DC	B	114961	Ex9BD-JC 3P B4A EU	1/4/36
6 A	3	750 V DC	B	114962	Ex9BD-JC 3P B6A EU	1/4/36
8 A	3	750 V DC	B	114963	Ex9BD-JC 3P B8A EU	1/4/36
10 A	3	750 V DC	B	114964	Ex9BD-JC 3P B10A EU	1/4/36
13 A	3	750 V DC	B	114965	Ex9BD-JC 3P B13A EU	1/4/36
16 A	3	750 V DC	B	114966	Ex9BD-JC 3P B16A EU	1/4/36
20 A	3	750 V DC	B	114967	Ex9BD-JC 3P B20A EU	1/4/36
25 A	3	750 V DC	B	114968	Ex9BD-JC 3P B25A EU	1/4/36
32 A	3	750 V DC	B	114969	Ex9BD-JC 3P B32A EU	1/4/36
40 A	3	750 V DC	B	114970	Ex9BD-JC 3P B40A EU	1/4/36
50 A	3	750 V DC	B	114971	Ex9BD-JC 3P B50A EU	1/4/36
63 A	3	750 V DC	B	114972	Ex9BD-JC 3P B63A EU	1/4/36

DC MCBs for Railway **Ex9BD-JC**

B-Characteristic, 4-pole, DC, 10 kA



Rated current	Poles	Rated op. voltage	Char.	Article No.	Type	Packing
1 A	4	1000 V DC	B	115005	Ex9BD-JC 4P B1A EU	1/3/27
1.6 A	4	1000 V DC	B	115006	Ex9BD-JC 4P B1.6A EU	1/3/27
2 A	4	1000 V DC	B	115007	Ex9BD-JC 4P B2A EU	1/3/27
3 A	4	1000 V DC	B	115008	Ex9BD-JC 4P B3A EU	1/3/27
4 A	4	1000 V DC	B	115009	Ex9BD-JC 4P B4A EU	1/3/27
6 A	4	1000 V DC	B	115010	Ex9BD-JC 4P B6A EU	1/3/27
8 A	4	1000 V DC	B	115011	Ex9BD-JC 4P B8A EU	1/3/27
10 A	4	1000 V DC	B	115012	Ex9BD-JC 4P B10A EU	1/3/27
13 A	4	1000 V DC	B	115013	Ex9BD-JC 4P B13A EU	1/3/27
16 A	4	1000 V DC	B	115014	Ex9BD-JC 4P B16A EU	1/3/27
20 A	4	1000 V DC	B	115015	Ex9BD-JC 4P B20A EU	1/3/27
25 A	4	1000 V DC	B	115016	Ex9BD-JC 4P B25A EU	1/3/27
32 A	4	1000 V DC	B	115017	Ex9BD-JC 4P B32A EU	1/3/27
40 A	4	1000 V DC	B	115018	Ex9BD-JC 4P B40A EU	1/3/27
50 A	4	1000 V DC	B	115019	Ex9BD-JC 4P B50A EU	1/3/27
63 A	4	1000 V DC	B	115020	Ex9BD-JC 4P B63A EU	1/3/27

DC MCBs for Railway Ex9BD-JC

C-Characteristic, 1-pole, DC, 10 kA



Rated current	Poles	Rated op. voltage	Char.	Article No.	Type	Packing
1 A	1	250 V DC	C	114877	Ex9BD-JC 1P C1A EU	1/12/108
1.6 A	1	250 V DC	C	114878	Ex9BD-JC 1P C1.6A EU	1/12/108
2 A	1	250 V DC	C	114879	Ex9BD-JC 1P C2A EU	1/12/108
3 A	1	250 V DC	C	114880	Ex9BD-JC 1P C3A EU	1/12/108
4 A	1	250 V DC	C	114881	Ex9BD-JC 1P C4A EU	1/12/108
6 A	1	250 V DC	C	114882	Ex9BD-JC 1P C6A EU	1/12/108
8 A	1	250 V DC	C	114883	Ex9BD-JC 1P C8A EU	1/12/108
10 A	1	250 V DC	C	114884	Ex9BD-JC 1P C10A EU	1/12/108
13 A	1	250 V DC	C	114885	Ex9BD-JC 1P C13A EU	1/12/108
16 A	1	250 V DC	C	114886	Ex9BD-JC 1P C16A EU	1/12/108
20 A	1	250 V DC	C	114887	Ex9BD-JC 1P C20A EU	1/12/108
25 A	1	250 V DC	C	114888	Ex9BD-JC 1P C25A EU	1/12/108
32 A	1	250 V DC	C	114889	Ex9BD-JC 1P C32A EU	1/12/108
40 A	1	250 V DC	C	114890	Ex9BD-JC 1P C40A EU	1/12/108
50 A	1	250 V DC	C	114891	Ex9BD-JC 1P C50A EU	1/12/108
63 A	1	250 V DC	C	114892	Ex9BD-JC 1P C63A EU	1/12/108

C-Characteristic, 2-pole, DC, 10 kA



Rated current	Poles	Rated op. voltage	Char.	Article No.	Type	Packing
1 A	2	500 V DC	C	114925	Ex9BD-JC 2P C1A EU	1/6/54
1.6 A	2	500 V DC	C	114926	Ex9BD-JC 2P C1.6A EU	1/6/54
2 A	2	500 V DC	C	114927	Ex9BD-JC 2P C2A EU	1/6/54
3 A	2	500 V DC	C	114928	Ex9BD-JC 2P C3A EU	1/6/54
4 A	2	500 V DC	C	114929	Ex9BD-JC 2P C4A EU	1/6/54
6 A	2	500 V DC	C	114930	Ex9BD-JC 2P C6A EU	1/6/54
8 A	2	500 V DC	C	114931	Ex9BD-JC 2P C8A EU	1/6/54
10 A	2	500 V DC	C	114932	Ex9BD-JC 2P C10A EU	1/6/54
13 A	2	500 V DC	C	114933	Ex9BD-JC 2P C13A EU	1/6/54
16 A	2	500 V DC	C	114934	Ex9BD-JC 2P C16A EU	1/6/54
20 A	2	500 V DC	C	114935	Ex9BD-JC 2P C20A EU	1/6/54
25 A	2	500 V DC	C	114936	Ex9BD-JC 2P C25A EU	1/6/54
32 A	2	500 V DC	C	114937	Ex9BD-JC 2P C32A EU	1/6/54
40 A	2	500 V DC	C	114938	Ex9BD-JC 2P C40A EU	1/6/54
50 A	2	500 V DC	C	114939	Ex9BD-JC 2P C50A EU	1/6/54
63 A	2	500 V DC	C	114940	Ex9BD-JC 2P C63A EU	1/6/54

C-Characteristic, 3-pole, DC, 10 kA



Rated current	Poles	Rated op. voltage	Char.	Article No.	Type	Packing
1 A	3	750 V DC	C	114973	Ex9BD-JC 3P C1A EU	1/4/36
1.6 A	3	750 V DC	C	114974	Ex9BD-JC 3P C1.6A EU	1/4/36
2 A	3	750 V DC	C	114975	Ex9BD-JC 3P C2A EU	1/4/36
3 A	3	750 V DC	C	114976	Ex9BD-JC 3P C3A EU	1/4/36
4 A	3	750 V DC	C	114977	Ex9BD-JC 3P C4A EU	1/4/36
6 A	3	750 V DC	C	114978	Ex9BD-JC 3P C6A EU	1/4/36
8 A	3	750 V DC	C	114979	Ex9BD-JC 3P C8A EU	1/4/36
10 A	3	750 V DC	C	114980	Ex9BD-JC 3P C10A EU	1/4/36
13 A	3	750 V DC	C	114981	Ex9BD-JC 3P C13A EU	1/4/36
16 A	3	750 V DC	C	114982	Ex9BD-JC 3P C16A EU	1/4/36
20 A	3	750 V DC	C	114983	Ex9BD-JC 3P C20A EU	1/4/36
25 A	3	750 V DC	C	114984	Ex9BD-JC 3P C25A EU	1/4/36
32 A	3	750 V DC	C	114985	Ex9BD-JC 3P C32A EU	1/4/36
40 A	3	750 V DC	C	114986	Ex9BD-JC 3P C40A EU	1/4/36
50 A	3	750 V DC	C	114987	Ex9BD-JC 3P C50A EU	1/4/36
63 A	3	750 V DC	C	114988	Ex9BD-JC 3P C63A EU	1/4/36

DC MCBs for Railway **Ex9BD-JC**

C-Characteristic, 4-pole, DC, 10 kA



Rated current	Poles	Rated op. voltage	Char.	Article No.	Type	Packing
1 A	4	1000 V DC	C	115021	Ex9BD-JC 4P C1A EU	1/3/27
1.6 A	4	1000 V DC	C	115022	Ex9BD-JC 4P C1.6A EU	1/3/27
2 A	4	1000 V DC	C	115023	Ex9BD-JC 4P C2A EU	1/3/27
3 A	4	1000 V DC	C	115024	Ex9BD-JC 4P C3A EU	1/3/27
4 A	4	1000 V DC	C	115025	Ex9BD-JC 4P C4A EU	1/3/27
6 A	4	1000 V DC	C	115026	Ex9BD-JC 4P C6A EU	1/3/27
8 A	4	1000 V DC	C	115027	Ex9BD-JC 4P C8A EU	1/3/27
10 A	4	1000 V DC	C	115028	Ex9BD-JC 4P C10A EU	1/3/27
13 A	4	1000 V DC	C	115029	Ex9BD-JC 4P C13A EU	1/3/27
16 A	4	1000 V DC	C	115030	Ex9BD-JC 4P C16A EU	1/3/27
20 A	4	1000 V DC	C	115031	Ex9BD-JC 4P C20A EU	1/3/27
25 A	4	1000 V DC	C	115032	Ex9BD-JC 4P C25A EU	1/3/27
32 A	4	1000 V DC	C	115033	Ex9BD-JC 4P C32A EU	1/3/27
40 A	4	1000 V DC	C	115034	Ex9BD-JC 4P C40A EU	1/3/27
50 A	4	1000 V DC	C	115035	Ex9BD-JC 4P C50A EU	1/3/27
63 A	4	1000 V DC	C	115036	Ex9BD-JC 4P C63A EU	1/3/27

DC MCBs for Railway Ex9BD-JC

K-Characteristic, 1-pole, DC, 10 kA



Rated current	Poles	Rated op. voltage	Char.	Article No.	Type	Packing
1 A	1	250V DC	K	114893	Ex9BD-JC 1P K1A EU	1/12/108
1.6 A	1	250V DC	K	114894	Ex9BD-JC 1P K1.6A EU	1/12/108
2 A	1	250V DC	K	114895	Ex9BD-JC 1P K2A EU	1/12/108
3 A	1	250V DC	K	114896	Ex9BD-JC 1P K3A EU	1/12/108
4 A	1	250V DC	K	114897	Ex9BD-JC 1P K4A EU	1/12/108
6 A	1	250V DC	K	114898	Ex9BD-JC 1P K6A EU	1/12/108
8 A	1	250V DC	K	114899	Ex9BD-JC 1P K8A EU	1/12/108
10 A	1	250V DC	K	114900	Ex9BD-JC 1P K10A EU	1/12/108
13 A	1	250V DC	K	114901	Ex9BD-JC 1P K13A EU	1/12/108
16 A	1	250V DC	K	114902	Ex9BD-JC 1P K16A EU	1/12/108
20 A	1	250V DC	K	114903	Ex9BD-JC 1P K20A EU	1/12/108
25 A	1	250V DC	K	114904	Ex9BD-JC 1P K25A EU	1/12/108
32 A	1	250V DC	K	114905	Ex9BD-JC 1P K32A EU	1/12/108
40 A	1	250V DC	K	114906	Ex9BD-JC 1P K40A EU	1/12/108
50 A	1	250V DC	K	114907	Ex9BD-JC 1P K50A EU	1/12/108
63 A	1	250V DC	K	114908	Ex9BD-JC 1P K63A EU	1/12/108

K-Characteristic, 2-pole, DC, 10 kA



Rated current	Poles	Rated op. voltage	Char.	Article No.	Type	Packing
1 A	2	500 V DC	K	114941	Ex9BD-JC 2P K1A EU	1/6/54
1.6 A	2	500 V DC	K	114942	Ex9BD-JC 2P K1.6A EU	1/6/54
2 A	2	500 V DC	K	114943	Ex9BD-JC 2P K2A EU	1/6/54
3 A	2	500 V DC	K	114944	Ex9BD-JC 2P K3A EU	1/6/54
4 A	2	500 V DC	K	114945	Ex9BD-JC 2P K4A EU	1/6/54
6 A	2	500 V DC	K	114946	Ex9BD-JC 2P K6A EU	1/6/54
8 A	2	500 V DC	K	114947	Ex9BD-JC 2P K8A EU	1/6/54
10 A	2	500 V DC	K	114948	Ex9BD-JC 2P K10A EU	1/6/54
13 A	2	500 V DC	K	114949	Ex9BD-JC 2P K13A EU	1/6/54
16 A	2	500 V DC	K	114950	Ex9BD-JC 2P K16A EU	1/6/54
20 A	2	500 V DC	K	114951	Ex9BD-JC 2P K20A EU	1/6/54
25 A	2	500 V DC	K	114952	Ex9BD-JC 2P K25A EU	1/6/54
32 A	2	500 V DC	K	114953	Ex9BD-JC 2P K32A EU	1/6/54
40 A	2	500 V DC	K	114954	Ex9BD-JC 2P K40A EU	1/6/54
50 A	2	500 V DC	K	114955	Ex9BD-JC 2P K50A EU	1/6/54
63 A	2	500 V DC	K	114956	Ex9BD-JC 2P K63A EU	1/6/54

K-Characteristic, 3-pole, DC, 10 kA



Rated current	Poles	Rated op. voltage	Char.	Article No.	Type	Packing
1 A	3	750 V DC	K	114989	Ex9BD-JC 3P K1A EU	1/4/36
1.6 A	3	750 V DC	K	114990	Ex9BD-JC 3P K1.6A EU	1/4/36
2 A	3	750 V DC	K	114991	Ex9BD-JC 3P K2A EU	1/4/36
3 A	3	750 V DC	K	114992	Ex9BD-JC 3P K3A EU	1/4/36
4 A	3	750 V DC	K	114993	Ex9BD-JC 3P K4A EU	1/4/36
6 A	3	750 V DC	K	114994	Ex9BD-JC 3P K6A EU	1/4/36
8 A	3	750 V DC	K	114995	Ex9BD-JC 3P K8A EU	1/4/36
10 A	3	750 V DC	K	114996	Ex9BD-JC 3P K10A EU	1/4/36
13 A	3	750 V DC	K	114997	Ex9BD-JC 3P K13A EU	1/4/36
16 A	3	750 V DC	K	114998	Ex9BD-JC 3P K16A EU	1/4/36
20 A	3	750 V DC	K	114999	Ex9BD-JC 3P K20A EU	1/4/36
25 A	3	750 V DC	K	115000	Ex9BD-JC 3P K25A EU	1/4/36
32 A	3	750 V DC	K	115001	Ex9BD-JC 3P K32A EU	1/4/36
40 A	3	750 V DC	K	115002	Ex9BD-JC 3P K40A EU	1/4/36
50 A	3	750 V DC	K	115003	Ex9BD-JC 3P K50A EU	1/4/36
63 A	3	750 V DC	K	115004	Ex9BD-JC 3P K63A EU	1/4/36

DC MCBs for Railway **Ex9BD-JC**

K-Characteristic, 4-pole, DC, 10 kA



Rated current	Poles	Rated op. voltage	Char.	Article No.	Type	Packing
1 A	4	1000 V DC	K	115037	Ex9BD-JC 4P K1A EU	1/3/27
1.6 A	4	1000 V DC	K	115038	Ex9BD-JC 4P K1.6A EU	1/3/27
2 A	4	1000 V DC	K	115039	Ex9BD-JC 4P K2A EU	1/3/27
3 A	4	1000 V DC	K	115040	Ex9BD-JC 4P K3A EU	1/3/27
4 A	4	1000 V DC	K	115041	Ex9BD-JC 4P K4A EU	1/3/27
6 A	4	1000 V DC	K	115042	Ex9BD-JC 4P K6A EU	1/3/27
8 A	4	1000 V DC	K	115043	Ex9BD-JC 4P K8A EU	1/3/27
10 A	4	1000 V DC	K	115044	Ex9BD-JC 4P K10A EU	1/3/27
13 A	4	1000 V DC	K	115045	Ex9BD-JC 4P K13A EU	1/3/27
16 A	4	1000 V DC	K	115046	Ex9BD-JC 4P K16A EU	1/3/27
20 A	4	1000 V DC	K	115047	Ex9BD-JC 4P K20A EU	1/3/27
25 A	4	1000 V DC	K	115048	Ex9BD-JC 4P K25A EU	1/3/27
32 A	4	1000 V DC	K	115049	Ex9BD-JC 4P K32A EU	1/3/27
40 A	4	1000 V DC	K	115050	Ex9BD-JC 4P K40A EU	1/3/27
50 A	4	1000 V DC	K	115051	Ex9BD-JC 4P K50A EU	1/3/27
63 A	4	1000 V DC	K	115052	Ex9BD-JC 4P K63A EU	1/3/27

AC MCBs for Railway Ex9B-JC

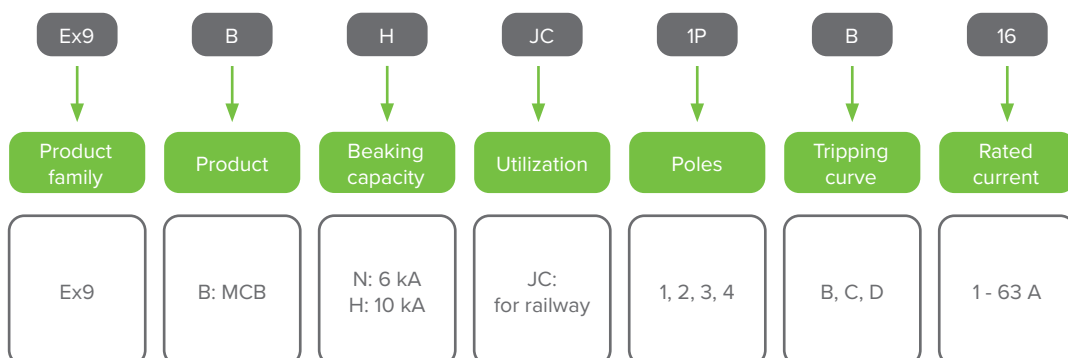


- Miniature Circuit Breakers for Railway according to IEC/EN 60974-2, EN 45545 (fire protection on railway vehicles) and IEC/EN 61373 (rolling stock equipment - shock and vibration tests)
- AC version
- Ultimate Breaking Capacity I_{cu} 6 kA or 10 kA
- 1 up to 4-pole versions
- Tripping characteristics B, C, D
- Rated current up to 63 A
- Rated operational voltage 230/400 V AC

AC miniature circuit breakers Ex9B-JC are specifically designed for railway applications, meeting the stringent requirements of IEC/EN 60974-2, EN 45545 (fire protection on railway vehicles), and IEC/EN 61373 (rolling stock equipment - shock and vibration tests). Ex9B-JC version offer versatility across different railway systems. The AC version provides ultimate breaking capacities of 6 kA for Ex9BN-JC and 10 kA for Ex9BH-JC. Both versions are available with characteristics B, C, and D, ensuring reliable performance under diverse conditions.

These circuit breakers can be equipped with accessories AX33 auxiliary contacts, AL33 signal contacts and SHT33 shunt trip release. This flexibility allows for customized configurations tailored to specific application needs, ensuring comprehensive protection and monitoring in critical railway environments.

Type Key

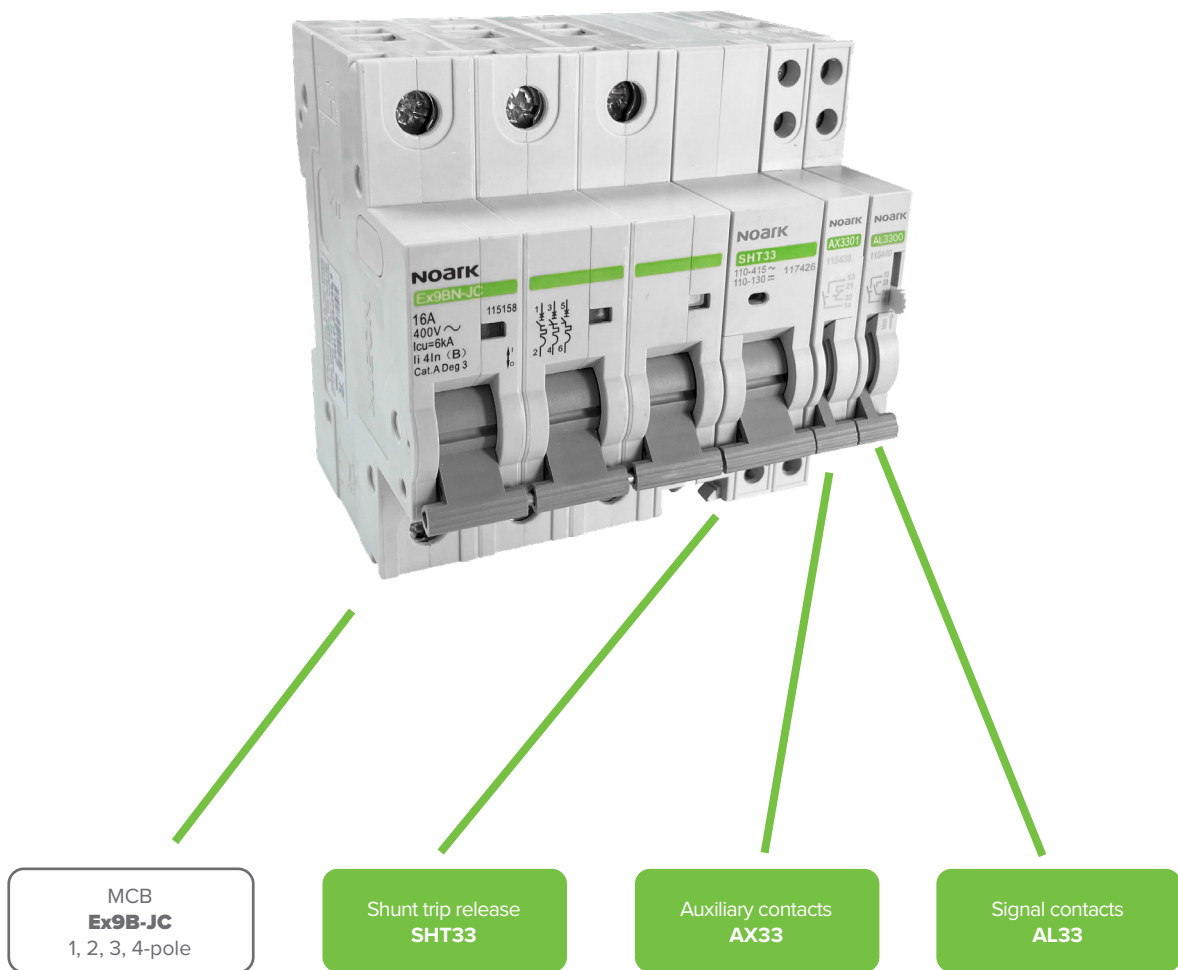


Certification marks



AC MCBs for Railway **Ex9B-JC**

Accessories



Auxiliary contacts AX33

Signal contacts AL33

Shunt trip release

AC MCBs for Railway **Ex9BN-JC**

B-Characteristic, 1-pole, AC, 6 kA



Rated current	Poles	Char.	Article No.	Type	Packing
1 A	1	B	115053	Ex9BN-JC 1P B1A EU	1/12/108
1.6 A	1	B	115054	Ex9BN-JC 1P B1.6A EU	1/12/108
2 A	1	B	115055	Ex9BN-JC 1P B2A EU	1/12/108
3 A	1	B	115056	Ex9BN-JC 1P B3A EU	1/12/108
4 A	1	B	115057	Ex9BN-JC 1P B4A EU	1/12/108
6 A	1	B	115058	Ex9BN-JC 1P B6A EU	1/12/108
8 A	1	B	115059	Ex9BN-JC 1P B8A EU	1/12/108
10 A	1	B	115060	Ex9BN-JC 1P B10A EU	1/12/108
13 A	1	B	115061	Ex9BN-JC 1P B13A EU	1/12/108
16 A	1	B	115062	Ex9BN-JC 1P B16A EU	1/12/108
20 A	1	B	115063	Ex9BN-JC 1P B20A EU	1/12/108
25 A	1	B	115064	Ex9BN-JC 1P B25A EU	1/12/108
32 A	1	B	115065	Ex9BN-JC 1P B32A EU	1/12/108
40 A	1	B	115066	Ex9BN-JC 1P B40A EU	1/12/108
50 A	1	B	115067	Ex9BN-JC 1P B50A EU	1/12/108
63 A	1	B	115068	Ex9BN-JC 1P B63A EU	1/12/108

B-Characteristic, 2-pole, AC, 6 kA



Rated current	Poles	Char.	Article No.	Type	Packing
1 A	2	B	115101	Ex9BN-JC 2P B1A EU	1/6/54
1.6 A	2	B	115102	Ex9BN-JC 2P B1.6A EU	1/6/54
2 A	2	B	115103	Ex9BN-JC 2P B2A EU	1/6/54
3 A	2	B	115104	Ex9BN-JC 2P B3A EU	1/6/54
4 A	2	B	115105	Ex9BN-JC 2P B4A EU	1/6/54
6 A	2	B	115106	Ex9BN-JC 2P B6A EU	1/6/54
8 A	2	B	115107	Ex9BN-JC 2P B8A EU	1/6/54
10 A	2	B	115108	Ex9BN-JC 2P B10A EU	1/6/54
13 A	2	B	115109	Ex9BN-JC 2P B13A EU	1/6/54
16 A	2	B	115110	Ex9BN-JC 2P B16A EU	1/6/54
20 A	2	B	115111	Ex9BN-JC 2P B20A EU	1/6/54
25 A	2	B	115112	Ex9BN-JC 2P B25A EU	1/6/54
32 A	2	B	115113	Ex9BN-JC 2P B32A EU	1/6/54
40 A	2	B	115114	Ex9BN-JC 2P B40A EU	1/6/54
50 A	2	B	115115	Ex9BN-JC 2P B50A EU	1/6/54
63 A	2	B	115116	Ex9BN-JC 2P B63A EU	1/6/54

B-Characteristic, 3-pole, AC, 6 kA



Rated current	Poles	Char.	Article No.	Type	Packing
1 A	3	B	115149	Ex9BN-JC 3P B1A EU	1/4/36
1.6 A	3	B	115150	Ex9BN-JC 3P B1.6A EU	1/4/36
2 A	3	B	115151	Ex9BN-JC 3P B2A EU	1/4/36
3 A	3	B	115152	Ex9BN-JC 3P B3A EU	1/4/36
4 A	3	B	115153	Ex9BN-JC 3P B4A EU	1/4/36
6 A	3	B	115154	Ex9BN-JC 3P B6A EU	1/4/36
8 A	3	B	115155	Ex9BN-JC 3P B8A EU	1/4/36
10 A	3	B	115156	Ex9BN-JC 3P B10A EU	1/4/36
13 A	3	B	115157	Ex9BN-JC 3P B13A EU	1/4/36
16 A	3	B	115158	Ex9BN-JC 3P B16A EU	1/4/36
20 A	3	B	115159	Ex9BN-JC 3P B20A EU	1/4/36
25 A	3	B	115160	Ex9BN-JC 3P B25A EU	1/4/36
32 A	3	B	115161	Ex9BN-JC 3P B32A EU	1/4/36
40 A	3	B	115162	Ex9BN-JC 3P B40A EU	1/4/36
50 A	3	B	115163	Ex9BN-JC 3P B50A EU	1/4/36
63 A	3	B	115164	Ex9BN-JC 3P B63A EU	1/4/36

AC MCBs for Railway **Ex9BN-JC**

B-Characteristic, 4-pole, AC, 6 kA



Rated current	Poles	Char.	Article No.	Type	Packing
1 A	4	B	115197	Ex9BN-JC 4P B1A EU	1/3/27
1.6 A	4	B	115198	Ex9BN-JC 4P B1.6A EU	1/3/27
2 A	4	B	115199	Ex9BN-JC 4P B2A EU	1/3/27
3 A	4	B	115200	Ex9BN-JC 4P B3A EU	1/3/27
4 A	4	B	115201	Ex9BN-JC 4P B4A EU	1/3/27
6 A	4	B	115202	Ex9BN-JC 4P B6A EU	1/3/27
8 A	4	B	115203	Ex9BN-JC 4P B8A EU	1/3/27
10 A	4	B	115204	Ex9BN-JC 4P B10A EU	1/3/27
13 A	4	B	115205	Ex9BN-JC 4P B13A EU	1/3/27
16 A	4	B	115206	Ex9BN-JC 4P B16A EU	1/3/27
20 A	4	B	115207	Ex9BN-JC 4P B20A EU	1/3/27
25 A	4	B	115208	Ex9BN-JC 4P B25A EU	1/3/27
32 A	4	B	115209	Ex9BN-JC 4P B32A EU	1/3/27
40 A	4	B	115210	Ex9BN-JC 4P B40A EU	1/3/27
50 A	4	B	115211	Ex9BN-JC 4P B50A EU	1/3/27
63 A	4	B	115212	Ex9BN-JC 4P B63A EU	1/3/27

AC MCBs for Railway **Ex9BN-JC**

C-Characteristic, 1-pole, AC, 6 kA



Rated current	Poles	Char.	Article No.	Type	Packing
1 A	1	C	115069	Ex9BN-JC 1P C1A EU	1/12/108
1.6 A	1	C	115070	Ex9BN-JC 1P C1.6A EU	1/12/108
2 A	1	C	115071	Ex9BN-JC 1P C2A EU	1/12/108
3 A	1	C	115072	Ex9BN-JC 1P C3A EU	1/12/108
4 A	1	C	115073	Ex9BN-JC 1P C4A EU	1/12/108
6 A	1	C	115074	Ex9BN-JC 1P C6A EU	1/12/108
8 A	1	C	115075	Ex9BN-JC 1P C8A EU	1/12/108
10 A	1	C	115076	Ex9BN-JC 1P C10A EU	1/12/108
13 A	1	C	115077	Ex9BN-JC 1P C13A EU	1/12/108
16 A	1	C	115078	Ex9BN-JC 1P C16A EU	1/12/108
20 A	1	C	115079	Ex9BN-JC 1P C20A EU	1/12/108
25 A	1	C	115080	Ex9BN-JC 1P C25A EU	1/12/108
32 A	1	C	115081	Ex9BN-JC 1P C32A EU	1/12/108
40 A	1	C	115082	Ex9BN-JC 1P C40A EU	1/12/108
50 A	1	C	115083	Ex9BN-JC 1P C50A EU	1/12/108
63 A	1	C	115084	Ex9BN-JC 1P C63A EU	1/12/108

C-Characteristic, 2-pole, AC, 6 kA



Rated current	Poles	Char.	Article No.	Type	Packing
1 A	2	C	115117	Ex9BN-JC 2P C1A EU	1/6/54
1.6 A	2	C	115118	Ex9BN-JC 2P C1.6A EU	1/6/54
2 A	2	C	115119	Ex9BN-JC 2P C2A EU	1/6/54
3 A	2	C	115120	Ex9BN-JC 2P C3A EU	1/6/54
4 A	2	C	115121	Ex9BN-JC 2P C4A EU	1/6/54
6 A	2	C	115122	Ex9BN-JC 2P C6A EU	1/6/54
8 A	2	C	115123	Ex9BN-JC 2P C8A EU	1/6/54
10 A	2	C	115124	Ex9BN-JC 2P C10A EU	1/6/54
13 A	2	C	115125	Ex9BN-JC 2P C13A EU	1/6/54
16 A	2	C	115126	Ex9BN-JC 2P C16A EU	1/6/54
20 A	2	C	115127	Ex9BN-JC 2P C20A EU	1/6/54
25 A	2	C	115128	Ex9BN-JC 2P C25A EU	1/6/54
32 A	2	C	115129	Ex9BN-JC 2P C32A EU	1/6/54
40 A	2	C	115130	Ex9BN-JC 2P C40A EU	1/6/54
50 A	2	C	115131	Ex9BN-JC 2P C50A EU	1/6/54
63 A	2	C	115132	Ex9BN-JC 2P C63A EU	1/6/54

C-Characteristic, 3-pole, AC, 6 kA



Rated current	Poles	Char.	Article No.	Type	Packing
1 A	3	C	115165	Ex9BN-JC 3P C1A EU	1/4/36
1.6 A	3	C	115166	Ex9BN-JC 3P C1.6A EU	1/4/36
2 A	3	C	115167	Ex9BN-JC 3P C2A EU	1/4/36
3 A	3	C	115168	Ex9BN-JC 3P C3A EU	1/4/36
4 A	3	C	115169	Ex9BN-JC 3P C4A EU	1/4/36
6 A	3	C	115170	Ex9BN-JC 3P C6A EU	1/4/36
8 A	3	C	115171	Ex9BN-JC 3P C8A EU	1/4/36
10 A	3	C	115172	Ex9BN-JC 3P C10A EU	1/4/36
13 A	3	C	115173	Ex9BN-JC 3P C13A EU	1/4/36
16 A	3	C	115174	Ex9BN-JC 3P C16A EU	1/4/36
20 A	3	C	115175	Ex9BN-JC 3P C20A EU	1/4/36
25 A	3	C	115176	Ex9BN-JC 3P C25A EU	1/4/36
32 A	3	C	115177	Ex9BN-JC 3P C32A EU	1/4/36
40 A	3	C	115178	Ex9BN-JC 3P C40A EU	1/4/36
50 A	3	C	115179	Ex9BN-JC 3P C50A EU	1/4/36
63 A	3	C	115180	Ex9BN-JC 3P C63A EU	1/4/36

AC MCBs for Railway **Ex9BN-JC**

C-Characteristic, 4-pole, AC, 6 kA



Rated current	Poles	Char.	Article No.	Type	Packing
1 A	4	C	115213	Ex9BN-JC 4P C1A EU	1/3/27
1.6 A	4	C	115214	Ex9BN-JC 4P C1.6A EU	1/3/27
2 A	4	C	115215	Ex9BN-JC 4P C2A EU	1/3/27
3 A	4	C	115216	Ex9BN-JC 4P C3A EU	1/3/27
4 A	4	C	115217	Ex9BN-JC 4P C4A EU	1/3/27
6 A	4	C	115218	Ex9BN-JC 4P C6A EU	1/3/27
8 A	4	C	115219	Ex9BN-JC 4P C8A EU	1/3/27
10 A	4	C	115220	Ex9BN-JC 4P C10A EU	1/3/27
13 A	4	C	115221	Ex9BN-JC 4P C13A EU	1/3/27
16 A	4	C	115222	Ex9BN-JC 4P C16A EU	1/3/27
20 A	4	C	115223	Ex9BN-JC 4P C20A EU	1/3/27
25 A	4	C	115224	Ex9BN-JC 4P C25A EU	1/3/27
32 A	4	C	115225	Ex9BN-JC 4P C32A EU	1/3/27
40 A	4	C	115226	Ex9BN-JC 4P C40A EU	1/3/27
50 A	4	C	115227	Ex9BN-JC 4P C50A EU	1/3/27
63 A	4	C	115228	Ex9BN-JC 4P C63A EU	1/3/27

AC MCBs for Railway **Ex9BN-JC**

D-Characteristic, 1-pole, AC, 6 kA



Rated current	Poles	Char.	Article No.	Type	Packing
1 A	1	D	115085	Ex9BN-JC 1P D1A EU	1/12/108
1.6 A	1	D	115086	Ex9BN-JC 1P D1.6A EU	1/12/108
2 A	1	D	115087	Ex9BN-JC 1P D2A EU	1/12/108
3 A	1	D	115088	Ex9BN-JC 1P D3A EU	1/12/108
4 A	1	D	115089	Ex9BN-JC 1P D4A EU	1/12/108
6 A	1	D	115090	Ex9BN-JC 1P D6A EU	1/12/108
8 A	1	D	115091	Ex9BN-JC 1P D8A EU	1/12/108
10 A	1	D	115092	Ex9BN-JC 1P D10A EU	1/12/108
13 A	1	D	115093	Ex9BN-JC 1P D13A EU	1/12/108
16 A	1	D	115094	Ex9BN-JC 1P D16A EU	1/12/108
20 A	1	D	115095	Ex9BN-JC 1P D20A EU	1/12/108
25 A	1	D	115096	Ex9BN-JC 1P D25A EU	1/12/108
32 A	1	D	115097	Ex9BN-JC 1P D32A EU	1/12/108
40 A	1	D	115098	Ex9BN-JC 1P D40A EU	1/12/108
50 A	1	D	115099	Ex9BN-JC 1P D50A EU	1/12/108
63 A	1	D	115100	Ex9BN-JC 1P D63A EU	1/12/108

D-Characteristic, 2-pole, AC, 6 kA



Rated current	Poles	Char.	Article No.	Type	Packing
1 A	2	D	115133	Ex9BN-JC 2P D1A EU	1/6/54
1.6 A	2	D	115134	Ex9BN-JC 2P D1.6A EU	1/6/54
2 A	2	D	115135	Ex9BN-JC 2P D2A EU	1/6/54
3 A	2	D	115136	Ex9BN-JC 2P D3A EU	1/6/54
4 A	2	D	115137	Ex9BN-JC 2P D4A EU	1/6/54
6 A	2	D	115138	Ex9BN-JC 2P D6A EU	1/6/54
8 A	2	D	115139	Ex9BN-JC 2P D8A EU	1/6/54
10 A	2	D	115140	Ex9BN-JC 2P D10A EU	1/6/54
13 A	2	D	115141	Ex9BN-JC 2P D13A EU	1/6/54
16 A	2	D	115142	Ex9BN-JC 2P D16A EU	1/6/54
20 A	2	D	115143	Ex9BN-JC 2P D20A EU	1/6/54
25 A	2	D	115144	Ex9BN-JC 2P D25A EU	1/6/54
32 A	2	D	115145	Ex9BN-JC 2P D32A EU	1/6/54
40 A	2	D	115146	Ex9BN-JC 2P D40A EU	1/6/54
50 A	2	D	115147	Ex9BN-JC 2P D50A EU	1/6/54
63 A	2	D	115148	Ex9BN-JC 2P D63A EU	1/6/54

D-Characteristic, 3-pole, AC, 6 kA



Rated current	Poles	Char.	Article No.	Type	Packing
1 A	3	D	115181	Ex9BN-JC 3P D1A EU	1/4/36
1.6 A	3	D	115182	Ex9BN-JC 3P D1.6A EU	1/4/36
2 A	3	D	115183	Ex9BN-JC 3P D2A EU	1/4/36
3 A	3	D	115184	Ex9BN-JC 3P D3A EU	1/4/36
4 A	3	D	115185	Ex9BN-JC 3P D4A EU	1/4/36
6 A	3	D	115186	Ex9BN-JC 3P D6A EU	1/4/36
8 A	3	D	115187	Ex9BN-JC 3P D8A EU	1/4/36
10 A	3	D	115188	Ex9BN-JC 3P D10A EU	1/4/36
13 A	3	D	115189	Ex9BN-JC 3P D13A EU	1/4/36
16 A	3	D	115190	Ex9BN-JC 3P D16A EU	1/4/36
20 A	3	D	115191	Ex9BN-JC 3P D20A EU	1/4/36
25 A	3	D	115192	Ex9BN-JC 3P D25A EU	1/4/36
32 A	3	D	115193	Ex9BN-JC 3P D32A EU	1/4/36
40 A	3	D	115194	Ex9BN-JC 3P D40A EU	1/4/36
50 A	3	D	115195	Ex9BN-JC 3P D50A EU	1/4/36
63 A	3	D	115196	Ex9BN-JC 3P D63A EU	1/4/36

AC MCBs for Railway **Ex9BN-JC**

D-Characteristic, 4-pole, AC, 6 kA



Rated current	Poles	Char.	Article No.	Type	Packing
1 A	4	D	115229	Ex9BN-JC 4P D1A EU	1/3/27
1.6 A	4	D	115230	Ex9BN-JC 4P D1.6A EU	1/3/27
2 A	4	D	115231	Ex9BN-JC 4P D2A EU	1/3/27
3 A	4	D	115232	Ex9BN-JC 4P D3A EU	1/3/27
4 A	4	D	115233	Ex9BN-JC 4P D4A EU	1/3/27
6 A	4	D	115234	Ex9BN-JC 4P D6A EU	1/3/27
8 A	4	D	115235	Ex9BN-JC 4P D8A EU	1/3/27
10 A	4	D	115236	Ex9BN-JC 4P D10A EU	1/3/27
13 A	4	D	115237	Ex9BN-JC 4P D13A EU	1/3/27
16 A	4	D	115238	Ex9BN-JC 4P D16A EU	1/3/27
20 A	4	D	115239	Ex9BN-JC 4P D20A EU	1/3/27
25 A	4	D	115240	Ex9BN-JC 4P D25A EU	1/3/27
32 A	4	D	115241	Ex9BN-JC 4P D32A EU	1/3/27
40 A	4	D	115242	Ex9BN-JC 4P D40A EU	1/3/27
50 A	4	D	115243	Ex9BN-JC 4P D50A EU	1/3/27
63 A	4	D	115244	Ex9BN-JC 4P D63A EU	1/3/27

AC MCBs for Railway **Ex9BH-JC**

B-Characteristic, 1-pole, AC, 10 kA



Rated current	Poles	Char.	Article No.	Type	Packing
1 A	1	B	115245	Ex9BH-JC 1P B1A EU	1/12/108
1.6 A	1	B	115246	Ex9BH-JC 1P B1.6A EU	1/12/108
2 A	1	B	115247	Ex9BH-JC 1P B2A EU	1/12/108
3 A	1	B	115248	Ex9BH-JC 1P B3A EU	1/12/108
4 A	1	B	115249	Ex9BH-JC 1P B4A EU	1/12/108
6 A	1	B	115250	Ex9BH-JC 1P B6A EU	1/12/108
8 A	1	B	115251	Ex9BH-JC 1P B8A EU	1/12/108
10 A	1	B	115252	Ex9BH-JC 1P B10A EU	1/12/108
13 A	1	B	115253	Ex9BH-JC 1P B13A EU	1/12/108
16 A	1	B	115254	Ex9BH-JC 1P B16A EU	1/12/108
20 A	1	B	115255	Ex9BH-JC 1P B20A EU	1/12/108
25 A	1	B	115256	Ex9BH-JC 1P B25A EU	1/12/108
32 A	1	B	115257	Ex9BH-JC 1P B32A EU	1/12/108
40 A	1	B	115258	Ex9BH-JC 1P B40A EU	1/12/108
50 A	1	B	115259	Ex9BH-JC 1P B50A EU	1/12/108
63 A	1	B	115260	Ex9BH-JC 1P B63A EU	1/12/108

B-Characteristic, 2-pole, AC, 10 kA



Rated current	Poles	Char.	Article No.	Type	Packing
1 A	2	B	115293	Ex9BH-JC 2P B1A EU	1/6/54
1.6 A	2	B	115294	Ex9BH-JC 2P B1.6A EU	1/6/54
2 A	2	B	115295	Ex9BH-JC 2P B2A EU	1/6/54
3 A	2	B	115296	Ex9BH-JC 2P B3A EU	1/6/54
4 A	2	B	115297	Ex9BH-JC 2P B4A EU	1/6/54
6 A	2	B	115298	Ex9BH-JC 2P B6A EU	1/6/54
8 A	2	B	115299	Ex9BH-JC 2P B8A EU	1/6/54
10 A	2	B	115300	Ex9BH-JC 2P B10A EU	1/6/54
13 A	2	B	115301	Ex9BH-JC 2P B13A EU	1/6/54
16 A	2	B	115302	Ex9BH-JC 2P B16A EU	1/6/54
20 A	2	B	115303	Ex9BH-JC 2P B20A EU	1/6/54
25 A	2	B	115304	Ex9BH-JC 2P B25A EU	1/6/54
32 A	2	B	115305	Ex9BH-JC 2P B32A EU	1/6/54
40 A	2	B	115306	Ex9BH-JC 2P B40A EU	1/6/54
50 A	2	B	115307	Ex9BH-JC 2P B50A EU	1/6/54
63 A	2	B	115308	Ex9BH-JC 2P B63A EU	1/6/54

B-Characteristic, 3-pole, AC, 10 kA



Rated current	Poles	Char.	Article No.	Type	Packing
1 A	3	B	115341	Ex9BH-JC 3P B1A EU	1/4/36
1.6 A	3	B	115342	Ex9BH-JC 3P B1.6A EU	1/4/36
2 A	3	B	115343	Ex9BH-JC 3P B2A EU	1/4/36
3 A	3	B	115344	Ex9BH-JC 3P B3A EU	1/4/36
4 A	3	B	115345	Ex9BH-JC 3P B4A EU	1/4/36
6 A	3	B	115346	Ex9BH-JC 3P B6A EU	1/4/36
8 A	3	B	115347	Ex9BH-JC 3P B8A EU	1/4/36
10 A	3	B	115348	Ex9BH-JC 3P B10A EU	1/4/36
13 A	3	B	115349	Ex9BH-JC 3P B13A EU	1/4/36
16 A	3	B	115350	Ex9BH-JC 3P B16A EU	1/4/36
20 A	3	B	115351	Ex9BH-JC 3P B20A EU	1/4/36
25 A	3	B	115352	Ex9BH-JC 3P B25A EU	1/4/36
32 A	3	B	115353	Ex9BH-JC 3P B32A EU	1/4/36
40 A	3	B	115354	Ex9BH-JC 3P B40A EU	1/4/36
50 A	3	B	115355	Ex9BH-JC 3P B50A EU	1/4/36
63 A	3	B	115356	Ex9BH-JC 3P B63A EU	1/4/36

AC MCBs for Railway **Ex9BH-JC**

B-Characteristic, 4-pole, AC, 10 kA



Rated current	Poles	Char.	Article No.	Type	Packing
1 A	4	B	115389	Ex9BH-JC 4P B1A EU	1/3/27
1.6 A	4	B	115390	Ex9BH-JC 4P B1.6A EU	1/3/27
2 A	4	B	115391	Ex9BH-JC 4P B2A EU	1/3/27
3 A	4	B	115392	Ex9BH-JC 4P B3A EU	1/3/27
4 A	4	B	115393	Ex9BH-JC 4P B4A EU	1/3/27
6 A	4	B	115394	Ex9BH-JC 4P B6A EU	1/3/27
8 A	4	B	115395	Ex9BH-JC 4P B8A EU	1/3/27
10 A	4	B	115396	Ex9BH-JC 4P B10A EU	1/3/27
13 A	4	B	115397	Ex9BH-JC 4P B13A EU	1/3/27
16 A	4	B	115398	Ex9BH-JC 4P B16A EU	1/3/27
20 A	4	B	115399	Ex9BH-JC 4P B20A EU	1/3/27
25 A	4	B	115400	Ex9BH-JC 4P B25A EU	1/3/27
32 A	4	B	115401	Ex9BH-JC 4P B32A EU	1/3/27
40 A	4	B	115402	Ex9BH-JC 4P B40A EU	1/3/27
50 A	4	B	115403	Ex9BH-JC 4P B50A EU	1/3/27
63 A	4	B	115404	Ex9BH-JC 4P B63A EU	1/3/27

AC MCBs for Railway **Ex9BH-JC**

C-Characteristic, 1-pole, AC, 10 kA



Rated current	Poles	Char.	Article No.	Type	Packing
1 A	1	C	115261	Ex9BH-JC 1P C1A EU	1/12/108
1.6 A	1	C	115262	Ex9BH-JC 1P C1.6A EU	1/12/108
2 A	1	C	115263	Ex9BH-JC 1P C2A EU	1/12/108
3 A	1	C	115264	Ex9BH-JC 1P C3A EU	1/12/108
4 A	1	C	115265	Ex9BH-JC 1P C4A EU	1/12/108
6 A	1	C	115266	Ex9BH-JC 1P C6A EU	1/12/108
8 A	1	C	115267	Ex9BH-JC 1P C8A EU	1/12/108
10 A	1	C	115268	Ex9BH-JC 1P C10A EU	1/12/108
13 A	1	C	115269	Ex9BH-JC 1P C13A EU	1/12/108
16 A	1	C	115270	Ex9BH-JC 1P C16A EU	1/12/108
20 A	1	C	115271	Ex9BH-JC 1P C20A EU	1/12/108
25 A	1	C	115272	Ex9BH-JC 1P C25A EU	1/12/108
32 A	1	C	115273	Ex9BH-JC 1P C32A EU	1/12/108
40 A	1	C	115274	Ex9BH-JC 1P C40A EU	1/12/108
50 A	1	C	115275	Ex9BH-JC 1P C50A EU	1/12/108
63 A	1	C	115276	Ex9BH-JC 1P C63A EU	1/12/108

C-Characteristic, 2-pole, AC, 10 kA



Rated current	Poles	Char.	Article No.	Type	Packing
1 A	2	C	115309	Ex9BH-JC 2P C1A EU	1/6/54
1.6 A	2	C	115310	Ex9BH-JC 2P C1.6A EU	1/6/54
2 A	2	C	115311	Ex9BH-JC 2P C2A EU	1/6/54
3 A	2	C	115312	Ex9BH-JC 2P C3A EU	1/6/54
4 A	2	C	115313	Ex9BH-JC 2P C4A EU	1/6/54
6 A	2	C	115314	Ex9BH-JC 2P C6A EU	1/6/54
8 A	2	C	115315	Ex9BH-JC 2P C8A EU	1/6/54
10 A	2	C	115316	Ex9BH-JC 2P C10A EU	1/6/54
13 A	2	C	115317	Ex9BH-JC 2P C13A EU	1/6/54
16 A	2	C	115318	Ex9BH-JC 2P C16A EU	1/6/54
20 A	2	C	115319	Ex9BH-JC 2P C20A EU	1/6/54
25 A	2	C	115320	Ex9BH-JC 2P C25A EU	1/6/54
32 A	2	C	115321	Ex9BH-JC 2P C32A EU	1/6/54
40 A	2	C	115322	Ex9BH-JC 2P C40A EU	1/6/54
50 A	2	C	115323	Ex9BH-JC 2P C50A EU	1/6/54
63 A	2	C	115324	Ex9BH-JC 2P C63A EU	1/6/54

C-Characteristic, 3-pole, AC, 10 kA



Rated current	Poles	Char.	Article No.	Type	Packing
1 A	3	C	115357	Ex9BH-JC 3P C1A EU	1/4/36
1.6 A	3	C	115358	Ex9BH-JC 3P C1.6A EU	1/4/36
2 A	3	C	115359	Ex9BH-JC 3P C2A EU	1/4/36
3 A	3	C	115360	Ex9BH-JC 3P C3A EU	1/4/36
4 A	3	C	115361	Ex9BH-JC 3P C4A EU	1/4/36
6 A	3	C	115362	Ex9BH-JC 3P C6A EU	1/4/36
8 A	3	C	115363	Ex9BH-JC 3P C8A EU	1/4/36
10 A	3	C	115364	Ex9BH-JC 3P C10A EU	1/4/36
13 A	3	C	115365	Ex9BH-JC 3P C13A EU	1/4/36
16 A	3	C	115366	Ex9BH-JC 3P C16A EU	1/4/36
20 A	3	C	115367	Ex9BH-JC 3P C20A EU	1/4/36
25 A	3	C	115368	Ex9BH-JC 3P C25A EU	1/4/36
32 A	3	C	115369	Ex9BH-JC 3P C32A EU	1/4/36
40 A	3	C	115370	Ex9BH-JC 3P C40A EU	1/4/36
50 A	3	C	115371	Ex9BH-JC 3P C50A EU	1/4/36
63 A	3	C	115372	Ex9BH-JC 3P C63A EU	1/4/36

AC MCBs for Railway **Ex9BH-JC**

C-Characteristic, 4-pole, AC, 10 kA



Rated current	Poles	Char.	Article No.	Type	Packing
1 A	4	C	115405	Ex9BH-JC 4P C1A EU	1/3/27
1.6 A	4	C	115406	Ex9BH-JC 4P C1.6A EU	1/3/27
2 A	4	C	115407	Ex9BH-JC 4P C2A EU	1/3/27
3 A	4	C	115408	Ex9BH-JC 4P C3A EU	1/3/27
4 A	4	C	115409	Ex9BH-JC 4P C4A EU	1/3/27
6 A	4	C	115410	Ex9BH-JC 4P C6A EU	1/3/27
8 A	4	C	115411	Ex9BH-JC 4P C8A EU	1/3/27
10 A	4	C	115412	Ex9BH-JC 4P C10A EU	1/3/27
13 A	4	C	115413	Ex9BH-JC 4P C13A EU	1/3/27
16 A	4	C	115414	Ex9BH-JC 4P C16A EU	1/3/27
20 A	4	C	115415	Ex9BH-JC 4P C20A EU	1/3/27
25 A	4	C	115416	Ex9BH-JC 4P C25A EU	1/3/27
32 A	4	C	115417	Ex9BH-JC 4P C32A EU	1/3/27
40 A	4	C	115418	Ex9BH-JC 4P C40A EU	1/3/27
50 A	4	C	115419	Ex9BH-JC 4P C50A EU	1/3/27
63 A	4	C	115420	Ex9BH-JC 4P C63A EU	1/3/27

AC MCBs for Railway **Ex9BH-JC**

D-Characteristic, 1-pole, AC, 10 kA



Rated current	Poles	Char.	Article No.	Type	Packing
1 A	1	D	115277	Ex9BH-JC 1P D1A EU	1/12/108
1.6 A	1	D	115278	Ex9BH-JC 1P D1.6A EU	1/12/108
2 A	1	D	115279	Ex9BH-JC 1P D2A EU	1/12/108
3 A	1	D	115280	Ex9BH-JC 1P D3A EU	1/12/108
4 A	1	D	115281	Ex9BH-JC 1P D4A EU	1/12/108
6 A	1	D	115282	Ex9BH-JC 1P D6A EU	1/12/108
8 A	1	D	115283	Ex9BH-JC 1P D8A EU	1/12/108
10 A	1	D	115284	Ex9BH-JC 1P D10A EU	1/12/108
13 A	1	D	115285	Ex9BH-JC 1P D13A EU	1/12/108
16 A	1	D	115286	Ex9BH-JC 1P D16A EU	1/12/108
20 A	1	D	115287	Ex9BH-JC 1P D20A EU	1/12/108
25 A	1	D	115288	Ex9BH-JC 1P D25A EU	1/12/108
32 A	1	D	115289	Ex9BH-JC 1P D32A EU	1/12/108
40 A	1	D	115290	Ex9BH-JC 1P D40A EU	1/12/108
50 A	1	D	115291	Ex9BH-JC 1P D50A EU	1/12/108
63 A	1	D	115292	Ex9BH-JC 1P D63A EU	1/12/108

D-Characteristic, 2-pole, AC, 10 kA



Rated current	Poles	Char.	Article No.	Type	Packing
1 A	2	D	115325	Ex9BH-JC 2P D1A EU	1/6/54
1.6 A	2	D	115326	Ex9BH-JC 2P D1.6A EU	1/6/54
2 A	2	D	115327	Ex9BH-JC 2P D2A EU	1/6/54
3 A	2	D	115328	Ex9BH-JC 2P D3A EU	1/6/54
4 A	2	D	115329	Ex9BH-JC 2P D4A EU	1/6/54
6 A	2	D	115330	Ex9BH-JC 2P D6A EU	1/6/54
8 A	2	D	115331	Ex9BH-JC 2P D8A EU	1/6/54
10 A	2	D	115332	Ex9BH-JC 2P D10A EU	1/6/54
13 A	2	D	115333	Ex9BH-JC 2P D13A EU	1/6/54
16 A	2	D	115334	Ex9BH-JC 2P D16A EU	1/6/54
20 A	2	D	115335	Ex9BH-JC 2P D20A EU	1/6/54
25 A	2	D	115336	Ex9BH-JC 2P D25A EU	1/6/54
32 A	2	D	115337	Ex9BH-JC 2P D32A EU	1/6/54
40 A	2	D	115338	Ex9BH-JC 2P D40A EU	1/6/54
50 A	2	D	115339	Ex9BH-JC 2P D50A EU	1/6/54
63 A	2	D	115340	Ex9BH-JC 2P D63A EU	1/6/54

D-Characteristic, 3-pole, AC, 10 kA



Rated current	Poles	Char.	Article No.	Type	Packing
1 A	3	D	115373	Ex9BH-JC 3P D1A EU	1/4/36
1.6 A	3	D	115374	Ex9BH-JC 3P D1.6A EU	1/4/36
2 A	3	D	115375	Ex9BH-JC 3P D2A EU	1/4/36
3 A	3	D	115376	Ex9BH-JC 3P D3A EU	1/4/36
4 A	3	D	115377	Ex9BH-JC 3P D4A EU	1/4/36
6 A	3	D	115378	Ex9BH-JC 3P D6A EU	1/4/36
8 A	3	D	115379	Ex9BH-JC 3P D8A EU	1/4/36
10 A	3	D	115380	Ex9BH-JC 3P D10A EU	1/4/36
13 A	3	D	115381	Ex9BH-JC 3P D13A EU	1/4/36
16 A	3	D	115382	Ex9BH-JC 3P D16A EU	1/4/36
20 A	3	D	115383	Ex9BH-JC 3P D20A EU	1/4/36
25 A	3	D	115384	Ex9BH-JC 3P D25A EU	1/4/36
32 A	3	D	115385	Ex9BH-JC 3P D32A EU	1/4/36
40 A	3	D	115386	Ex9BH-JC 3P D40A EU	1/4/36
50 A	3	D	115387	Ex9BH-JC 3P D50A EU	1/4/36
63 A	3	D	115388	Ex9BH-JC 3P D63A EU	1/4/36

AC MCBs for Railway **Ex9BH-JC**

D-Characteristic, 4-pole, AC, 10 kA



Rated current	Poles	Char.	Article No.	Type	Packing
1 A	4	D	115421	Ex9BH-JC 4P D1A EU	1/3/27
1.6 A	4	D	115422	Ex9BH-JC 4P D1.6A EU	1/3/27
2 A	4	D	115423	Ex9BH-JC 4P D2A EU	1/3/27
3 A	4	D	115424	Ex9BH-JC 4P D3A EU	1/3/27
4 A	4	D	115425	Ex9BH-JC 4P D4A EU	1/3/27
6 A	4	D	115426	Ex9BH-JC 4P D6A EU	1/3/27
8 A	4	D	115427	Ex9BH-JC 4P D8A EU	1/3/27
10 A	4	D	115428	Ex9BH-JC 4P D10A EU	1/3/27
13 A	4	D	115429	Ex9BH-JC 4P D13A EU	1/3/27
16 A	4	D	115430	Ex9BH-JC 4P D16A EU	1/3/27
20 A	4	D	115431	Ex9BH-JC 4P D20A EU	1/3/27
25 A	4	D	115432	Ex9BH-JC 4P D25A EU	1/3/27
32 A	4	D	115433	Ex9BH-JC 4P D32A EU	1/3/27
40 A	4	D	115434	Ex9BH-JC 4P D40A EU	1/3/27
50 A	4	D	115435	Ex9BH-JC 4P D50A EU	1/3/27
63 A	4	D	115436	Ex9BH-JC 4P D63A EU	1/3/27

Accessories for Ex9B-JC MCBs for Railway



- Accessories for Ex9B-JC according to IEC/EN 60974-5-1
- Auxilliary contacts AX33
- Signal contacts AL33
- Auxilliary contacts synchronnous with main contacts of the device
- Signal contacts active on electrical tripping of the circuit breaker
- 2 NO, 2 NC, 1 NO + 1NC version
- Shunt trip release SHT33
- SHT33 can be used for remote switch off
- — , 1 NO, 1 NC, 1 CO version
- All accessories are mounted to the device from the right side

Type Key



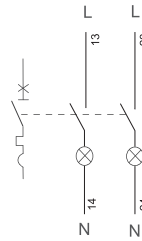
Accessories for Ex9B-JC MCBs for Railway

Auxiliary contact units

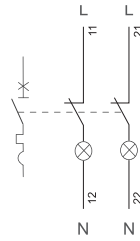


Function	Contacts	Article No.	Type	Packing
Auxiliary	2 NO	115437	AX3320 EU	1/96
Auxiliary	2 NC	115438	AX3302 EU	1/96
Auxiliary	1 NO + 1 NC	115439	AX3311 EU	1/96

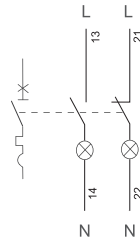
Wiring diagrams



AX3320



AX3302



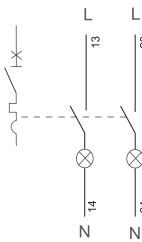
AX3311

Signal contact units

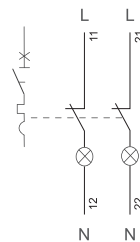


Function	Contacts	Article No.	Type	Packing
Signal	2 NO	115440	AL3320 EU	1/96
Signal	2 NC	115441	AL3302 EU	1/96
Signal	1 NO + 1 NC	115442	AL3311 EU	1/96

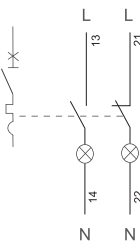
Wiring diagrams



AL3320



AL3302



AL3311

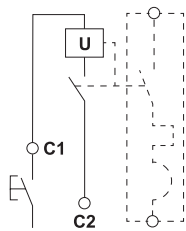
Accessories for Ex9B-JC MCBs for Railway

Shunt trip release

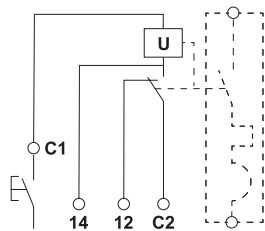


Auxiliary contacts	Rated op. voltage AC	Rated op. voltage DC	Article No.	Type	Packing
-	24-48 V AC	24-48 V DC	117422	SHT33 24-48VAC/DC EU	1/96
1 CO	24-48 V AC	24-48 V DC	117423	SHT3311 24-48VAC/DC EU	1/96
1 NO	24-48 V AC	24-48 V DC	117424	SHT3310 24-48VAC/DC EU	1/96
1 NC	24-48 V AC	24-48 V DC	117425	SHT3301 24-48VAC/DC EU	1/96
-	110-415 V AC	110-130 V DC	117426	SHT33 110-130VDC/ 110-415VAC EU	1/96
1 CO	110-415 V AC	110-130 V DC	117427	SHT3311 110-130VDC/ 110-415VAC EU	1/96
1 NO	110-415 V AC	110-130 V DC	117428	SHT3310 110-130VDC/ 110-415VAC EU	1/96
1 NC	110-415 V AC	110-130 V DC	117429	SHT3301 110-130VDC/ 110-415VAC EU	1/96

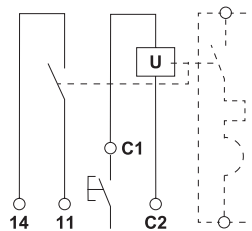
Wiring diagrams



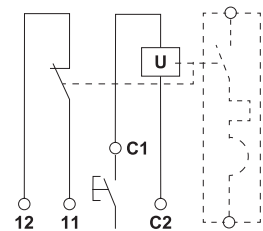
SHT33



SHT3311



SHT3310



SHT3301

Technical Data Ex9BD-JC

Miniature Circuit Breakers for Railway DC

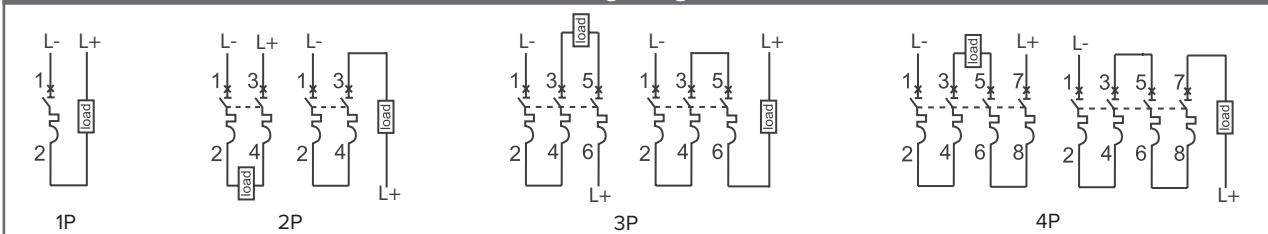
General parameters

Miniature Circuit Breakers for Railway		
Meets the requirements of railway standards IEC/EN 60947-2, IEC/EN 61373, EN 45545		
Accessories		
Auxiliary contacts	AX3320, AX3302, AX3311	115437, 115438, 115439
Signal contacts	AL3320, AL3302, AL3311	115440, 115441, 115442
Shunt trip releases	SHT33, SHT3311, SHT3310, SHT3301	117422 - 117429

Electrical parameters

Tested according to	IEC/EN 60947-2, IEC/EN 61373, EN 45545
Rated operational voltage U_e	250 V DC per pole
Rated impulse withstand voltage U_{imp}	6 kV
Rated insulation voltage U_i	1000 V
Ultimate breaking capacity I_{cu} according IEC 60947-2	10 kA
Rated service breaking capacity I_{cs}	75 % I_{cu}
Rated current	1 – 63 A
Tripping characteristics	B, C, K
Mechanical service life	20 000 operation cycles
Electrical service life	10 000 operation cycles
Type of tripping unit	Thermo-magnetic

Wiring diagrams



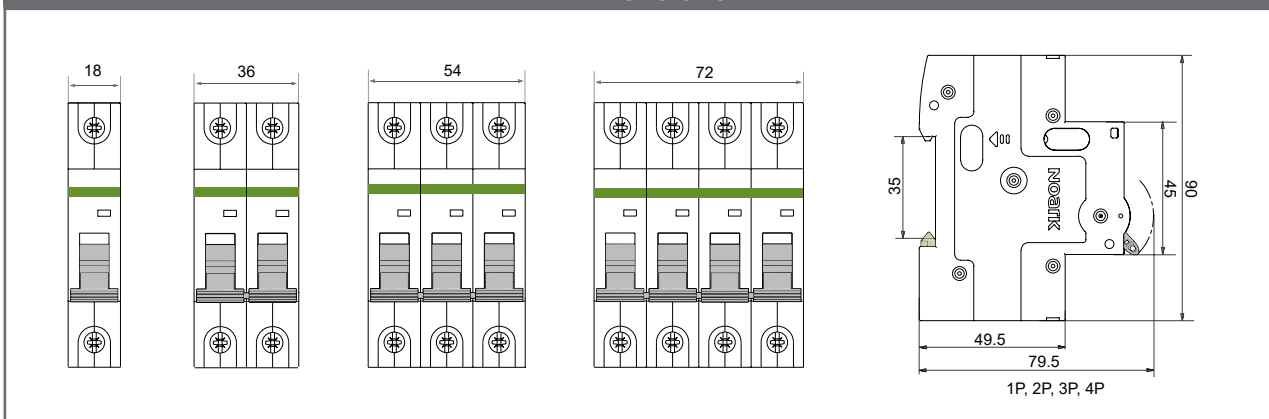
Technical Data **Ex9BD-JC**

Miniature Circuit Breakers for Railway DC

Mechanical parameters

Device width	18 mm (per pole)	
Device height	90 mm	
Frame size	45 mm	
Mounting	easy fastening onto 35 mm device rail (DIN)	
Degree of protection	Sides	IP40
	Terminals	IP20
Screw size	M5	
Terminals	combined lift + open mouthed	
Terminal capacity	1 – 16 mm ²	
Fastening torque of terminals	2 – 3.5 Nm	
Ambient temperature	-40 – +75 °C	
Relative humidity	≤ 95 % at 20 °C, ≤ 50 % at 40 °C	
Resistance to humidity and heat	class 2	
Pollution degree	3	
Installation class	III	
Weight	0.146 kg (per pole)	

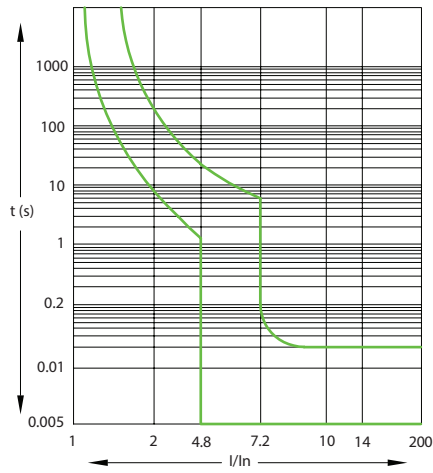
Dimensions



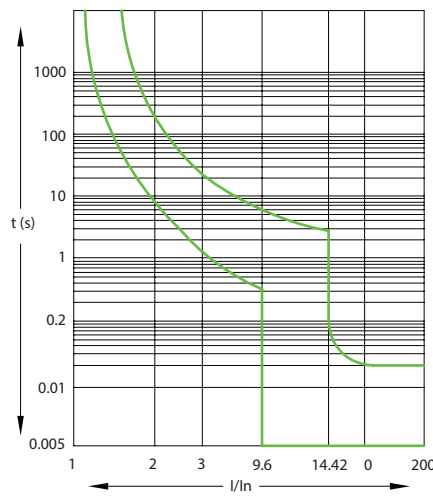
Miniature Circuit Breakers for Railway DC

Tripping characteristics

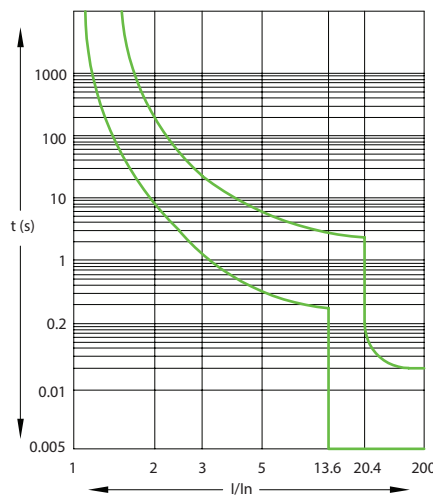
Characteristic B



Characteristic C



Characteristic K



Technical Data **Ex9BN-JC, Ex9BH-JC**

Miniature Circuit Breakers for Railway AC

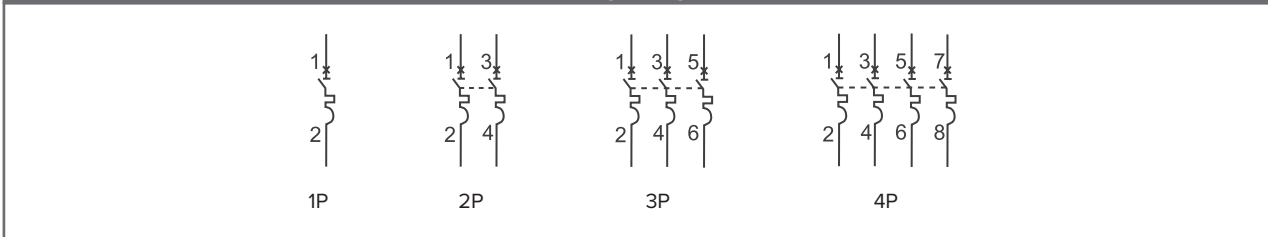
General parameters

Miniature Circuit Breakers for Railway		
Meets the requirements of railway standards IEC/EN 60947-2, IEC/EN 61373, EN 45545		
Accessories		
Auxiliary contacts	AX3320, AX3302, AX3311	115437, 115438, 115439
Signal contacts	AL3320, AL3302, AL3311	115440, 115441, 115442
Shunt trip releases	SHT33, SHT3311, SHT3310, SHT3301	117422 - 117429

Electrical parameters

Tested according to	IEC/EN 60947-2, IEC/EN 61373, EN 45545	
Rated operational voltage U_e	230/400 V AC	
Rated impulse withstand voltage U_{imp}	6 kV	
Rated insulation voltage U_i	690 V AC	
Rated frequency	50/60 Hz	
Ultimate breaking capacity I_{cu} according IEC 60947-2	Ex9BN-JC	6 kA
	Ex9BH-JC	10 kA
Rated service breaking capacity I_{cs}	Ex9BN-JC	100 % I_{cu}
	Ex9BH-JC	75 % I_{cu}
Rated current	1 – 63 A	
Tripping characteristics	B, C, D	
Mechanical service life	20 000 operation cycles	
Electrical service life	10 000 operation cycles	
Type of tripping unit	Thermo-magnetic	

Wiring diagrams



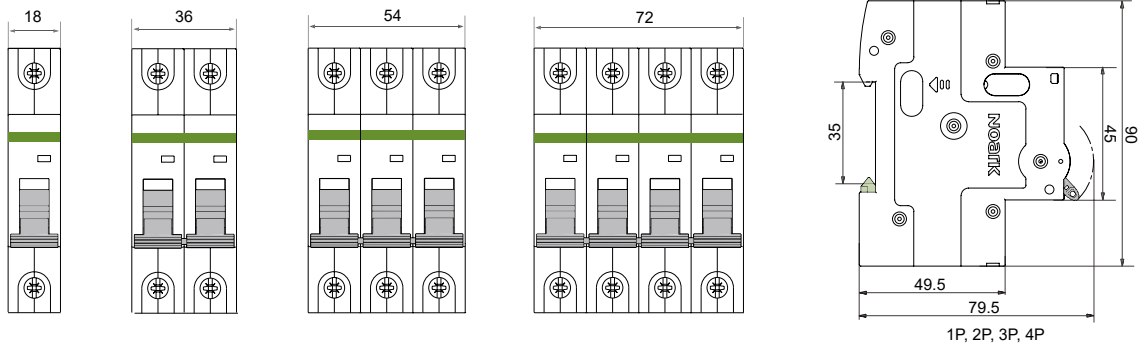
Technical Data **Ex9BN-JC, Ex9BH-JC**

Miniature Circuit Breakers for Railway AC

Mechanical parameters

Device width	18 mm (per pole)
Device height	90 mm
Frame size	45 mm
Mounting	easy fastening onto 35 mm device rail (DIN)
Degree of protection	IP20
Screw size	M5
Terminals	combined lift + open mouthed
Terminal capacity	1 – 16 mm ²
Fastening torque of terminals	2 – 3.5 Nm
Ambient temperature	-40 – +75 °C
Relative humidity	≤ 95 % at 20 °C, ≤ 50 % at 40 °C
Resistance to humidity and heat	class 2
Pollution degree	2
Installation class	III
Weight	0.146 kg (per pole)

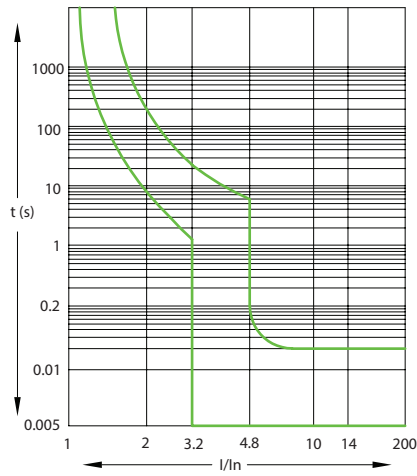
Dimensions



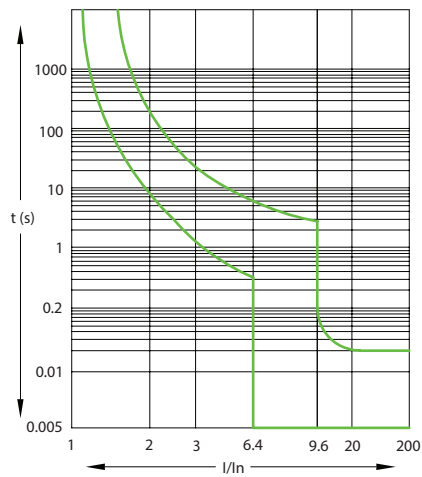
Miniature Circuit Breakers for Railway AC

Tripping characteristics

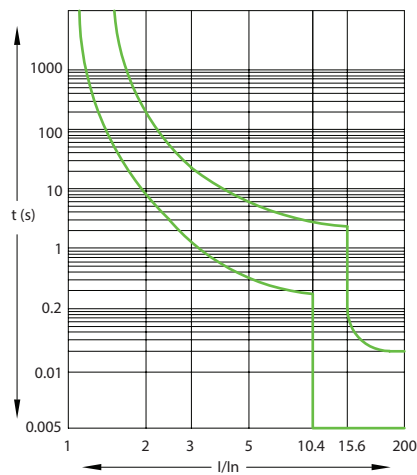
Characteristic B



Characteristic C



Characteristic D



Technical Data **Accessories** for Ex9B-JC

Accessories for Miniature Circuit Breakers for Railway

Auxilliary and signal contact units AX33, AL33

General parameters

Contact units are mounted to the device from the right

Auxilliary contacts synchronnous with main contacts of the device

Signal contacts active on electrical tripping of the circuit breaker

After an electrical tripping, the RESET key must be returned to its original position to restore functionality

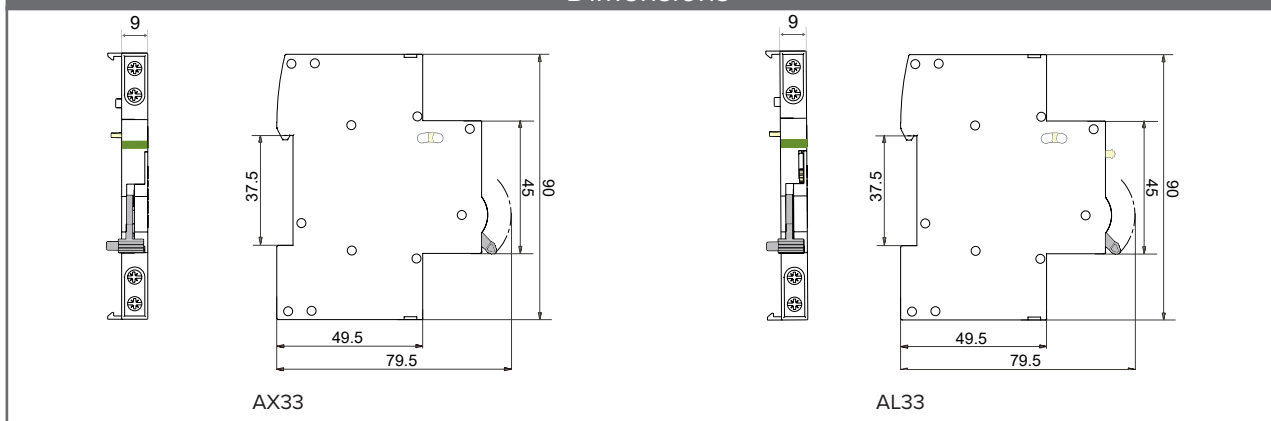
Electrical parameters

	AX3320	AX3302	AX3311	AL3320	AL3302	AL3311
Contacts	2 NO	2 NC	1NO+1NC	2 NO	2 NC	1NO+1NC
Contacts function	auxiliary			signal		
Tested according to	IEC/EN 60947-5-1					
Rated op. voltage	230 / 400 V AC, 24 / 60 / 110 / 200 V DC					
Rated frequency	50/60 Hz					
Rated op. current I_n AC, ut. category AC - 13	6 A (230 V), 3 A (400 V)					
Rated op. current I_n DC, ut. category DC - 13	6 A (24 V), 3 A (60 V), 1 A (110 / 220 V)					

Mechanical parameters

Device width	9 mm
Device height	90 mm
Frame size	45 mm
Mounting	easy fastening onto 35 mm device rail (DIN)
Terminals	lift
Terminal capacity	1 – 6 mm ²
Fastening torque of terminals	1 Nm

Dimensions

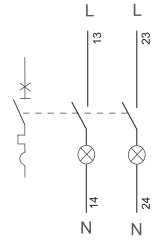


Technical Data **Accessories** for Ex9B-JC

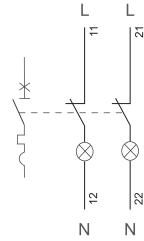
Accessories for Miniature Circuit Breakers for Railway

Auxilliary and signal contact units AX33, AL33

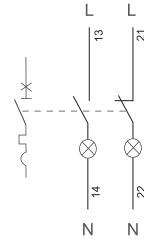
Wiring diagrams



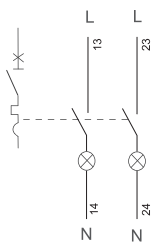
AX3320



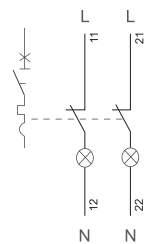
AX3302



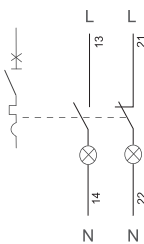
AX3311



AL3320



AL3302



AL3311

Technical Data **Accessories** for Ex9B-JC

Accessories for Miniature Circuit Breakers for Railway

Shunt trip releases SHT33

General parameters

Release units are mounted to the device from the right
Auxilliary contacts synchronnous with main contacts of the device
Signal contacts active on electrical tripping of the circuit breaker
Can be used for remote switch off

Electrical parameters

	SHT33 24V-48V AC/DC SHT3311 24V-48V AC/DC SHT3310 24V-48V AC/DC SHT3301 24V-48V AC/DC	SHT33 110V-415V AC/110V-130V DC SHT3311 110V-415V AC/110V-130V DC SHT3310 110V-415V AC/110V-130V DC SHT3301 110V-415V AC/110V-130V DC
Contacts	- 1 changeover (CO) 1 NO 1 NC	- 1 changeover (CO) 1 NO 1 NC
Contacts function	auxiliary	auxiliary
Tested according to	IEC/EN 60947-2, IEC/EN 60947-5-1	
Rated op. voltage	24 - 48 V AC/DC	110 - 415 V AC, 110-130 V DC
Rated frequency	50/60 Hz	
Rated impulse withstand voltage U_{imp}	4 kV	
Rated insulation voltage	500 V	
Tripping time	< 10 ms	< 10 ms
Minimal duration of control pulse	8 ms	8 ms
Max. back-up fuse	10 A gG	10 A gG
Min. op. voltage per AX contact U_{min}	24 V AC/DC	
Rated op. current I_e AC of AX contact	6 A (240 V), 3 A (415 V)	
Rated op. current I_e DC of AX contact	6 A	
Rated op. current I_e , AC-12 of AX	6 A (240 V), 3 A (415 V)	
Rated op. current I_e , DC-12 of AX	6 A (24 V), 2 A (48 V), 1 A (130 V)	
Max. back-up fuse of AX	10 A Gg	
Conditional short circuit current I_k with max back-up fuse of AX	1 kA	

Mechanical parameters

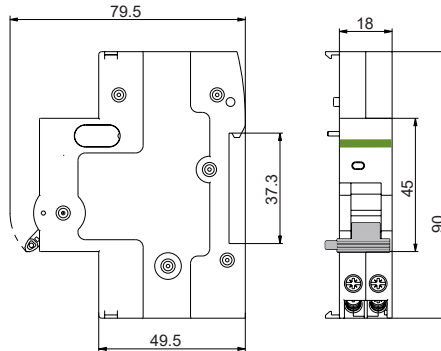
Tripping indicator	red-white
Device width	18 mm
Device height	90 mm
Frame size	45 mm
Mounting	easy fastening onto 35 mm device rail (DIN)
Degree of protection	IP20
Terminals	lift
Terminal capacity	1 – 6 mm ²
Fastening torque of terminals	0.8 – 1 Nm

Technical Data **Accessories** for Ex9B-JC

Accessories for Miniature Circuit Breakers for Railway

Shunt trip releases SHT33

Dimensions



Wiring diagrams

