

# Fuse carriers

## Environment characteristics

Fuse carrier type		DF8	DF10	DF14	DF22
Conforming to standards		IEC 60947-3, UL 512, CSA 22-2 n° 39			
Protective treatment		"TH"			
Degree of protection	Conforming to IEC 60529	IP 20			
Ambient air temperature	Storage	°C	-40...+80		
	For operation, with derating <sup>(1)</sup>	°C	-20...+60		
Operating positions		± 23° in relation to normal mounting plane			
Flame resistance	Conforming to IEC 60695-2-1	°C	960		

## Pole characteristics

Fuse size	mm	8.5 x 31.5	10 x 38	14 x 51	22 x 58				
Rated insulation voltage (Ui) with tubular links, a.c. or D.C. supply	V	500	690	690	690				
Rated impulse withstand voltage (Uimp)	kV	6	6	8	8				
Conventional thermal current (Ith) for ambient air temperature ≤ 20 °C <sup>(1)</sup>	With tubular links	A	25	32	50	125			
	With aM cartridge fuses	A	25	32	50	125			
	With gG cartridge fuses	A	25	32	50	100			
Rated conditional short-circuit current Conforming to IEC 60947-3	400 V	kA	20	120	120	120			
	500 V	kA	–	120	120	120			
	690 V	kA	–	–	80	80			
Peak withstand current (dynamic stress) Conforming to IEC 60269-1	With tubular links	kA	11	15	15	19			
	Cabling (number of conductors x c.s.a.)		Min. Max.	Min. Max.	Min. Max.	Min. Max.			
Solid cable	mm <sup>2</sup>	1 x 1.5	1 x 16 2 x 6	1 x 1.5	1 x 16 2 x 6	1 x 2.5	1 x 25 2 x 10	1 x 2.5	1 x 35 2 x 25
Flexible cable without cable end	mm <sup>2</sup>	1 x 1.5	1 x 10 2 x 6	1 x 1.5	1 x 10 2 x 6	1 x 2.5	1 x 25 2 x 10	1 x 2.5	1 x 35 2 x 16
Flexible cable with cable end	mm <sup>2</sup>	1 x 1.5	1 x 10 2 x 6	1 x 1.5	1 x 10 2 x 6	1 x 2.5	1 x 25 2 x 10	1 x 2.5	1 x 35 2 x 16
Tightening torque	Nm	2.2			3.5		4		

## Characteristics of early break and signalling contacts DF14 AM and DF22 AM

Rated insulation voltage (Ui) a.c. supply	V	250				
Conventional thermal current (Ith) for ambient air temperature ≤ 20 °C <sup>(1)</sup>	A	5				
Rated operational current	Category AC-15	A	24 V	48 V	127 V	240 V
		A	4	4	3	2.5
Definition of rated characteristics	Category DC-13	A	3	1	0.2	0.1
	Conforming to IEC 60947-5-1		B300			
Low load operating characteristics	Minimum voltage	V	10			
	Minimum current	mA	30			
Cabling		Faston connectors				

**(1) For use in an installation with ambient temperature > 20 °C, apply a derating coefficient:**

Maximum temperature	20 °C	30 °C	40 °C	50 °C	60 °C
Max. relative humidity	95 %	90 %	80 %	50 %	50 %
Current derating coefficient	1	0.95	0.9	0.8	0.7