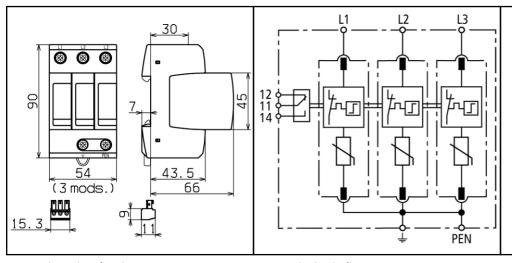
DG M TNC 385 FM







Dimension drawing DG M TNC ... FM

Basic circuit diagram DG M TNC ... FM

DG M TNC ... FM: Modular surge arrester for use in TN-C systems; with floating changeover contact

Prewired complete unit for use in TN-C systems consisting of a base part and plug-in protection modules

Energy coordination within the Red/Line product family

High discharge capacity due to heavy-duty zinc oxide varistors

High reliability due to "Thermo Dynamic Control" SPD monitoring device

Operating state/fault indication of every protective circuit

Multifunctional terminals for connecting conductors and busbars

Easy replacement of protection modules without tools due to module locking system with module release button

Vibration- and shock-tested acc. to EN 60068-2

SPD according to IEC 61643-1 Nominal a.c. voltage [U _{N1} 230/400 V Max. continuous operating a.c. voltage [U _{Q1} 385 V Nominal discharge current (8/20 µs) [I _{N2} 20 kA Max. discharge current (8/20 µs) [I _{N2} 40 kA Voltage protection level [U _{P1} \$1.75 kV Voltage protection level at 5 kA [U _{P1} \$1.35 kV Response time [t _{k1} \$25 ns Max. mains-side overcurrent protection 125 A gL/gG Short-circuit withstand capability for max. mains-side overcurrent protection 125 A gL/gG Short-circuit withstand capability for max. mains-side overcurrent protection 125 kA _{rms} Toty characteristics withstand Operating temperature range [T _{U1} 40°C+80°C Operating state/fault indication green / red Number of ports 1 Cross-sectional area (min.) 1.5 mm² solid/flexible Cross-sectional area (max.) 35 mm² stranded/25 mm² flexible For mounting on 35 mm DIN rail acc. to EN 60715 Enclosure material thermoplastic, red, UL 94 V-0 Location category indoor		
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Nominal a.c. voltage [U _{NI}] 230/400 V Max. continuous operating a.c. voltage [U _{QI}] 385 V Nominal discharge current (8/20 µs) [I _{Ingl}] 20 kA Max. discharge current (8/20 µs) [I _{Imax}] 40 kA Voltage protection level [U _{PI}] ≤ 1.75 kV Voltage protection level at 5 kA [U _{PI}] ≤ 1.35 kV Response time [t _{NI}] ≤ 25 ns Max. mains-side overcurrent protection 125 A gL/gG Short-circuit withstand capability for max. mains-side overcurrent protection 25 kA _{rms} Temporary overvoltage (TOV) [U _{TI}] 385 V / 5 sc. TOV characteristics withstand Operating state/fault indication green / red Number of ports 1 Cross-sectional area (min.) 1.5 mm² solid/flexible Cross-sectional area (min.) 35 mm² stranded/25 mm² flexible For mounting on 35 mm DIN rail acc. to EN 60715 Enclosure material thermoplastic, red, UL 94 V-0 Location category indoor Degree of protection IP 20	SPD according to EN 61643-11	Type 2
Max. continuous operating a.c. voltage [Uq] Nominal discharge current (8/20 µs) [In] Aux. discharge current (8/20 µs) [Imax] Woltage protection level [Up] \$1.75 kV Voltage protection level at 5 kA [Up] Response time [In] \$25 ns Max. mains-side overcurrent protection Short-circuit withstand capability for max. mains-side overcurrent protection Temporary overvoltage (TOV) [Un] Temporary overvoltage (TOV) [Un] Toparating temperature range [Tu] Operating state/fault indication Number of ports 1 Cross-sectional area (min.) 1.5 mm² solid/flexible Cross-sectional area (max.) Temporary overvoltage (Tow) 1.5 mm² stranded/25 mm² flexible For mounting on 35 mm DIN rail acc. to EN 60715 Enclosure material Location category Indoor	SPD according to IEC 61643-1	Class II
Nominal discharge current (8/20 µs) [I _{nimat}] Max. discharge current (8/20 µs) [I _{mimat}] 40 kA Voltage protection level [U _P ≤ 1.75 kV Voltage protection level at 5 kA [U _P ≤ 1.35 kV Response time [t _A ≤ 25 ns Max. mains-side overcurrent protection 125 A gL/gG Short-circuit withstand capability for max. mains-side overcurrent protection Temporary overvoltage (TOV) [U _T 385 V/5 sec. TOV characteristics withstand Operating temperature range [T _U 40°C+80°C Operating state/fault indication green / red Number of ports 1 Cross-sectional area (min.) 1.5 mm² solid/flexible Cross-sectional area (min.) 35 mm² stranded/25 mm² flexible For mounting on 35 mm DIN rail acc. to EN 60715 Enclosure material thermoplastic, red, UL 94 V-0 Location category indoor	Nominal a.c. voltage [U _{N]}	230/400 V
Max. discharge current (8/20 µs) [I _{max}] Voltage protection level [U _P] ≤ 1.75 kV Voltage protection level at 5 kA [U _P] ≤ 1.35 kV Response time [t _A] ≤ 25 ns Max. mains-side overcurrent protection 125 A gU/gG Short-circuit withstand capability for max. mains-side overcurrent protection Temporary overvoltage (TOV) [U _T] 385 V / 5 sec. TOV characteristics withstand Operating temperature range [T _{UI}) Operating temperature range [T _{UI}) Operating state/fault indication green / red Number of ports 1 Cross-sectional area (min.) 1.5 mm² stranded/25 mm² flexible For mounting on 35 mm DIN rail acc. to EN 60715 Enclosure material thermoplastic, red, UL 94 V-0 Location category indoor Degree of protection	Max. continuous operating a.c. voltage [U _{C]}	385 V
Voltage protection level [U _{P]} ≤ 1.75 kV Voltage protection level at 5 kA [U _{P]} ≤ 1.35 kV Response time [t _{A]} ≤ 25 ns Max. mains-side overcurrent protection 125 A gL/gG Short-circuit withstand capability for max. mains-side overcurrent protection 25 kA _{rms} Temporary overvoltage (TOV) [U _{T]} 385 V / 5 sec. TOV characteristics withstand Operating temperature range [T _{U]} -40°C+80°C Operating state/fault indication green / red Number of ports 1 Cross-sectional area (min.) 1.5 mm² solid/flexible Cross-sectional area (max.) 35 mm² stranded/25 mm² flexible For mounting on 35 mm DIN rail acc. to EN 60715 Enclosure material thermoplastic, red, UL 94 V-0 Location category indoor Degree of protection IP 20	Nominal discharge current (8/20 µs) [I _{n]}	20 kA
Voltage protection level at 5 kA [U _{P]} ≤ 1.35 kV Response time [t _{A]} ≤ 25 ns Max. mains-side overcurrent protection 125 A gL/gG Short-circuit withstand capability for max. mains-side overcurrent protection 25 kA _{rms} Temporary overvoltage (TOV) [U _{T]} 385 V / 5 sec. TOV characteristics withstand Operating temperature range [T _{U]} -40°C+80°C Operating state/fault indication green / red Number of ports 1 Cross-sectional area (min.) 1.5 mm² solid/flexible Cross-sectional area (max.) 35 mm² stranded/25 mm² flexible For mounting on 35 mm DIN rail acc. to EN 60715 Enclosure material thermoplastic, red, UL 94 V-0 Location category indoor Degree of protection IP 20	Max. discharge current (8/20 μs) [I _{max]}	40 kA
Response time [t _{A]} ≤ 25 ns Max. mains-side overcurrent protection 125 A gL/gG Short-circuit withstand capability for max. mains-side overcurrent protection 25 kA _{rms} Temporary overvoltage (TOV) [U _{T]} 385 V / 5 sec. TOV characteristics withstand Operating temperature range [T _{U]} -40°C+80°C Operating state/fault indication green / red Number of ports 1 Cross-sectional area (min.) 1.5 mm² solid/flexible Cross-sectional area (max.) 35 mm² stranded/25 mm² flexible For mounting on 35 mm DIN rail acc. to EN 60715 Enclosure material thermoplastic, red, UL 94 V-0 Location category indoor Degree of protection IP 20	Voltage protection level [U _{P]}	≤ 1.75 kV
Max. mains-side overcurrent protection Short-circuit withstand capability for max. mains-side overcurrent protection Temporary overvoltage (TOV) [U _{TI} 385 V / 5 sec. TOV characteristics withstand Operating temperature range [T _{UI} -40°C+80°C Operating state/fault indication green / red Number of ports 1 Cross-sectional area (min.) 1.5 mm² solid/flexible Cross-sectional area (max.) 35 mm² stranded/25 mm² flexible For mounting on 35 mm DIN rail acc. to EN 60715 Enclosure material thermoplastic, red, UL 94 V-0 Location category indoor Degree of protection 125 mm² solid/flexible 1 p 20	Voltage protection level at 5 kA [U _{P]}	≤ 1.35 kV
Short-circuit withstand capability for max. mains-side overcurrent protection Temporary overvoltage (TOV) [U _{T]} 385 V / 5 sec. TOV characteristics withstand Operating temperature range [T _{U]} -40°C+80°C Operating state/fault indication green / red Number of ports 1 Cross-sectional area (min.) 1.5 mm² solid/flexible Cross-sectional area (max.) 35 mm² stranded/25 mm² flexible For mounting on 35 mm DIN rail acc. to EN 60715 Enclosure material thermoplastic, red, UL 94 V-0 Location category indoor	Response time [t _{A]}	≤ 25 ns
Temporary overvoltage (TOV) [U _{T]} Temporary overvoltage (TOV) [U _{T]} TOV characteristics Withstand Operating temperature range [T _{U]} Operating state/fault indication Green / red Number of ports 1 Cross-sectional area (min.) 1.5 mm² solid/flexible Cross-sectional area (max.) Tor mounting on 35 mm DIN rail acc. to EN 60715 Enclosure material thermoplastic, red, UL 94 V-0 Location category Degree of protection IP 20	Max. mains-side overcurrent protection	125 A gL/gG
TOV characteristics Operating temperature range [T _{U]} Operating state/fault indication Operating state/fault indication Number of ports 1 Cross-sectional area (min.) Cross-sectional area (min.) 1.5 mm² solid/flexible 35 mm² stranded/25 mm² flexible For mounting on 35 mm DIN rail acc. to EN 60715 Enclosure material thermoplastic, red, UL 94 V-0 Location category indoor Degree of protection IP 20	Short-circuit withstand capability for max. mains-side overcurrent protection	25 kA _{rms}
Operating temperature range [T _{U]} -40°C+80°C Operating state/fault indication green / red Number of ports 1 Cross-sectional area (min.) 1.5 mm² solid/flexible Cross-sectional area (max.) 35 mm² stranded/25 mm² flexible For mounting on 35 mm DIN rail acc. to EN 60715 Enclosure material thermoplastic, red, UL 94 V-0 Location category indoor Degree of protection IP 20	Temporary overvoltage (TOV) [U _{T]}	385 V / 5 sec.
Operating state/fault indication Number of ports Cross-sectional area (min.) Cross-sectional area (max.) To munting on Enclosure material Location category Degree of protection green / red 1 1 1.5 mm² solid/flexible 35 mm² stranded/25 mm² flexible 35 mm DIN rail acc. to EN 60715 thermoplastic, red, UL 94 V-0 indoor IP 20	TOV characteristics	withstand
Number of ports Cross-sectional area (min.) Cross-sectional area (max.) Some stranded/25 mm² flexible For mounting on Some DIN rail acc. to EN 60715 Enclosure material Location category Degree of protection 1	Operating temperature range [T _{U]}	-40°C+80°C
Cross-sectional area (min.) 1.5 mm² solid/flexible Cross-sectional area (max.) 35 mm² stranded/25 mm² flexible For mounting on 35 mm DIN rail acc. to EN 60715 Enclosure material thermoplastic, red, UL 94 V-0 Location category indoor Degree of protection IP 20	Operating state/fault indication	green / red
Cross-sectional area (max.) For mounting on Enclosure material Location category Degree of protection 35 mm ² stranded/25 mm ² flexible 35 mm DIN rail acc. to EN 60715 thermoplastic, red, UL 94 V-0 indoor IP 20	Number of ports	1
For mounting on 35 mm DIN rail acc. to EN 60715 Enclosure material thermoplastic, red, UL 94 V-0 Location category indoor Degree of protection IP 20	Cross-sectional area (min.)	1.5 mm² solid/flexible
Enclosure material thermoplastic, red, UL 94 V-0 Location category indoor Degree of protection IP 20	Cross-sectional area (max.)	35 mm ² stranded/25 mm ² flexible
Location category indoor Degree of protection IP 20	For mounting on	35 mm DIN rail acc. to EN 60715
Degree of protection IP 20	Enclosure material	thermoplastic, red, UL 94 V-0
· ·	Location category	indoor
	Degree of protection	IP 20
Capacity 3 mods., DIN 4	Capacity	3 mods., DIN 4

Type of remote signalling contact	changeover contact	
Switching capacity a.c.	250 V/0.5 A	
Switching capacity d.c.	250 V/0.1 A; 125 V/0.2 A; 75 V/0.5 A	
Cross-sectional area for remote signalling terminals	max. 1.5 mm² solid/flexible	
Ordering information		
Туре	DG M TNC 385 FM	
Part No.	952 319	
Packing unit	1 pc	

We reserve the right to modify design, technology, dimensions, weights and materials according to technical progress. Illustrations are non-binding. Pictures may differ from the modules described.