



Figure similar

Motor circuit breaker, 14-20A, for motor protection, with screw terminal

product brand name	SINOVA
product designation	Circuit breaker
design of the product	for motor protection
product type designation	3MV8
General technical data	
power loss [W] total typical	9 W
insulation voltage with degree of pollution 3 at AC rated value	690 V
protection class IP	
• on the front	IP20
• of the terminal	IP20
shock resistance according to IEC 60068-2-27	25g / 11 ms
Weight	0.29 kg
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
ambient temperature	
• during operation	-20 ... +55 °C
• during transport	-25 ... +70 °C
Main circuit	
number of poles for main current circuit	3
adjustable current response value current of the current-dependent overload release initial value	14 A
operating voltage	
• rated value	690 V
• at AC-3 rated value maximum	690 V
operating frequency rated value	50 ... 60 Hz
operational current rated value	20 A
operational current at AC-3 at 400 V rated value	20 A
operating frequency at AC-3 maximum	25 1/h
Protective and monitoring functions	
trip class	CLASS 10A
design of the overload release	thermal
maximum short-circuit current breaking capacity (Icu) at AC at 400 V rated value	6 kA
operating short-circuit current breaking capacity (Ics) at AC at 400 V rated value	6 kA
response value current of instantaneous short-circuit trip unit	240 A
Short-circuit protection	
product function short circuit protection	Yes
design of the short-circuit trip	magnetic
Installation/ mounting/ dimensions	

mounting position		Vertical (can be rotated +/- 90° and tilted forward or backward +/- 90°)
fastening method		screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 50022
height		86 mm
width		54 mm
depth		70 mm
required spacing for grounded parts		
• forwards		70 mm
• backwards		0 mm
• upwards		20 mm
• at the side		9 mm
• downwards		20 mm
Connections/ Terminals		
type of electrical connection for main current circuit		screw-type terminals
arrangement of electrical connectors for main current circuit		Top and bottom
type of connectable conductor cross-sections for main contacts		
• solid or stranded		2x (1 ... 6 mm²)
• finely stranded with core end processing		2x (1 ... 4 mm²)
type of connectable conductor cross-sections for auxiliary contacts		
• solid or stranded		2x (0.5 ... 2.5 mm²)
• finely stranded with core end processing		2x (0.5 ... 1.5 mm²)
tightening torque		
• for main contacts with screw-type terminals		1 ... 1.5 N·m
• for auxiliary contacts with screw-type terminals		0.8 ... 1.2 N·m
Electrical Safety		
touch protection against electrical shock		finger-safe
Approvals Certificates		
General Product Approval	other	Environment



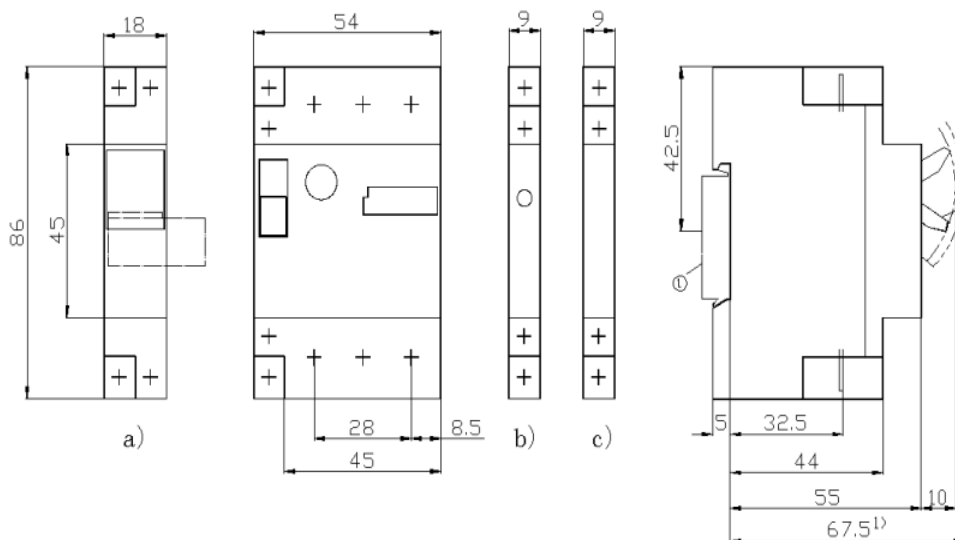
[Confirmation](#)

[Environmental Confirmations](#)

Further information

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

<https://support.industry.siemens.com/cs/products?pnid=16027&lc=en-CN>



- a) 欠压脱扣器或分励脱扣器
和/或
b) 短路故障显示器
和/或
c) 辅助触头

- a) Undervoltage release or Shunt release
and/or
b) Short-circuit signalling contact block
and/or
c) Auxiliary contact block

