## SIEMENS

## Data sheet

## 3MV8100-0MH00



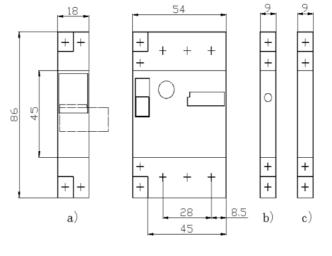
Motor circuit breaker, 1.6-2.4A, for motor protection, with screw terminal

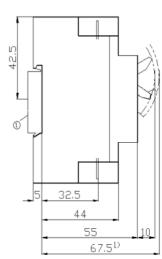
product brand name         SINOVA           product designation         Circuit breaker           design of the product         for motor protection           product type designation         3MV8           Ceneral technical data         600 V           protection class IP         600 V           • on the front         IP20           • of the terminal         IP20           ashock resistance according to IEC 60068-2:27         Z5g /11 ms           Weight         0.29 kg           Ambient conditions         -20 +65 °C           • during transpott         -20 +65 °C           • during transpott         16 Å           digustable current response value current of the current.         16 Å           operating voltage         -           • at AC-3 rated value         600 V           • at AC-3 rated value         50 60 Hz	1 igure sinnai		
design of the product     for motor protection       product type designation     3MV8       General technical data     power loss [W] total typical     6 W       insulation voltage with degree of pollution 3 at AC rated value     680 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     -18 A       operating voltage     690 V       • at AC-3 rated value     690 V       • at AC-3 rated value     2.4 A       operating frequency rated value     2.4 A       operating frequency rated value     2.4 A       operating frequency at AC-3 maximum     25 1/h       Protective and monitoring functions	product brand name	SINOVA	
product type designation         3MV8           Central tochnical dats	product designation	Circuit breaker	
General technical data           power loss (W) total typical         6 W           Insulation voltage with degree of pollution 3 at AC rated value         690 V           protection class IP         6           • on the front         IP20           • of the terminal         IP20           shock resistance according to IEC 60068-2-27         Z5g / 11 ms           Weight         0.29 kg           Ambient conditions         1           installation at height above sea level maximum         2 000 m           ambient temperature         -           • during operation         -20 +55 °C           • during transport         -25 +70 °C           Main circuit         3           adjustable current response value current of the current-         -06 00 V           • attack value         690 V           • attack value         50 60 Hz           operating frequency at AC-3 maximum         25 1/h           Protective and monitoring functions         titip class           CLASS 10A <td>design of the product</td> <td>for motor protection</td>	design of the product	for motor protection	
power loss [W] total typical         6 W           insulation voltage with degree of pollution 3 at AC rated value         680 V           protection class IP         680 V           • on the front         IP20           • otck resistance according to IEC 60068-2-27         25g / 11 ms           Weight         0.29 kg           Ambient conditions         1           installation altitude at height above sea level maximum         2 000 m           ambient temperature         -           • during transport         -25 +70 °C           Main dircuit         3           adjustable current response value current of the current-         1.8 A           operating voltage         690 V           • rated value         690 V           • at AC-3 rated value         690 V           • at AC-3 rated value         24 A           operating voltage         690 V           • at AC-3 rated value         24 A           operational current rated value         24 A           operating trequency rated value         24 A           operational current tact-3 at 400 V rated value         24 A           operating trequency rated value         24 A           operating trequency rated value         24 A           operating t	product type designation	3MV8	
insulation voltage with degree of pollution 3 at AC rated value       990 V         protection class IP       IP20         • of the terminal       IP20         shock resistance according to IEC 60068-2-27       25g / 11 ms         Weight       0.29 kg         Ambient conditions	General technical data		
protection class IP       IP20         • on the front       IP20         • of the terminal       IP20         • of the terminal       IP20         • shock resistance according to IEC 60068-2-27       Z5g / 11 ms         Weight       0.29 kg         Ambient conditions       Installation altitude at height above sea level maximum         ambient temperature       •         • during operation       -20 +55 °C         • during transport       -25 +70 °C         Main circuit       3         adjustable current response value current of the current-       16 A         operating voltage       •         • tated value       690 V         operational current at AC-3 rated value       50 60 Hz         operational current at AC-3 at 400 V rated value       24 A         operational current at AC-3 at 400 V rated value       24 A         operationing frequency at AC-3 maximum       25 1/h         Protective and monitoring functions       thermal         trip class       CLASS 10A         design of the overload release       thermal         maximum short-circuit current breaking capacity (lcu) at AC at       100 kA         400 V rated value       29 A         Short-circuit protection	power loss [W] total typical	6 W	
• on the front     IP20       • of the terminal     IP20       shock resistance according to IEC 60068-2-27     25g / 11 ms       Weight     0.29 kg       Amblent conditions     0.29 kg       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     3       number of poles for main current circuit     3       adjustable current response value current of the current-     dependent overload release initial value       operating voltage     690 V       • at AC-3 rated value     690 V       operating frequency rated value     50 60 Hz       operating frequency rated value     24 A       operating frequency at AC-3 naximum     25 1/h       Protective and monitoring functions     thermal       trip class     CLASS 10A       design of the overload release     thermal       maximum short-circuit current breaking capacity (Ice) at AC at 100 kA     100 kA       400 V rated value     29 A       Short-circuit protection     Yes       maximum short-circuit trip     magnetic	insulation voltage with degree of pollution 3 at AC rated value	690 V	
• of the terminal     IP20       shock resistance according to IEC 60068-2:27     25g / 11 ms       Weight     0.29 kg       Ambient conditions	protection class IP		
shock resistance according to IEC 60068-2-27     25g / 11 ms       Weight     0.29 kg       Ambient conditions	• on the front	IP20	
Weight       0.29 kg         Ambient conditions       installation altitude at height above sea level maximum       2 000 m         ambient temperature       -20 +55 °C       -         • during operation       -20 +55 °C       -         • during potention       -25 +70 °C         Main circuit       3         number of poles for main current circuit       3         adjustable current response value current of the current-dependent overload release initial value       690 V         • at AC-3 rated value maximum       690 V         • at AC-3 rated value maximum       690 V         • operating frequency rated value       50 60 Hz         operational current rated value       2.4 A         operational current at AC-3 at 400 V rated value       2.4 A         operating frequency at AC-3 maximum       25 1/h         Protective and monitoring functions       trip class         trip class       CLASS 10A         design of the overload release       thermal         maximum short-circuit current breaking capacity (Icu) at AC at       400 V rated value         operating short-circuit current breaking capacity (Icu) at AC at       400 V rated value         operating short-circuit current breaking capacity (Icu) at AC at       400 V rated value         operating shor	<ul> <li>of the terminal</li> </ul>	IP20	
Ambient conditions         installation altitude at height above sea level maximum       2 000 m         ambient temperature <ul> <li>during operation</li> <li>-20 +55 °C</li> <li>during transport</li> <li>-25 +70 °C</li> </ul> Main circuit       3         adjustable current response value current of the current- dependent overload release initial value       690 V         operating voltage       690 V         • at AC-3 rated value       690 V         operating requency rated value       690 V         operating requency rated value       50 60 Hz         operating frequency at AC-3 rated value       24 A         operating frequency at AC-3 rated value       25 1/h         Protective and monitoring functions       25 1/h         trip class       CLASS 10A         design of the overload release       thermal         maximum short-circuit current breaking capacity (lcu) at AC at 400 V rated value       100 kA         operating short-circuit current breaking capacity (lcs) at AC at 400 V rated value       29 A         Short-circuit protection       Yes         maximum short-circuit trip totection       Yes         response value current of instantaneous short-circuit trip unit       29 A         Short-	shock resistance according to IEC 60068-2-27	25g / 11 ms	
installation altitude at height above sea level maximum     2 000 m       ambient temperature     -20 +55 °C       • during transport     -20 +55 °C       • during transport     -25 +70 °C       Main circuit     3       number of poles for main current circuit     3       adjustable current response value current of the current- dependent overload release initial value     690 V       • at AC-3 rated value     690 V       • at AC-3 rated value     690 V       • at AC-3 rated value     50 60 Hz       operational current rated value     2.4 A       operational current at AC-3 maximum     25 1/h       Protective and monitoring functions     100 KA       trip class     CLASS 10A       design of the overload release     thermal       maximum short-circuit current breaking capacity (lcu) at AC at     100 KA       v00 V rated value     29 A       Short-circuit protection     Yes       medictin protection     Yes	Weight	0.29 kg	
ambient temperature       -20 +55 °C         • during transport       -25 +70 °C         Main circuit       3         number of poles for main current circuit       3         adjustable current response value current of the current- dependent overload release initial value       690 V         • rated value       690 V         • e at AC-3 rated value maximum       690 V         operating frequency rated value       50 60 Hz         operating frequency rated value       2.4 A         operating frequency at AC-3 at 400 V rated value       2.4 A         operating frequency at AC-3 maximum       25 1/h         Protective and monitoring functions       trip class         trip class       CLASS 10A         design of the overload release       thermal         maximum short-circuit current breaking capacity (lcu) at AC at 400 V rated value       100 kA         operating short-circuit current breaking capacity (lcu) at AC at 400 V rated value       100 kA         operating short-circuit protection       Yes         maximum short-circuit protection       Yes         mespine short-circuit trip       magnetic	Ambient conditions		
• during operation       -20 +55 °C         • during transport       -25 +70 °C         Main circuit       3         number of poles for main current circuit       3         adjustable current response value current of the current- dependent overload release initial value       690 V         • ated value       690 V         • at AC-3 rated value maximum       690 V         • operating frequency rated value       50 60 Hz         operational current at AC-3 at 400 V rated value       24 A         operating frequency at AC-3 maximum       25 1/h         Protective and monitoring functions       trip class         trip class       CLASS 10A         design of the overload release       thermal         maximum short-circuit current breaking capacity (Icu) at AC at       100 kA         vol V rated value       29 A         Short-circuit protection       Yes         response value current of instantaneous short-circuit trip unit       29 A	installation altitude at height above sea level maximum	2 000 m	
• during transport       -25 +70 °C         Main circuit       3         adjustable current response value current of the current- dependent overload release initial value       3         operating voltage       690 V         • rated value       690 V         • at AC-3 rated value maximum       690 V         operating frequency rated value       50 60 Hz         operational current rated value       24 A         operating frequency rated value       25 1/h         Protective and monitoring functions       25 1/h         trip class       CLASS 10A         design of the overload release       thermal         maximum short-circuit current breaking capacity (Icu) at AC at 400 V rated value       100 kA         operating short-circuit current breaking capacity (Icu) at AC at 400 V rated value       100 kA         operating short-circuit current breaking capacity (Icu) at AC at 400 V rated value       100 kA         operating short-circuit current preaking capacity (Icu) at AC at 400 V rated value       100 kA         operating short-circuit current preaking capacity (Icu) at AC at 400 V rated value       100 kA         operating short-circuit protection       Yes         response value current of instantaneous short-circuit trip unit       29 A	ambient temperature		
Main circuit       3         adjustable current response value current of the current- dependent overload release initial value       1.6 A         operating voltage       1.6 A         • rated value       690 V         • at AC-3 rated value maximum       690 V         operating frequency rated value       50 60 Hz         operational current rated value       2.4 A         operating frequency at AC-3 at 400 V rated value       2.4 A         operating frequency at AC-3 maximum       25 1/h         Protective and monitoring functions       thermal         trip class       CLASS 10A         design of the overload release pacity (Icu) at AC at       100 kA         400 V rated value       100 kA         operating short-circuit current breaking capacity (Icu) at AC at       100 kA         operating short-circuit current of instantaneous short-circuit trip unit       29 A	<ul> <li>during operation</li> </ul>	-20 +55 °C	
number of poles for main current circuit       3         adjustable current response value current of the current- dependent overload release initial value       1.6 A         operating voltage <ul> <li>itated value</li> <li>690 V</li> <li>etated value maximum</li> <li>690 V</li> <li>operating frequency rated value</li> <li>50 60 Hz</li> </ul> operating frequency rated value       50 60 Hz         operating frequency rated value       2.4 A         operating frequency at AC-3 maximum       25 1/h         Protective and monitoring functions       trip class         trip class       CLASS 10A         design of the overload release       thermal         maximum short-circuit current breaking capacity (Icu) at AC at       100 kA         400 V rated value       29 A         Short-circuit protection       Yes         product function short circuit trip       magnetic	during transport	-25 +70 °C	
adjustable current response value current of the current- dependent overload release initial value       1.6 A         operating voltage <ul> <li>rated value</li> <li>690 V</li> <li>at AC-3 rated value maximum</li> <li>690 V</li> </ul> operating frequency rated value       50 60 Hz         operational current rated value       24 A         operating frequency at AC-3 maximum       25 1/h         Protective and monitoring functions       51 /h         trip class       CLASS 10A         design of the overload release       thermal         maximum short-circuit current breaking capacity (Icu) at AC at 400 V rated value       100 kA         operating short-circuit current breaking capacity (Ics) at AC at 400 V rated value       29 A         Short-circuit protection       Yes         product function short circuit trip       magnetic	Main circuit		
dependent overload release initial value     Ministry       operating voltage     690 V       • rated value     690 V       • at AC-3 rated value maximum     690 V       operating frequency rated value     50 60 Hz       operational current rated value     2.4 A       operating frequency at AC-3 at 400 V rated value     2.4 A       operating frequency at AC-3 maximum     25 1/h       Protective and monitoring functions     Entropy       trip class     CLASS 10A       design of the overload release     thermal       maximum short-circuit current breaking capacity (Icu) at AC at 400 V rated value     100 kA       operating short-circuit current breaking capacity (Ics) at AC at 400 V rated value     29 A       Short-circuit protection     Yes       response value current of instantaneous short-circuit trip unit     29 A	number of poles for main current circuit	3	
• rated value         690 V           • at AC-3 rated value maximum         690 V           operating frequency rated value         50 60 Hz           operational current rated value         2.4 A           operational current at AC-3 at 400 V rated value         2.4 A           operating frequency at AC-3 maximum         25 1/h           Protective and monitoring functions         25 1/h           trip class         CLASS 10A           design of the overload release         thermal           maximum short-circuit current breaking capacity (Icu) at AC at 400 V rated value         100 kA           operating short-circuit current breaking capacity (Ics) at AC at 400 V rated value         100 kA           operating short-circuit protection         29 A           Short-circuit protection         Yes           product function short circuit protection         Yes           design of the short-circuit trip         magnetic		1.6 A	
• at AC-3 rated value maximum         690 V           operating frequency rated value         50 60 Hz           operational current rated value         2.4 A           operational current at AC-3 at 400 V rated value         2.4 A           operating frequency at AC-3 maximum         25 1/h           Protective and monitoring functions         25 1/h           trip class         CLASS 10A           design of the overload release         thermal           maximum short-circuit current breaking capacity (Icu) at AC at 400 V rated value         100 kA           operating short-circuit current breaking capacity (Ics) at AC at 400 V rated value         100 kA           operating short-circuit protection         29 A           Short-circuit protection         Yes           product function short circuit protection         Yes	operating voltage		
operating frequency rated value50 60 Hzoperational current rated value2.4 Aoperational current at AC-3 at 400 V rated value2.4 Aoperating frequency at AC-3 maximum25 1/hProtective and monitoring functions25 1/htrip classCLASS 10Adesign of the overload releasethermalmaximum short-circuit current breaking capacity (Icu) at AC at 400 V rated value100 kAoperating short-circuit current breaking capacity (Ics) at AC at 400 V rated value100 kAoperating short-circuit current breaking capacity (Ics) at AC at 400 V rated value100 kAoperating short-circuit current breaking capacity (Ics) at AC at 400 V rated value100 kAoperating short-circuit trip unit29 AShort-circuit protectionYesproduct function short circuit protectionYesdesign of the short-circuit tripmagnetic	rated value	690 V	
operational current rated value       2.4 A         operational current at AC-3 at 400 V rated value       2.4 A         operating frequency at AC-3 maximum       25 1/h         Protective and monitoring functions       25 1/h         trip class       CLASS 10A         design of the overload release       thermal         maximum short-circuit current breaking capacity (Icu) at AC at 400 V rated value       100 kA         operating short-circuit current breaking capacity (Ics) at AC at 400 V rated value       100 kA         operating short-circuit current breaking capacity (Ics) at AC at 400 V rated value       100 kA         operating short-circuit current breaking capacity (Ics) at AC at 400 V rated value       100 kA         operation of instantaneous short-circuit trip unit       29 A         Short-circuit protection       Yes         design of the short-circuit trip       magnetic	<ul> <li>at AC-3 rated value maximum</li> </ul>	690 V	
operational current at AC-3 at 400 V rated value2.4 Aoperating frequency at AC-3 maximum25 1/hProtective and monitoring functionstrip classCLASS 10Adesign of the overload releasethermalmaximum short-circuit current breaking capacity (Icu) at AC at 400 V rated value100 kAoperating short-circuit current breaking capacity (Ics) at AC at 400 V rated value100 kAshort-circuit protection29 AShort-circuit protectionYes magneticdesign of the short-circuit tripmagnetic	operating frequency rated value	50 60 Hz	
operating frequency at AC-3 maximum25 1/hProtective and monitoring functionsCLASS 10Atrip classCLASS 10Adesign of the overload releasethermalmaximum short-circuit current breaking capacity (Icu) at AC at 400 V rated value100 kAoperating short-circuit current breaking capacity (Ics) at AC at 400 V rated value100 kAshort-circuit protection29 AShort-circuit protectionYes magneticdesign of the short-circuit tripmagnetic	operational current rated value	2.4 A	
Protective and monitoring functions         trip class       CLASS 10A         design of the overload release       thermal         maximum short-circuit current breaking capacity (lcu) at AC at 400 V rated value       100 kA         operating short-circuit current breaking capacity (lcs) at AC at 400 V rated value       100 kA         operating short-circuit current breaking capacity (lcs) at AC at 400 V rated value       100 kA         short-circuit protection       29 A         Short-circuit protection       Yes         design of the short-circuit trip       magnetic	operational current at AC-3 at 400 V rated value	2.4 A	
trip class       CLASS 10A         design of the overload release       thermal         maximum short-circuit current breaking capacity (Icu) at AC at 400 V rated value       100 kA         operating short-circuit current breaking capacity (Ics) at AC at 400 V rated value       100 kA         operating short-circuit current breaking capacity (Ics) at AC at 400 V rated value       100 kA         response value current of instantaneous short-circuit trip unit       29 A         Short-circuit protection       Yes         design of the short-circuit trip       magnetic	operating frequency at AC-3 maximum	25 1/h	
design of the overload release       thermal         maximum short-circuit current breaking capacity (Icu) at AC at 400 V rated value       100 kA         operating short-circuit current breaking capacity (Ics) at AC at 400 V rated value       100 kA         response value current of instantaneous short-circuit trip unit       29 A         Short-circuit protection       Yes         design of the short-circuit trip       magnetic	Protective and monitoring functions		
maximum short-circuit current breaking capacity (Icu) at AC at 400 V rated value       100 kA         operating short-circuit current breaking capacity (Ics) at AC at 400 V rated value       100 kA         response value current of instantaneous short-circuit trip unit       29 A         Short-circuit protection       Yes         design of the short-circuit trip       magnetic	trip class	CLASS 10A	
400 V rated value     operating short-circuit current breaking capacity (lcs) at AC at 400 V rated value     100 kA       response value current of instantaneous short-circuit trip unit     29 A       Short-circuit protection     Yes       product function short circuit protection     Yes       design of the short-circuit trip     magnetic	design of the overload release	thermal	
400 V rated value     response value current of instantaneous short-circuit trip unit     29 A       Short-circuit protection     29 A       product function short circuit protection     Yes       design of the short-circuit trip     magnetic		100 kA	
Short-circuit protection     Yes       product function short circuit protection     Yes       design of the short-circuit trip     magnetic		100 kA	
product function short circuit protection     Yes       design of the short-circuit trip     magnetic	response value current of instantaneous short-circuit trip unit	29 A	
design of the short-circuit trip magnetic	Short-circuit protection		
	product function short circuit protection	Yes	
Installation/ mounting/ dimensions	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
<ul> <li>backwards</li> </ul>	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 curr circuit	rent Top and bottom
type of connectable conductor cross-sections for main	i contacts
<ul> <li>solid or stranded</li> </ul>	2x (1 6 mm²)
<ul> <li>finely stranded with core end processing</li> </ul>	2x (1 4 mm²)
type of connectable conductor cross-sections for auxil contacts	iary
<ul> <li>solid or stranded</li> </ul>	2x (0.5 2.5 mm²)
<ul> <li>finely stranded with core end processing</li> </ul>	2x (0.5 1.5 mm²)
tightening torque	
<ul> <li>for main contacts with screw-type terminals</li> </ul>	1 1.5 N·m
<ul> <li>for auxiliary contacts with screw-type terminals</li> </ul>	0.8 1.2 N·m
Electrical Safety	
touch protection against electrical shock	finger-safe
pprovals Certificates	
General Product Approval ot	her Environment
CCC CE	Confirmation Environmental Con- firmations

## 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

last modified: