SIEMENS

Data sheet

3MV8100-0MH00



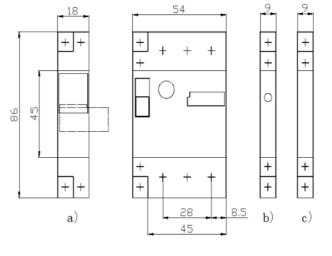
Motor circuit breaker, 1.6-2.4A, for motor protection, with screw terminal

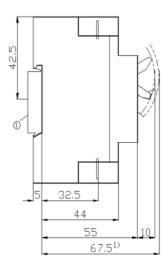
product brand name SINOVA product designation Circuit breaker design of the product for motor protection product type designation 3MV8 Ceneral technical data 600 V protection class IP 600 V • on the front IP20 • of the terminal IP20 ashock resistance according to IEC 60068-2:27 Z5g /11 ms Weight 0.29 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	
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• 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		
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• 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	 at AC-3 rated value maximum 	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		
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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
 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 curr circuit	rent Top and bottom
type of connectable conductor cross-sections for main	i 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 auxil contacts	iary
 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
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: