SIEMENS

Data sheet

3MV8100-0MK00



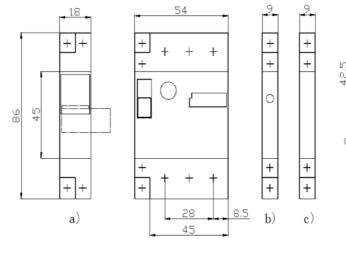
Motor circuit breaker, 4-6A, for motor protection, with screw terminal

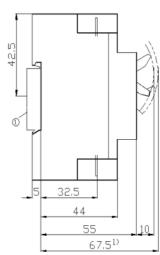
product brand name SINOVA product designation Circuit breaker design of the product for motor protection product type designation 3MV8 General technical data - powor toss (M) total ypical 7 W insulation voltage with degree of pollution 3 at AC rated value 680 V protection class IP - • on the fort IP20 • of the terminal IP20 shock resistance according to IEC 60068-2:27 25g /11 ms Weight 0.29 kg Ambient conditions - installation allitude at height above sea level maximum 2 000 m adjustable at height above sea level maximum 2 000 m adjustable current circuit 3 adjustable current circuit 3 adjustable current circuit 4A operating voltage - • at AC-3 rated value 660 V • at AC-3 rated value 600 V • at AC-3 rated value 6A operating frequency rated value 6A operating frequency rated value			
design of the product for motor protection product type designation 3MV3 General technical data 7 W insulation voltage with degree of pollution 3 at AC rated value 680 V protection class IP 920 • on the front IP20 • oth the front 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 2000 m ambient memperature - • during operation -20 +55 °C • during operation -20 +55 °C • during operation -20 +05 °C • during operation -20 +01 °C Main circuit 3 adjustable current circuit 3 adjustable current circuit 5 • cated value 690 V • at AC-3 rated value 600 V operating frequency at AC-3 rated value 6A <	product brand name	SINOVA	
product type designation 3MV8 Ceneral technical data	product designation	Circuit breaker	
Construction Document power loss [W] total typical 7 W Insulation voltage with degree of pollution 3 at AC rated value 600 V protection class IP 600 V • 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 at litude at height above sea level maximum installation at litude at height above sea level maximum 2 000 m ambient temperature - 400 // at 55 °C • during operation -25 +70 °C Main circuit 3 number of poles for main current circuit 3 adjustable current response value current of the current-dependent varied release initial value 690 V • at AC-3 rated value 690 V • at AC-3 rated value 50 60 Hz operating requency rated value 50 60 Hz operating frequency rated value 6 A operating frequency rated value 6 A operating frequency at AC-3 maximum 25 1/h Protective and monitoring functions	design of the product	for motor protection	
power loss (W) total typical 7 W insulation voltage with degree of pollution 3 at AC rated value 680 V protection class IP 680 V • 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	product type designation	3MV8	
insulation voltage with degree of pollution 3 at AC rated value 690 V protection class IP IP20 • of the font IP20 • of the terminal IP20 shock resistance according to IEC 60068-2-27 25g / 11 ms Weight 0.29 kg Ambient conditions 2000 m installation altitude at height above sea level maximum 2 000 m ambient conditions -20 +55 °C • during operation -20 +55 °C • during transport -20 +55 °C • during transport -20 +55 °C • during operation -20 +55 °C • during transport -20 +55 °C • during operation -20 +55 °C • during transport -20 +55 °C • adjustable current circuit 3 adjustable current circuit 3 • adjustable current circuit 50 • at AC-3 raked value 690 V • operating frequency rated value 6A operating frequency rated value 6A <t< td=""><td colspan="3">General technical data</td></t<>	General technical data		
protection class IP IV • 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 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- 4 A operating voltage - • tatled value 690 V operational current at AC-3 rated value 50 60 Hz operational current at AC-3 at 400 V rated value 6 A operationg frequency 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 400 krated value 6A operational current at AC-3 at 400 vrated value 6A operation frequency at AC-3 maximum 25 1/h Protective and monitoring funcutions 100 kA	power loss [W] total typical	7 W	
• 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 0.20 kg installation altitude at height above sea level maximum 2 000 m ambient temperature - • during operation -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- 4 A operating voltage 690 V • at AC-3 rated value 690 V • operational current rated value 60 Hz operating frequency rated value 6 A operational current rated value 6 A operational current rated value 6 A operational current rated value 6 A operational frequency 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 (Ice) at AC at 100 kA 100 kA 400 V rated value 72 A Short-circuit protection	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 - • during operation -20 +55 °C • during operation -25 +70 °C Main 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 60 Hz operational current rated value 6 A operational current at AC-3 at 400 V rated value 6 A operating frequency at AC-3 at 400 V rated value 6 A operating frequency at AC-3 at 400 V rated value 6 A operating frequency at AC-3 at 400 V rated value 6 A operating frequency at AC-3 active maximum 25 1/h Protective and monitoring functions trip class design of the overload release thermal maximum short-circuit current breaking capacity (Icu) at AC at 400 V rated value 400 V rated value operating ishort-circuit current of instantaneous short-circuit trip unit 72 A Short-circuit protection <td< td=""><td>of the terminal</td><td>IP20</td></td<>	of the terminal	IP20	
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	ambient temperature		
Main circuit 3 adjustable current response value current of the current- dependent overload release initial value 4 A operating voltage 4 A • rated value 690 V • at AC-3 rated value maximum 690 V operating frequency rated value 50 60 Hz operational current rated value 6 A operational current at AC-3 at 400 V rated value 6 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 pacity (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 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 protection Yes response value current of instantaneous short-circuit trip unit 72 A	 during operation 	-20 +55 °C	
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adjustable current response value current of the current- dependent overload release initial value 4 A operating voltage rated value eat AC-3 rated value maximum ego V eat AC-3 rated value operating frequency rated value operating frequency rated value operational current rated value eat AC-3 rate value eat AC-3 rated value eat AC-4 rate value	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 6 A operating frequency at AC-3 at 400 V rated value 6 A operating frequency at AC-3 maximum 25 1/h Protective and monitoring functions Email 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 72 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 6 A operational current at AC-3 at 400 V rated value 6 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 100 kA operating short-circuit current breaking capacity (Ics) at AC at 400 V rated value 100 kA operating short-circuit protection 72 A Short-circuit protection Yes product function short circuit protection Yes		4 A	
• at AC-3 rated value maximum 690 V operating frequency rated value 50 60 Hz operational current rated value 6 A operational current at AC-3 at 400 V rated value 6 A operating frequency at AC-3 maximum 25 1/h Protective and monitoring functions CLASS 10A 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 product function short circuit protection Yes product function short circuit trip Magnetic	operating voltage		
operating frequency rated value50 60 Hzoperational current rated value6 Aoperational current at AC-3 at 400 V rated value6 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 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 unit72 AShort-circuit protectionYesproduct function short circuit protectionYesdesign of the short-circuit tripmagnetic	 rated value 	690 V	
operational current rated value 6 A operational current at AC-3 at 400 V rated value 6 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 operating short-circuit current breaking capacity (Ics) at AC at 400 V rated value 100 kA operating short-circuit trip unit 72 A	 at AC-3 rated value maximum 	690 V	
operational current at AC-3 at 400 V rated value6 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 kAprospective current of instantaneous short-circuit trip unit72 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 protection72 AShort-circuit protectionYes magneticdesign of the short-circuit tripmagnetic	operational current rated value	6 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 72 A Short-circuit protection Yes design of the short-circuit trip magnetic	operational current at AC-3 at 400 V rated value	6 A	
trip 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 of instantaneous short-circuit trip unit72 AShort-circuit protectionYesproduct function short circuit protectionYesdesign of the short-circuit tripmagnetic	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 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 72 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 72 A Short-circuit protection 72 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	72 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		
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
onnections/ Terminals		
type of electrical connection for main current ci	rcuit	screw-type terminals
arrangement of electrical connectors for ma circuit	ain current	Top and bottom
type of connectable conductor cross-sections f	or 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 f contacts	or auxiliary	
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		
		finger-safe
touch protection against electrical shock		
touch protection against electrical shock pprovals Certificates		

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
- b)Short-circuit signalling contact block and/or
- c)Auxiliary contact block

last modified: