SIEMENS

Data sheet

3RV2021-0HA25



Circuit breaker size S0 for motor protection, CLASS 10 A-release 0.55...0.8 A N-release 10 A Spring-type terminal Standard switching capacity with transverse auxiliary switches 1 NO+1 NC

product brand name	SIRIUS		
product brand name	Circuit breaker		
	For motor protection		
design of the product	3RV2		
product type designation	JRV2		
General technical data			
size of the circuit-breaker	SO		
size of contactor can be combined company-specific	S00, S0		
product extension auxiliary switch	Yes		
power loss [W] for rated value of the current			
 at AC in hot operating state 	7.25 W		
 at AC in hot operating state per pole 	2.4 W		
insulation voltage with degree of pollution 3 at AC rated value	690 V		
surge voltage resistance rated value	6 kV		
shock resistance according to IEC 60068-2-27	25g / 11 ms		
mechanical service life (switching cycles)			
 of the main contacts typical 	100 000		
 of auxiliary contacts typical 	100 000		
electrical endurance (switching cycles) typical	100 000		
type of protection according to ATEX directive 2014/34/EU	Ex II (2) GD		
certificate of suitability according to ATEX directive 2014/34/EU	DMT 02 ATEX F 001		
reference code according to IEC 81346-2	Q		
Substance Prohibitance (Date)	10/01/2009		
Ambient conditions			
installation altitude at height above sea level maximum	2 000 m		
ambient temperature			
 during operation 	-20 +60 °C		
 during storage 	-50 +80 °C		
during transport	-50 +80 °C		
relative humidity during operation	10 95 %		
Main circuit			
number of poles for main current circuit	3		
adjustable current response value current of the current-dependent overload release	0.55 0.8 A		
operating voltage			
rated value	20 690 V		
 at AC-3 rated value maximum 	690 V		
 at AC-3e rated value maximum 	690 V		

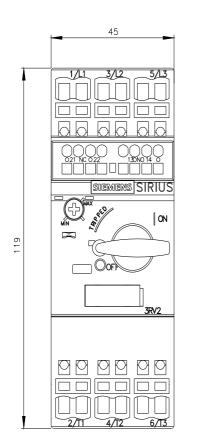
	50 0011-
operating frequency rated value	50 60 Hz
operational current rated value	0.8 A
 operational current at AC-3 at 400 V rated value 	0.8 A
 at AC-3 at 400 V rated value at AC-3e at 400 V rated value 	0.8 A
operating power	0.0 A
• at AC-3	
- at 230 V rated value	0.1 kW
— at 200 V rated value	0.2 kW
— at 500 V rated value	0.2 kW
— at 690 V rated value	0.4 kW
• at AC-3e	0.4 KW
- at 230 V rated value	0.1 kW
— at 200 V rated value	0.2 kW
— at 500 V rated value	0.3 kW
— at 690 V rated value	0.4 kW
operating frequency	0.4 KW
• at AC-3 maximum	15 1/h
• at AC-3 maximum • at AC-3e maximum	15 1/h
Auxiliary circuit	
design of the auxiliary switch	transverse
number of NC contacts for auxiliary contacts	1
number of NO contacts for auxiliary contacts	1
number of CO contacts for auxiliary contacts	0
operational current of auxiliary contacts at AC-15	
• at 24 V	2 A 2 5 A
• at 120 V	0.5 A
• at 125 V	0.5 A
• at 230 V	0.5 A
operational current of auxiliary contacts at DC-13	4.4
● at 24 V ● at 60 V	1 A 0.15 A
	0.15 A
Protective and monitoring functions product function	
ground fault detection	No
phase failure detection	Yes
trip class	CLASS 10
design of the overload release	thermal
breaking capacity maximum short-circuit current (lcu)	ulemai
at AC at 240 V rated value	100 kA
at AC at 400 V rated value	100 KA
	100 KA
 at AC at 500 V rated value at AC at 690 V rated value 	100 KA
breaking capacity operating short-circuit current (lcs)	
at AC	
• at 240 V rated value	100 kA
• at 400 V rated value	100 kA
• at 500 V rated value	100 kA
• at 690 V rated value	100 kA
response value current of instantaneous short-circuit trip unit	10 A
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
• at 480 V rated value	0.8 A
• at 600 V rated value	0.8 A
contact rating of auxiliary contacts according to UL	C300 / R300
Short-circuit protection	
product function short circuit protection	Yes
design of the short-circuit trip	magnetic
design of the short-circuit trip design of the fuse link	magnetic

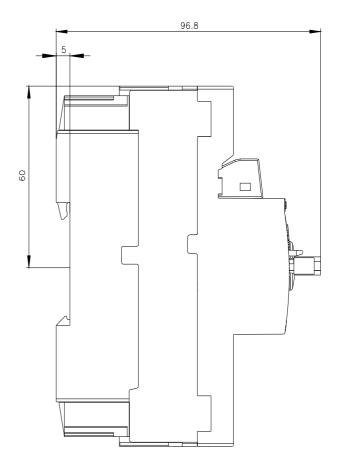
• for short-circuit protection of the auxiliary switch
required

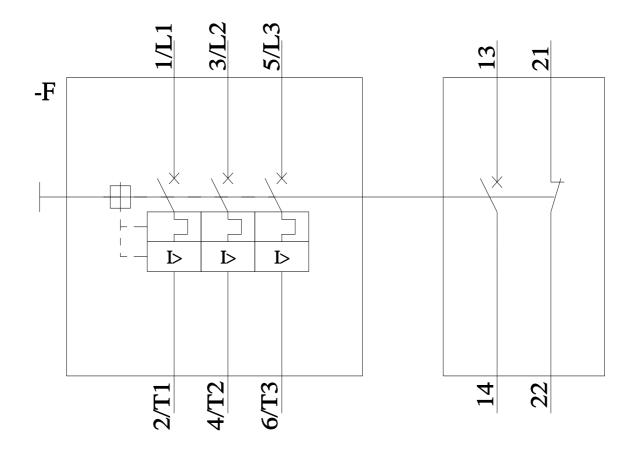
Fuse gL/gG: 10 A, miniature circuit breaker C 6 A (short-circuit current lk < 400 A)

nstallation/ mounting/ dimensions					
mounting position	any				
fastening method	screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715				
height	119 mm				
width	45 mm				
depth	97 mm				
required spacing					
 for grounded parts at 400 V 					
— downwards	30 mm				
— upwards	30 mm				
— at the side	9 mm				
 for live parts at 400 V 					
— downwards	30 mm				
— upwards	30 mm				
— at the side	9 mm				
 for grounded parts at 500 V 					
— downwards	30 mm				
— upwards	30 mm				
— at the side	9 mm				
• for live parts at 500 V					
— downwards	30 mm				
— upwards	30 mm				
— at the side	9 mm				
 for grounded parts at 690 V 					
- downwards	50 mm				
— upwards	50 mm				
— upwards — backwards	0 mm				
— at the side	30 mm				
— forwards	0 mm				
• for live parts at 690 V	50				
— downwards	50 mm				
— upwards	50 mm				
— backwards	0 mm				
— at the side	30 mm				
— forwards	0 mm				
connections/ Terminals					
type of electrical connection					
 for main current circuit 	spring-loaded terminals				
 for auxiliary and control circuit 	spring-loaded 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 10 mm²)				
 finely stranded with core end processing 	2x (1 6 mm ²)				
— finely stranded without core end processing	2x (1 6 mm ²)				
at AWG cables for main contacts	2x (18 8)				
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• at AWG cables for main contacts type of connectable conductor cross-sections	2x (18 8)				
at AWG cables for main contacts type of connectable conductor cross-sections for auxiliary contacts					
at AWG cables for main contacts type of connectable conductor cross-sections for auxiliary contacts — solid or stranded	2x (0.5 2.5 mm²)				
at AWG cables for main contacts type of connectable conductor cross-sections o for auxiliary contacts — solid or stranded — finely stranded with core end processing	2x (0.5 2.5 mm²) 2x (0.5 1.5 mm²)				
at AWG cables for main contacts type of connectable conductor cross-sections o for auxiliary contacts — solid or stranded — finely stranded with core end processing — finely stranded without core end processing	2x (0.5 2.5 mm ²) 2x (0.5 1.5 mm ²) 2x (0.5 1.5 mm ²)				
 at AWG cables for main contacts type of connectable conductor cross-sections for auxiliary contacts – solid or stranded – finely stranded with core end processing – finely stranded without core end processing at AWG cables for auxiliary contacts 	2x (0.5 2.5 mm ²) 2x (0.5 1.5 mm ²) 2x (0.5 1.5 mm ²) 2x (20 14)				
at AWG cables for main contacts type of connectable conductor cross-sections o for auxiliary contacts — solid or stranded — finely stranded with core end processing — finely stranded without core end processing	2x (0.5 2.5 mm ²) 2x (0.5 1.5 mm ²) 2x (0.5 1.5 mm ²)				

 with high dema 	 with high demand rate according to SN 31920 		00					
	proportion of dangerous failures							
• • •	d rate according to SN	31920 50	%					
	with high demand rate according to SN 31920			50 %				
failure rate [FIT]	<u> </u>							
	d rate according to SN	31920 50	FIT					
	t interval or service life		10 y					
IEC 61508				,				
protection class IP o 60529	on the front according	to IEC IP2	IP20					
touch protection on	the front according t	o IEC 60529 fing	finger-safe, for vertical contact from the front					
display version for sw	itching status	Ha	Handle					
Certificates/ approval	S							
General Product Ap	proval				For use in hazard- ous locations			
	<u>Confirmation</u>		U	EHC	ATEX			
For use in hazard- ous locations	Declaration of Con	formity	Test Certificates		Marine / Shipping			
IECE×	UK CA	CE EG-Konf.	Special Test Certific- ate	Type Test Certific- ates/Test Report	ABS			
Marine / Shipping								
BUREAU VERITAS		Lloyd's Register urs	PRS	RINA	RMRS RMRS			
other		Railway						
<u>Confirmation</u>	VDE	Vibration and Shock	<u>Confirmation</u>					
Further information	undersderse (na Duach						
Information- and Downloadcenter (Catalogs, Brochures,) https://www.siemens.com/ic10								
Industry Mall (Online ordering system)								
https://mall.industry.s	https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RV2021-0HA25							
	Cax online generator							
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2021-0HA25 Service&Support (Manuals, Certificates, Characteristics, FAQs,) https://support.industry.siemens.com/cs/ww/en/ps/3RV2021-0HA25								
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,)								
http://www.automatio	http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV2021-0HA25⟨=en							
	ping characteristics, I							
Further characterist	https://support.industry.siemens.com/cs/ww/en/ps/3RV2021-0HA25/char Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2021-0HA25&objecttype=14&gridview=view1							
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