SIEMENS

Product data sheet 3RV1041-4HA10



CIRCUIT-BREAKER SIZE S3, FOR MOTOR PROTECTION, CLASS 10, A-REL. 36...50A, N-REL. 650A, SCREW TERMINAL, STANDARD SWITCHING CAPACITY

General technical data:			
product brand name		SIRIUS	
product designation		circuit breaker	
Size of the circuit-breaker		S3	
Trip class		CLASS 10	
Degree of pollution		3	
Installation altitude / at a height over sea level / maximum	m	2,000	
Protection class IP / on the front		IP20	
Ambient temperature			
during storage	°C	-50 +80	
during operating	°C	-20 +70	
during transport	°C	8050	
Resistance against shock		25g / 11 ms	
Insulation voltage / rated value	V	690	
Impulse voltage resistance / rated value	V	6,000	
Active power loss / total / typical	W	20	
Item designation			
 according to DIN 40719 extendable after IEC 204-2 / according to IEC 750 		Q	
 according to DIN EN 61346-2 		Q	

Type of the driving mechanism / motor drive No Design of the operating mechanism selector switch	
Design of the operating mechanism selector switch	
Product function	
• overload protection Yes	
• phase disturbance recognition Yes	
Product component	
• auxiliary switch No	
• undervoltage release mechanism No	
• trip indicator No	
Product extension / optional / motor drive Yes	
Main circuit:	
Number of poles / for main current circuit 3	
type of voltage AC/DC	
Operating voltage / at AC-3 / rated value / maximum V 690	
Operating current / at AC-3 / at 400 V / rated value A 50	
Service power / at AC-3	
• at 400 V / rated value kW 22	
Frequency of operation / at AC-3 / according to IEC 60947-6-2 / 1/h 15 maximum	
Arrangement of electrical connectors / for main current circuit front side	
Adjustable response current	
• of the non-delayed short-circuit release A 650 650	
Adjustable response current	
• of the current-dependent overload release A 36 50	
Continuous current / rated value A 50	
Product extension / auxiliary switch Yes	
Auxiliary circuit:	
Number of NC contacts / for auxiliary contacts / instantaneous 0 switching	
Number of NO contacts / for auxiliary contacts / instantaneous 0 switching	
Number of change-over switches / for auxiliary contacts 0	
Inputs/ Outputs:	
Number of digital inputs 0	
Short-circuit:	
Breaking capacity limit short-circuit current (Icu)	
• at 400 V / rated value kA 50	

• at 500 V / rated value	kA	12
at 690 V / rated value	kA	6
Design of the electrical connection / for auxiliary and control current circuit		screw-type terminals
Design of the overcurrent release and short-circuit release		thermomagnetic

Installation/mounting/dimensions:				
Built in orientation		any		
Type of mounting		screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 50022		
Width	mm	70		
Height	mm	165		
Depth	mm	174		
Distance, to be maintained, to the ranks assembly				
• backwards	mm	0		
• sidewards	mm	0		
Product function / removable terminal for auxiliary and control circuit		No		

Connections:		
Design of the electrical connection		
for main current circuit		screw-type terminals with box terminals
Type of the connectable conductor cross-section		
for main contacts		
• solid		2x (2.5 16 mm²)
• stranded		2x (10 50 mm²), 10 70 mm²
• finely stranded		
 with conductor end processing 		2x (2.5 35 mm²), 2.5 50 mm²
for AWG conductors / for main contacts		2x (10 1), 1x (10 2)
Conductor cross section that can be connected / for main contacts		
• solid	mm²	2.5 16
• stranded	mm²	10 70
• stranded wire		
with conductor end processing	mm²	2.5 50

Certificates/approvals:

General Product Approval

For use in hazardous locations





KETI

ROSTEST



 $\frac{\mathsf{DEKRA}\;\mathsf{EXAM,}}{\mathsf{DMT}}$

Test Certificates

Manufacturer

Shipping Approval









GL





other

Manufacturer other

Safety:

Protection against electrical shock

finger-safe

Further information:

Information- and Downloadcenter (Catalogs, Brochures,...)

http://www.siemens.com/industrial-controls/catalogs

Industry Mall (Online ordering system)

http://www.siemens.com/industrial-controls/mall

CAx-Online-Generator

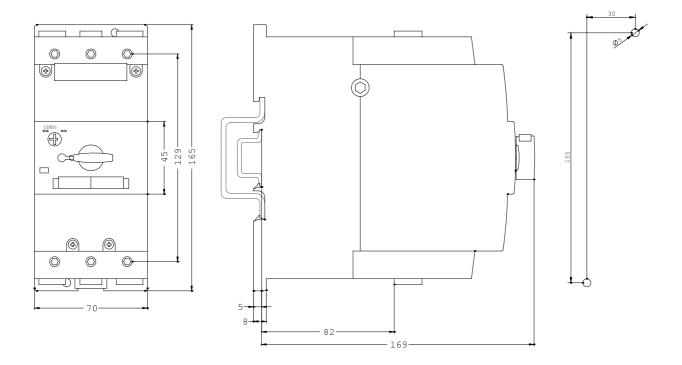
http://www.siemens.com/cax

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

http://support.automation.siemens.com/WW/view/en/3RV1041-4HA10/all

 $Image\ database\ (product\ images,\ 2D\ dimension\ drawings,\ 3D\ models,\ device\ circuit\ diagrams,\ ...)$

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RV1041-4HA10



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