SIEMENS

Data sheet 3RT2516-2AK60



power contactor, AC-3, 9 A, 4 kW / 400 V, 4-pole, 110 V AC, 50 Hz / 120 V, 60 Hz, main contacts: 2 NO + 2 NC, spring-loaded terminal, size: S00

product type designation	product brand name	SIRIUS
Size of contactor product extension • function module for communication • auxiliary switch power loss [W] for rated value of the current • at AC in hot operating state per pole • without load current share typical type of calculation of power loss depending on pole insulation voltage • of main circuit with degree of pollution 3 rated value • of auxiliary circuit with degree of pollution 3 rated value • of auxiliary circuit with degree of pollution 3 rated value • of auxiliary circuit rated value • of auxiliary circuit rated value • of main circuit rated value • of main circuit rated value • of auxiliary circuit rated value • of auxiliary circuit rated value • of auxiliary circuit rated value • of auxiliary circuit rated value • of auxiliary circuit rated value • of auxiliary circuit rated value • of contactor with added electronically optimized • out the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the conta	product designation	contactor
size of contactor product extension • function module for communication • auxiliary switch • auxiliary switch • auxiliary switch • at AC in hot operating state per pole • without load current share typical • at HAC in hot operating state per pole • without load current share typical • or main circuit with degree of pollution 3 rated value • of auxiliary circuit with degree of pollution 3 rated value • of auxiliary circuit with degree of pollution 3 rated value • of auxiliary circuit active value • of auxiliary circuit rated value • of main circuit trated value • of auxiliary circuit rated value • of auxiliary circuit rated value • of will contact according to EN 60947-1 shock resistance at rectangular impulse • at AC • at A	product type designation	3RT25
product extension • function module for communication • auxillary switch power loss [W] for rated value of the current • at AC in hot operating state per pole • without load current share typical type of calculation of power loss depending on pole insulation voltage • of main circuit with degree of pollution 3 rated value • of auxillary circuit with degree of pollution 3 rated value • of auxillary circuit with degree of pollution 3 rated value • of main circuit rated value • of main circuit rated value • of main circuit rated value • of auxillary circuit rated value • of the contactor with sine pulse • at AC forg / 5 ms, 4, 2g / 10 ms shock resistance at rectangular impulse • at AC for ontactor vipical • of tontactor vipical • of the contactor with added electronically optimized auxillary switch block typical • of the contactor with added electronically optimized auxillary switch block typical • of the contactor with added auxillary switch block typical • of the contactor with added auxillary switch block typical • of the contactor with added auxillary switch block typical • of the contactor with added auxillary switch block typical • of the contactor with added auxillary switch block typical • of the contactor with added auxillary switch block typical • of the contactor with added auxillary switch block typical • of the contactor with added auxillary switch block typical • of the contactor with added auxillary switch block typical • of the contactor with added electronically optimized auxillary switch block typical • of the contactor with added electronically optimized auxillary switch block typical • of the contactor with added electronically optimized auxillary switch block typical • of the contactor with added electronica	General technical data	
function module for communication auxiliary switch Yes	size of contactor	S00
auxiliary switch power loss [W] for rated value of the current at AC in hot operating state per pole without load current share typical 1.2 W type of calculation of power loss depending on pole insulation voltage of main circuit with degree of pollution 3 rated value of auxiliary circuit with degree of pollution 3 rated value of auxiliary circuit with degree of pollution 3 rated value of auxiliary circuit with degree of pollution 3 rated value of main circuit rated value of auxiliary circuit rated value of at AC of auxiliary circuit rated value of at AC of auxiliary circuit rated value of the contactor with sine pulse of the contactor with sine pulse of the contactor vith added electronically optimized auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with ad	product extension	
power loss [W] for rated value of the current • at AC in hot operating state per pole • without load current share typical type of calculation of power loss depending on pole insulation voltage • of main circuit with degree of pollution 3 rated value • of auxiliary circuit with degree of pollution 3 rated value • of auxiliary circuit with degree of pollution 3 rated value • of auxiliary circuit with degree of pollution 3 rated value • of main circuit rated value • of main circuit rated value • of fundin circuit rated value • of auxiliary circuit rated value • of xy	 function module for communication 	No
at AC in hot operating state per pole without load current share typical type of calculation of power loss depending on pole insulation voltage of main circuit with degree of pollution 3 rated value of auxiliary circuit with degree of pollution 3 rated value of auxiliary circuit with degree of pollution 3 rated value of auxiliary circuit with degree of pollution 3 rated value of auxiliary circuit rated value of auxiliary sivitch sine pulse of contactor with sine pulse of contactor with sine pulse of contactor with added electronically optimized auxiliary sivitch block typical of the contactor with added electronically optimized auxiliary sivitch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of	auxiliary switch	Yes
without load current share typical type of calculation of power loss depending on pole insulation voltage of main circuit with degree of pollution 3 rated value of auxiliary circuit with degree of pollution 3 rated value of auxiliary circuit rated value of main circuit rated value of main circuit rated value of main circuit rated value of auxiliary circuit rated value of auxiliary circuit rated value of auxiliary circuit rated value of kV maximum permissible voltage for protective separation between coll and main contacts according to EN 60947-1 shock resistance at rectangular impulse of the Contactor with sine pulse of contactor typical of the contactor with added electronically optimized auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor	power loss [W] for rated value of the current	
type of calculation of power loss depending on pole insulation voltage • of main circuit with degree of pollution 3 rated value • of auxiliary circuit with degree of pollution 3 rated value • of auxiliary circuit with degree of pollution 3 rated value • of auxiliary circuit rated value • of main circuit rated value • of main circuit rated value • of auxiliary circuit rated value • of value value • of auxiliary circuit rated value • of value value • of auxiliary circuit rated value • of auxiliary circuit rated value • of value value • of the contactor with added electronically optimized auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary	 at AC in hot operating state per pole 	0.3 W
Insulation voltage • of main circuit with degree of pollution 3 rated value • of auxiliary circuit with degree of pollution 3 rated value 690 V surge voltage resistance • of main circuit rated value 6 kV • of auxiliary circuit rated value 6 kV maximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1 shock resistance at rectangular impulse • at AC shock resistance with sine pulse • at AC 10,5g / 5 ms, 4,2g / 10 ms shock resistance with sine pulse • at AC 10,5g / 5 ms, 6,6g / 10 ms mechanical service life (operating cycles) • of contactor typical 9 of the contactor with added electronically optimized auxiliary switch block typical 9 of the contactor with added auxiliary switch block typical 10 000 000 reference code according to IEC 81346-2 Q Substance Prohibitance (Date) 10/01/2009 Ambient temperature • during operation • during storage 10 000 relative humidity minimum 10 % relative humidity at 55 °C according to IEC 60068-2-30 maximum Environmental footprint	 without load current share typical 	1.2 W
of main circuit with degree of pollution 3 rated value of auxillary circuit with degree of pollution 3 rated value surge voltage resistance of main circuit rated value of auxillary circuit rated value of taxillary circuit rated value of auxillary circuit rated value oxide value	type of calculation of power loss depending on pole	quadratic
of auxillary circuit with degree of pollution 3 rated value surge voltage resistance of main circuit rated value of auxillary circuit rated value aximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1 shock resistance at rectangular impulse ot AC of,7g / 5 ms, 4,2g / 10 ms shock resistance with sine pulse ot AC of contactor typical of contactor typical of the contactor with added electronically optimized auxiliary switch block typical of the contactor with added auxiliary switch block typical of the	insulation voltage	
surge voltage resistance of main circuit rated value of auxiliary circuit rated value of auxiliary circuit rated value of auxiliary circuit rated value of kV maximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1 shock resistance at rectangular impulse of at AC of .7g / 5 ms, 4.2g / 10 ms shock resistance with sine pulse of at AC 10,5g / 5 ms, 6,6g / 10 ms mechanical service life (operating cycles) of contactor typical of the contactor with added electronically optimized auxiliary switch block typical of the contactor with added a	 of main circuit with degree of pollution 3 rated value 	690 V
of main circuit rated value of auxiliary circuit rated value of auxiliary circuit rated value amaximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1 shock resistance at rectangular impulse ot AC of AC of AC of AC of AC in AC	• of auxiliary circuit with degree of pollution 3 rated value	690 V
of auxiliary circuit rated value maximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1 shock resistance at rectangular impulse ot AC shock resistance with sine pulse of contactor typical of the contactor with added electronically optimized auxiliary switch block typical of the contactor with added auxiliary	surge voltage resistance	
maximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1 shock resistance at rectangular impulse • at AC shock resistance with sine pulse • at AC 10,5g / 5 ms, 4,2g / 10 ms mechanical service life (operating cycles) • of contactor typical • of the contactor with added electronically optimized auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical reference code according to IEC 81346-2 Q Substance Prohibitance (Date) Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation • during storage relative humidity minimum relative humidity at 55 °C according to IEC 60068-2-30 maximum Environmental footprint	 of main circuit rated value 	6 kV
shock resistance at rectangular impulse at AC shock resistance with sine pulse at AC at AC shock resistance with sine pulse at AC at AC at AC at AC shock resistance with sine pulse at AC at AC at AC at AC shock resistance with sine pulse at AC	 of auxiliary circuit rated value 	6 kV
at AC shock resistance with sine pulse at AC at		400 V
shock resistance with sine pulse • at AC 10,5g / 5 ms, 6,6g / 10 ms mechanical service life (operating cycles) • of contactor typical • of the contactor with added electronically optimized auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical reference code according to IEC 81346-2 Q Substance Prohibitance (Date) Ambient conditions installation altitude at height above sea level maximum 2 000 m ambient temperature • during operation • during operation • during storage relative humidity minimum 10 % relative humidity at 55 °C according to IEC 60068-2-30 maximum Environmental footprint	shock resistance at rectangular impulse	
• at AC	• at AC	6,7g / 5 ms, 4,2g / 10 ms
mechanical service life (operating cycles) • of contactor typical • of the contactor with added electronically optimized auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical 10 000 000 reference code according to IEC 81346-2 Q Substance Prohibitance (Date) Ambient conditions installation altitude at height above sea level maximum 2 000 m ambient temperature • during operation • during storage -55 +80 °C relative humidity minimum 10 % relative humidity at 55 °C according to IEC 60068-2-30 maximum Environmental footprint	shock resistance with sine pulse	
of contactor typical of the contactor with added electronically optimized auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical 10 000 000 reference code according to IEC 81346-2 Q Substance Prohibitance (Date) Ambient conditions installation altitude at height above sea level maximum 2 000 m ambient temperature oduring operation during operation during storage relative humidity minimum relative humidity minimum relative humidity at 55 °C according to IEC 60068-2-30 maximum Environmental footprint	• at AC	10,5g / 5 ms, 6,6g / 10 ms
of the contactor with added electronically optimized auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical reference code according to IEC 81346-2 Substance Prohibitance (Date) Ambient conditions installation altitude at height above sea level maximum ambient temperature oduring operation during storage during storage relative humidity minimum relative humidity at 55 °C according to IEC 60068-2-30 maximum Environmental footprint	mechanical service life (operating cycles)	
auxiliary switch block typical of the contactor with added auxiliary switch block typical reference code according to IEC 81346-2 Q Substance Prohibitance (Date) Ambient conditions installation altitude at height above sea level maximum ambient temperature oduring operation during storage relative humidity minimum relative humidity at 55 °C according to IEC 60068-2-30 maximum Environmental footprint	of contactor typical	30 000 000
reference code according to IEC 81346-2 Substance Prohibitance (Date) Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation • during storage relative humidity minimum 10 % relative humidity at 55 °C according to IEC 60068-2-30 maximum Environmental footprint		5 000 000
Substance Prohibitance (Date) Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation • during storage relative humidity minimum 10 % relative humidity at 55 °C according to IEC 60068-2-30 maximum Environmental footprint	 of the contactor with added auxiliary switch block typical 	10 000 000
Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation • during storage relative humidity minimum relative humidity at 55 °C according to IEC 60068-2-30 maximum Environmental footprint	reference code according to IEC 81346-2	Q
installation altitude at height above sea level maximum ambient temperature • during operation • during storage relative humidity minimum relative humidity at 55 °C according to IEC 60068-2-30 maximum Environmental footprint	Substance Prohibitance (Date)	10/01/2009
ambient temperature • during operation • during storage • during storage -55 +80 °C relative humidity minimum 10 % relative humidity at 55 °C according to IEC 60068-2-30 maximum Environmental footprint	Ambient conditions	
● during operation ● during storage ● during storage	installation altitude at height above sea level maximum	2 000 m
● during storage relative humidity minimum 10 % relative humidity at 55 °C according to IEC 60068-2-30 maximum Environmental footprint	ambient temperature	
relative humidity minimum relative humidity at 55 °C according to IEC 60068-2-30 maximum Environmental footprint	 during operation 	-25 +60 °C
relative humidity at 55 °C according to IEC 60068-2-30 95 % maximum Environmental footprint	during storage	-55 +80 °C
maximum Environmental footprint	relative humidity minimum	10 %
· · · · · · · · · · · · · · · · · · ·		95 %
Environmental Product Declaration(EPD) Yes	Environmental footprint	
	Environmental Product Declaration(EPD)	Yes

Solicity	Clabal Warreing Patantial ICCO and total	20.6 km
Global Warming Potential (COZ eq.) during operation aumber of Poles for main current circuit **A Control of Poles for main contents aumber of NC contacts for main contacts 2 **A CAC 1 up to 650 V — at a miber temperature 40 °C rated value — at an bent temperature 61 °C rated value — at an bent temperature 61 °C rated value — at an CAC 1 up to 650 V — per NC contact rated value — at 24 V rated value — at 24 V rated value — at 40 °C rated	Global Warming Potential [CO2 eq] total	39.6 kg
According Acco		
Man a credit number of poles for main current circuit number of NC contacts for main contacts 2 number of NC contacts for main contacts 2 - at AC 1 up to 890 V - at a mobinet temperature 40 °C rated value - at an object temperature 40 °C rated value - at an object temperature 60 °C rated value - at AC 2 at AC 3 at AC 2 at AC 3 at AC		
number of NO contacts for main contacts 2 2 2 2 2 2 2 2 2		-0.155 Kg
number of NC contacts for main contacts 2		
Number of NC contacts for main contacts 2	<u> </u>	
a AC-1 up to 80 V		
# at ARC-1 up to 690 V — at ambient temperature 40 °C rated value		
	•	
- at ambient temperature 67 °C rated value	•	40.4
— per NC contact rated value — per NC contact rated value minimum cose-section in main circuit at maximum AC-1 rated value earl 1 current path at DC-1 — at 24 V rated value — at 110 V rated value — at 440 V rated value — at 410 V rated value — at 440 V rated value — at 440 V rated value — at 410 V rated value — at 420 V rated value — at 420 V rated value — at 440 V rated value — at 440 V rated value — at 420 V protect value — at 420 V protect value — at 410 V rated value — at 440 V rated value — at 420 V per NC contact rated value — at 4110 V per NC contact rated value — at 110 V per NC contact rated value — at 110 V per NC contact rated value — at 220 V per NC contact rated value — at 220 V per NC contact rated value — at 220 V per NC contact rated value — at 220 V per NC contact rated value — at 220 V per NC contact rated value — at 220 V per NC contact rated value — at 220 V per NC contact rated value — at 220 V per NC contact rated value — at 220 V per NC contact rated value — at 110 V per NC contact rated value — at 220 V per NC contact rated value — at 110 V per NC contact rated value — at 110 V per NC contact rated value — at 110 V per NC contact rated value — at 110 V per NC contact rated value — at 110 V per NC contact rated value — at 110 V per NC contact rated value — at 110 V per NC contact rated value — at 110 V per NC contact rated value — at 420 V per NC contact rated value — at 110 V per NC contact rated value — at 110 V per NC contact rated value — at 110 V per NC contact rated value — at 420 V per NC contact rated value — at 420 V per NC contact rated value — at 420 V per NC contact rated value — at 420 V per NC contact rated value — at 420 V per NC contact rated value — at 420 V per NC contact rated value — at 420 V per NC contact rated value — at 420 V per NC contact rated value — at 420 V per NC contact ra	•	16 A
— per NC contact rated value 9.A		0.4
Initial and Construct Initial and Init	•	
Poperational current		
- at 1 current path at DC-1 - at 24 V rated value		2.5 mm²
- at 24 V rated value	operational current	
	• at 1 current path at DC-1	
at 240 V rated value	•	16 A
→ with 2 current paths in series at DC-1 → with 2 current paths in series at DC-1 → at 24 V rated value 16 A → at 110 V rated value 1.6 A → at 220 V rated value 0.8 A → at 440 V rated value 0.8 A → at 424 V per NC contact rated value 16 A → at 24 V per NC contact rated value 0.075 A → at 110 V per NC contact rated value 0.075 A → at 120 V per NC contact rated value 0.375 A → at 220 V per NC contact rated value 0.75 A → at 224 V per NC contact rated value 0.75 A → at 24 V per NC contact rated value 16 A → at 220 V per NC contact rated value 0.75 A → at 24 V per NC contact rated value 16 A → at 24 V per NC contact rated value 16 A → at 110 V per NC contact rated value 0.75 A → at 110 V per NC contact rated value 0.35 A operating power at Ac-2 at Ac-3 2 2 kW • at 230 V per NC contact rated value 4 kW • at 400 V per NC contact rated value 4 kW • at 400 V per NC contact rated value 4 kW	— at 110 V rated value	2.1 A
with 2 current paths in series at DC-1	— at 220 V rated value	0.8 A
	— at 440 V rated value	0.6 A
- at 110 V rated value	• with 2 current paths in series at DC-1	
- at 220 V rated value	— at 24 V rated value	16 A
■ at 1 current path at DC-3 at DC-5 ■ at 24 V per NC contact rated value ■ at 24 V per NC contact rated value ■ at 110 V per NC contact rated value ■ at 110 V per NC contact rated value ■ at 110 V per NC contact rated value ■ at 110 V per NC contact rated value ■ at 220 V per NC contact rated value ■ at 220 V per NC contact rated value ■ at 220 V per NC contact rated value ■ at 220 V per NC contact rated value ■ at 220 V per NC contact rated value ■ at 24 V per NC contact rated value ■ at 24 V per NC contact rated value ■ at 24 V per NC contact rated value ■ at 110 V per NC contact rated value ■ at 110 V per NC contact rated value ■ at 110 V per NC contact rated value ■ at 230 V per NC contact rated value ■ at 230 V per NC contact rated value ■ at 230 V per NC contact rated value ■ at 400 V per NC contact rated	— at 110 V rated value	12 A
at 1 current path at DC-3 at DC-5 at 24 V per NC contact rated value at 110 V per NC contact rated value at 220 V per NC contact rated value at 220 V per NC contact rated value o.75 A at 220 V per NC contact rated value o.75 A at 24 V per NC contact rated value at 110 V per NC contact rated value at 230 V per NC contact rated value at 400 V per NC contact rated value initiated to 1 s switching at zero current maximum ilmited to 5 s switching at zero current maximum ilmited to 30 s switching at zero current maximum ilmited to 30 s switching at zero current maximum ilmited to 30 s switching at zero current maximum ilmited to 30 s switching at zero current maximum ilmited to 5 s switching at zero current maximum ilmited to 5 s switching at zero current maximum ilmited to 5 s switching at zero current maximum ilmited to 5 s switching at zero current maximum ilmited to 5 s switching at zero current maximum ilmited to 5 s switching at zero current maximum ilmited to 60 s switching at zero current maximum ilmited to 7 s switching at zero current maximum ilmited to 7 s switching at zero current maximum ilmited to 7 s switching at zero current maximum ilmited to 80 s switching at zero current maximum ilmited to 80 switching at zero current maximum ilmited	— at 220 V rated value	1.6 A
- at 24 V per NC contact rated value - at 24 V per NC contact rated value - at 110 V per NC contact rated value - at 110 V per NC contact rated value - at 110 V per NC contact rated value - at 220 V per NC contact rated value - at 220 V per NC contact rated value - at 220 V per NC contact rated value - at 220 V per NC contact rated value - at 24 V per NC contact rated value - at 24 V per NC contact rated value - at 24 V per NC contact rated value - at 110 V per NC contact rated value - at 110 V per NC contact rated value - at 110 V per NC contact rated value - at 110 V per NC contact rated value - at 110 V per NC contact rated value - at 120 V per NC contact rated value - at 120 V per NC contact rated value - at 120 V per NC contact rated value - at 230 V per NC contact rated value - at 230 V per NC contact rated value - at 400 V per NC contact rated value	— at 440 V rated value	0.8 A
- at 24 V per NO contact rated value - at 110 V per NC contact rated value - at 110 V per NC contact rated value - at 220 V per NO contact rated value - at 220 V per NO contact rated value - at 220 V per NO contact rated value - at 220 V per NO contact rated value - at 220 V per NO contact rated value - at 24 V per NC contact rated value - at 24 V per NC contact rated value - at 24 V per NC contact rated value - at 24 V per NC contact rated value - at 110 V per NC contact rated value - at 110 V per NC contact rated value - at 110 V per NC contact rated value - at 110 V per NC contact rated value - at 230 V per NC contact rated value - at 230 V per NC contact rated value - at 230 V per NC contact rated value - at 400 V per NC contact rated value - at 400 V per NC contact rated value - at 400 V per NC contact rated value - at 400 V per NC contact rated value - al 400 V per NC contact rated value	• at 1 current path at DC-3 at DC-5	
- at 110 V per NC contact rated value - at 220 V per NC contact rated value - at 220 V per NC contact rated value - at 220 V per NC contact rated value - at 220 V per NC contact rated value - at 224 V per NC contact rated value - at 24 V per NC contact rated value - at 24 V per NC contact rated value - at 110 V per NC contact rated value - at 110 V per NC contact rated value - at 110 V per NC contact rated value - at 110 V per NC contact rated value - at 230 V per NC contact rated value - at 230 V per NC contact rated value - at 230 V per NC contact rated value - at 230 V per NC contact rated value - at 230 V per NC contact rated value - at 230 V per NC contact rated value - at 400 V per NC contact rated va	— at 24 V per NC contact rated value	16 A
- at 110 V per NO contact rated value - at 220 V per NC contact rated value - at 220 V per NC contact rated value - at 220 V per NC contact rated value - with 2 current paths in series at DC-3 at DC-5 - at 24 V per NC contact rated value - at 24 V per NC contact rated value - at 110 V per NC contact rated value - at 110 V per NC contact rated value - at 110 V per NC contact rated value - at 110 V per NC contact rated value - at 110 V per NC contact rated value - at 230 V per NC contact rated value - at 230 V per NC contact rated value - at 400 V per NC conta	 — at 24 V per NO contact rated value 	16 A
- at 220 V per NC contact rated value - at 220 V per NO contact rated value • with 2 current paths in series at DC-3 at DC-5 - at 24 V per NC contact rated value - at 24 V per NC contact rated value - at 110 V per NC contact rated value - at 110 V per NC contact rated value - at 110 V per NC contact rated value - at 110 V per NC contact rated value - at 230 V per NC contact rated value - at 230 V per NC contact rated value - at 230 V per NC contact rated value - at 230 V per NC contact rated value - at 400 V per NC contact rated value - at 400 V per NC contact rated value - at withstand current in cold operating state up to 40 °C - limited to 1 s switching at zero current maximum - limited to 10 s switching at zero current maximum - limited to 60 s switching at zero current maximum - l	— at 110 V per NC contact rated value	0.075 A
- at 220 V per NO contact rated value • with 2 current paths in series at DC-3 at DC-5 - at 24 V per NC contact rated value - at 24 V per NC contact rated value - at 110 V per NC contact rated value - at 110 V per NC contact rated value 0.175 A - at 110 V per NC contact rated value 0.35 A operating power at AC-2 at AC-3 • at 230 V per NC contact rated value • at 230 V per NC contact rated value • at 400 V per NC contact rated value • at 400 V per NC contact rated value • at 400 V per NO contact rated value • at 400 V per NO contact rated value • at 400 V ser NO contact rated value • limited to 1 s switching at zero current maximum • limited to 1 s switching at zero current maximum • limited to 30 s switching at zero current maximum • limited to 50 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to	— at 110 V per NO contact rated value	0.15 A
with 2 current paths in series at DC-3 at DC-5 — at 24 V per NC contact rated value	— at 220 V per NC contact rated value	0.375 A
- at 24 V per NC contact rated value - at 24 V per NO contact rated value - at 110 V per NC contact rated value - at 110 V per NC contact rated value - at 110 V per NC contact rated value 0.175 A - at 230 V per NC contact rated value 2.2 kW • at 230 V per NC contact rated value • at 400 V per NO contact rated value • at 400 V per NC contact rated value • at 400 V per NC contact rated value • at 400 V per NC contact rated value • at 400 V per NC contact rated value • it with the value of the value of the operational current per conductor • limited to 1 s switching at zero current maximum • limited to 5 s switching at zero current maximum • limited to 30 s switching at zero current maximum • limited to 60 s switching at Zero current maximum • limited to 60 s switching at Zero current maximum • limited to 60 s switching at Zero current maxi	— at 220 V per NO contact rated value	0.75 A
- at 24 V per NO contact rated value - at 110 V per NC contact rated value - at 110 V per NC contact rated value - at 110 V per NO contact rated value 0.175 A 0.35 A operating power at AC-2 at AC-3 • at 230 V per NC contact rated value • at 230 V per NO contact rated value • at 400 V per NC contact rated value • at 400 V per NC contact rated value • at 400 V per NO contact rated value • at 400 V per NO contact rated value • bimited to 1 s switching at zero current maximum • limited to 1 s switching at zero current maximum • limited to 10 s switching at zero current maximum • limited to 30 s switching at zero current maximum • limited to 30 s switching at zero current maximum • limited to 6 s switching at zero current maximum • limited to 6 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum 54 A; Use minimum cross-section acc. to AC-1 rated value 0.3 W power loss [W] at AC-3e at 400 V for rated value of the operational current per conductor power loss [W] at AC-3e at 400 V for rated value of the operational current per conductor 10 000 1/h • at DC 10 000 1/h 10 000 1/h	 with 2 current paths in series at DC-3 at DC-5 	
- at 110 V per NC contact rated value -at 110 V per NO contact rated value 0.35 A operating power at AC-2 at AC-3 • at 230 V per NC contact rated value at 230 V per NC contact rated value • at 400 V per NC contact rated value • at 400 V per NC contact rated value • at 400 V per NC contact rated value • at 400 V per NC contact rated value • at 400 V per NC contact rated value • at 400 V per NC contact rated value • bimited to 1 s switching at zero current maximum • limited to 5 s switching at zero current maximum • limited to 10 s switching at zero current maximum • limited to 10 s switching at zero current maximum • limited to 30 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • loss [W] at AC-3 at 400 V for rated value of the operational current per conductor power loss [W] at AC-3 at 400 V for rated value of the operational current per conductor no-load switching frequency • at AC • at DC 10 000 1/h operating frequency • at AC-1 maximum 1000 1/h	— at 24 V per NC contact rated value	16 A
- at 110 V per NO contact rated value operating power at AC-2 at AC-3 • at 230 V per NC contact rated value • at 230 V per NC contact rated value • at 400 V per NC contact rated value • at 400 V per NC contact rated value • at 400 V per NC contact rated value • at 400 V per NC contact rated value • at 400 V per NC contact rated value • birnt-time withstand current in cold operating state up to 4 kW short-time withstand current in cold operating state up to 40 °C • limited to 1 s switching at zero current maximum • limited to 5 s switching at zero current maximum • limited to 10 s switching at zero current maximum • limited to 30 s switching at zero current maximum • limited to 30 s switching at zero current maximum • limited to 60 s switching at zero current maximum 54 A; Use minimum cross-section acc. to AC-1 rated value ilmited to 60 s switching at zero current maximum 54 A; Use minimum cross-section acc. to AC-1 rated value opower loss [W] at AC-3 at 400 V for rated value of the operational current per conductor power loss [W] at AC-3 at 400 V for rated value of the operational current per conductor no-load switching frequency • at AC 10 000 1/h operating frequency • at AC-1 maximum 1 000 1/h	 at 24 V per NO contact rated value 	16 A
operating power at AC-2 at AC-3 • at 230 V per NC contact rated value • at 230 V per NC contact rated value • at 400 V per NC contact rated value • at 400 V per NC contact rated value • at 400 V per NC contact rated value • at 400 V per NC contact rated value • At WW **Short-time withstand current in cold operating state up to 40 °C • Ilimited to 1 s switching at zero current maximum • Ilimited to 5 s switching at zero current maximum • Ilimited to 10 s switching at zero current maximum • Ilimited to 10 s switching at zero current maximum • Ilimited to 30 s switching at zero current maximum • Ilimited to 60 s switching at zero current maximum • Ilimited to 60 s switching at zero current maximum • Ilimited to 60 s switching at zero current maximum 54 A; Use minimum cross-section acc. to AC-1 rated value power loss [W] at AC-3 at 400 V for rated value of the operational current per conductor power loss [W] at AC-3 at 400 V for rated value of the operational current per conductor no-load switching frequency • at AC • at DC 10 000 1/h 10 000 1/h 10 000 1/h 10 000 1/h	— at 110 V per NC contact rated value	0.175 A
 at 230 V per NC contact rated value at 230 V per NO contact rated value at 400 V per NC contact rated value at 400 V per NO contact rated value 4 kW at 400 V per NO contact rated value 4 kW short-time withstand current in cold operating state up to 40 °C limited to 1 s switching at zero current maximum limited to 5 s switching at zero current maximum limited to 10 s switching at zero current maximum limited to 30 s switching at zero current maximum limited to 30 s switching at zero current maximum limited to 60 s switching at zero current maximum limited to 60 s switching at zero current maximum limited to 60 s switching at zero current maximum 4 ky use minimum cross-section acc. to AC-1 rated value limited to 60 s switching at zero current maximum 4 ky use minimum cross-section acc. to AC-1 rated value limited to 60 s switching at zero current maximum 34 ky use minimum cross-section acc. to AC-1 rated value 30 w 30 000 1/h 	— at 110 V per NO contact rated value	0.35 A
 at 230 V per NO contact rated value at 400 V per NC contact rated value 4 kW at 400 V per NO contact rated value 4 kW short-time withstand current in cold operating state up to 40 °C 6 limited to 1 s switching at zero current maximum 6 limited to 5 s switching at zero current maximum 86 A; Use minimum cross-section acc. to AC-1 rated value 86 A; Use minimum cross-section acc. to AC-1 rated value 86 A; Use minimum cross-section acc. to AC-1 rated value 86 A; Use minimum cross-section acc. to AC-1 rated value 86 A; Use minimum cross-section acc. to AC-1 rated value 86 A; Use minimum cross-section acc. to AC-1 rated value 86 A; Use minimum cross-section acc. to AC-1 rated value 86 A; Use minimum cross-section acc. to AC-1 rated value 86 A; Use minimum cross-section acc. to AC-1 rated value 86 A; Use minimum cross-section acc. to AC-1 rated value 86 A; Use minimum cross-section acc. to AC-1 rated value 86 A; Use minimum cross-section acc. to AC-1 rated value 86 A; Use minimum cross-section acc. to AC-1 rated value 86 A; Use minimum cross-section acc. to AC-1 rated value 86 A; Use minimum cross-section acc. to AC-1 rated value 86 A; Use minimum cross-section acc. to AC-1 rated value 86 A; Use minimum cross-section acc. to AC-1 rated value 86 A; Use minimum cross-section acc. to AC-1 rated value 86 A; Use minimum cross-section acc. to AC-1 rated value 86 A; Use minimum cross-section acc. to AC-1 rated value 86 A; Use minimum cross-section acc. to AC-1 rated value 86 A; Use minimum cross-section acc. to AC-1 rated value 86 A; Use minimum cross-section acc. to AC-1 rated value 86 A; Use minimum cross-section acc. to AC-1 rated value 86 A; Use minimum cross-section acc. to AC-1 rated value 86 A; Use minimum cross-sectio	operating power at AC-2 at AC-3	
 at 400 V per NC contact rated value at 400 V per NO contact rated value 4 kW short-time withstand current in cold operating state up to 40 °C limited to 1 s switching at zero current maximum limited to 5 s switching at zero current maximum limited to 10 s switching at zero current maximum limited to 10 s switching at zero current maximum limited to 30 s switching at zero current maximum limited to 60 s switching at zero current maximum limited to 60 s switching at zero current maximum limited to 60 s switching at zero current maximum limited to 60 s switching at zero current maximum 4 A; Use minimum cross-section acc. to AC-1 rated value limited to 60 s switching at zero current maximum 34 A; Use minimum cross-section acc. to AC-1 rated value 30 W acc. to AC-1 rated value acc. to AC-1 rat	• at 230 V per NC contact rated value	2.2 kW
at 400 V per NO contact rated value short-time withstand current in cold operating state up to 40 °C alimited to 1 s switching at zero current maximum alimited to 5 s switching at zero current maximum alimited to 10 s switching at zero current maximum alimited to 10 s switching at zero current maximum alimited to 10 s switching at zero current maximum alimited to 30 s switching at zero current maximum alimited to 60 s switching at zero current maximum blimited to 60 s switching at zero current maximum blimited to 60 s switching at zero current maximum color at AC-1 rated value color at AC-1 rate	• at 230 V per NO contact rated value	2.2 kW
short-time withstand current in cold operating state up to 40 °C • limited to 1 s switching at zero current maximum 110 A; Use minimum cross-section acc. to AC-1 rated value • limited to 5 s switching at zero current maximum 86 A; Use minimum cross-section acc. to AC-1 rated value • limited to 30 s switching at zero current maximum 66 A; Use minimum cross-section acc. to AC-1 rated value • limited to 60 s switching at zero current maximum 54 A; Use minimum cross-section acc. to AC-1 rated value power loss [W] at AC-3 at 400 V for rated value of the operational current per conductor power loss [W] at AC-3e at 400 V for rated value of the operational current per conductor no-load switching frequency • at AC • at DC 10 000 1/h operating frequency • at AC-1 maximum 1 000 1/h	• at 400 V per NC contact rated value	4 kW
• limited to 1 s switching at zero current maximum • limited to 5 s switching at zero current maximum • limited to 10 s switching at zero current maximum • limited to 10 s switching at zero current maximum • limited to 30 s switching at zero current maximum • limited to 30 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 10 s switching at zero current maximum • limited to 10 s switching at zero current maximum • limited to 10 s switching at zero current maximum • limited to 10 s switching at zero current maximum • limited to 10 s switching at zero current maximum • limited to 10 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum	• at 400 V per NO contact rated value	4 kW
 limited to 5 s switching at zero current maximum limited to 10 s switching at zero current maximum limited to 30 s switching at zero current maximum limited to 30 s switching at zero current maximum limited to 60 s switching at zero current maximum limited to 60 s switching at zero current maximum limited to 60 s switching at zero current maximum limited to 60 s switching at zero current maximum limited to 60 s switching at zero current maximum limited to 60 s switching at zero current maximum limited to 30 s switching at zero current maximum limited to 30 s switching at zero current maximum limited to 30 s switching at zero current maximum limited to 30 s switching at zero current maximum limited to 30 s switching at zero current maximum limited to 30 s switching at zero current maximum lo 3 W limited to 30 s switching at zero current maximum limited to 30 s switching at zero current maximum limited to 30 s switching at zero current maximum lo 3 W limited to 4C-1 rated value lo 3 W lo 4 W		
 limited to 10 s switching at zero current maximum limited to 30 s switching at zero current maximum limited to 60 s switching at zero current maximum limited to 60 s switching at zero current maximum power loss [W] at AC-3 at 400 V for rated value of the operational current per conductor power loss [W] at AC-3e at 400 V for rated value of the operational current per conductor no-load switching frequency at AC at DC operating frequency at AC-1 maximum 	 limited to 1 s switching at zero current maximum 	110 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 30 s switching at zero current maximum limited to 60 s switching at zero current maximum 54 A; Use minimum cross-section acc. to AC-1 rated value power loss [W] at AC-3 at 400 V for rated value of the operational current per conductor power loss [W] at AC-3e at 400 V for rated value of the operational current per conductor no-load switching frequency at AC at DC 10 000 1/h operating frequency at AC-1 maximum 1 000 1/h 	 limited to 5 s switching at zero current maximum 	110 A; Use minimum cross-section acc. to AC-1 rated value
● limited to 60 s switching at zero current maximum power loss [W] at AC-3 at 400 V for rated value of the operational current per conductor power loss [W] at AC-3e at 400 V for rated value of the operational current per conductor no-load switching frequency • at AC • at DC operating frequency • at AC-1 maximum 1 000 1/h	 limited to 10 s switching at zero current maximum 	86 A; Use minimum cross-section acc. to AC-1 rated value
power loss [W] at AC-3 at 400 V for rated value of the operational current per conductor power loss [W] at AC-3e at 400 V for rated value of the operational current per conductor no-load switching frequency • at AC • at DC operating frequency • at AC-1 maximum 1 000 1/h	 limited to 30 s switching at zero current maximum 	66 A; Use minimum cross-section acc. to AC-1 rated value
operational current per conductor power loss [W] at AC-3e at 400 V for rated value of the operational current per conductor no-load switching frequency • at AC • at DC operating frequency • at AC-1 maximum 1 000 1/h	• limited to 60 s switching at zero current maximum	54 A; Use minimum cross-section acc. to AC-1 rated value
power loss [W] at AC-3e at 400 V for rated value of the operational current per conductor no-load switching frequency • at AC • at DC operating frequency • at AC-1 maximum 1 000 1/h	•	0.3 W
● at AC 10 000 1/h ● at DC 10 000 1/h operating frequency ● at AC-1 maximum 1 000 1/h	power loss [W] at AC-3e at 400 V for rated value of the	0.3 W
● at DC 10 000 1/h operating frequency ● at AC-1 maximum 1 000 1/h	no-load switching frequency	
operating frequency • at AC-1 maximum 1 000 1/h	• at AC	10 000 1/h
• at AC-1 maximum 1 000 1/h	• at DC	10 000 1/h
	operating frequency	
Control circuit/ Control	• at AC-1 maximum	1 000 1/h
	Control circuit/ Control	

	4.0
type of voltage of the control supply voltage	AC
control supply voltage at AC	
at 50 Hz rated value	110 V
at 60 Hz rated value	120 V
operating range factor control supply voltage rated value of magnet coil at AC	
• at 50 Hz	0.8 1.1
● at 60 Hz	0.8 1.1
apparent pick-up power of magnet coil at AC	31.7 VA
• at 60 Hz	31.7 VA
inductive power factor with closing power of the coil	0.81
• at 60 Hz	0.81
apparent holding power of magnet coil at AC	4.8 VA
• at 60 Hz	4.8 VA
inductive power factor with the holding power of the coil	0.25
• at 60 Hz	0.25
closing delay	
• at AC	9 35 ms
opening delay	
• at AC	4 15 ms
arcing time	10 15 ms
residual current of the electronics for control with signal <0>	
at AC at 230 V maximum permissible	0.003 A
Auxiliary circuit	
number of NC contacts for auxiliary contacts instantaneous contact	0
number of NO contacts for auxiliary contacts instantaneous contact	0
operational current at AC-12 maximum	10 A
operational current at AC-15	
at 230 V rated value	10 A
at 400 V rated value	3 A
operational current at DC-12	
at 48 V rated value	6 A
at 60 V rated value	6 A
at 110 V rated value	3 A
• at 125 V rated value	2 A
at 125 V rated valueat 220 V rated value	2 A 1 A
at 220 V rated value at 600 V rated value operational current at DC-13	1 A
 at 220 V rated value at 600 V rated value operational current at DC-13 at 24 V rated value 	1 A 0.15 A 10 A
at 220 V rated value at 600 V rated value operational current at DC-13	1 A 0.15 A 10 A 2 A
at 220 V rated value at 600 V rated value operational current at DC-13 at 24 V rated value at 48 V rated value at 60 V rated value	1 A 0.15 A 10 A 2 A 2 A
 at 220 V rated value at 600 V rated value operational current at DC-13 at 24 V rated value at 48 V rated value 	1 A 0.15 A 10 A 2 A 2 A 1 A
at 220 V rated value at 600 V rated value operational current at DC-13 at 24 V rated value at 48 V rated value at 60 V rated value	1 A 0.15 A 10 A 2 A 2 A
 at 220 V rated value at 600 V rated value operational current at DC-13 at 24 V rated value at 48 V rated value at 60 V rated value at 110 V rated value 	1 A 0.15 A 10 A 2 A 2 A 1 A
at 220 V rated value at 600 V rated value operational current at DC-13 at 24 V rated value at 48 V rated value at 60 V rated value at 110 V rated value at 220 V rated value at 600 V rated value contact reliability of auxiliary contacts	1 A 0.15 A 10 A 2 A 2 A 1 A 0.3 A
 at 220 V rated value at 600 V rated value operational current at DC-13 at 24 V rated value at 48 V rated value at 60 V rated value at 110 V rated value at 220 V rated value at 600 V rated value 	1 A 0.15 A 10 A 2 A 2 A 1 A 0.3 A 0.1 A
at 220 V rated value at 600 V rated value operational current at DC-13 at 24 V rated value at 48 V rated value at 60 V rated value at 110 V rated value at 220 V rated value at 600 V rated value tat 600 V rated value at 600 V rated value at 600 V rated value contact reliability of auxiliary contacts UL/CSA ratings yielded mechanical performance [hp]	1 A 0.15 A 10 A 2 A 2 A 1 A 0.3 A 0.1 A
at 220 V rated value at 600 V rated value operational current at DC-13 at 24 V rated value at 48 V rated value at 60 V rated value at 110 V rated value at 220 V rated value at 600 V rated value at 600 V rated value for single-phase AC motor at 230 V rated value	1 A 0.15 A 10 A 2 A 2 A 1 A 0.3 A 0.1 A
at 220 V rated value at 600 V rated value operational current at DC-13 at 24 V rated value at 48 V rated value at 60 V rated value at 110 V rated value at 220 V rated value at 600 V rated value at 600 V rated value for 3-phase AC motor at 230 V rated value for 3-phase AC motor at 460/480 V rated value	1 A 0.15 A 10 A 2 A 2 A 1 A 0.3 A 0.1 A 1 faulty switching per 100 million (17 V, 1 mA)
at 220 V rated value at 600 V rated value operational current at DC-13 at 24 V rated value at 48 V rated value at 60 V rated value at 110 V rated value at 220 V rated value at 600 V rated value tontact reliability of auxiliary contacts UL/CSA ratings yielded mechanical performance [hp] for single-phase AC motor at 230 V rated value for 3-phase AC motor at 460/480 V rated value contact rating of auxiliary contacts according to UL	1 A 0.15 A 10 A 2 A 2 A 1 A 0.3 A 0.1 A 1 faulty switching per 100 million (17 V, 1 mA)
at 220 V rated value at 600 V rated value operational current at DC-13 at 24 V rated value at 48 V rated value at 60 V rated value at 110 V rated value at 220 V rated value at 600 V rated value at 600 V rated value for 3-phase AC motor at 230 V rated value for 3-phase AC motor at 460/480 V rated value	1 A 0.15 A 10 A 2 A 2 A 1 A 0.3 A 0.1 A 1 faulty switching per 100 million (17 V, 1 mA)
at 220 V rated value at 600 V rated value operational current at DC-13 at 24 V rated value at 48 V rated value at 60 V rated value at 110 V rated value at 220 V rated value at 600 V rated value tontact reliability of auxiliary contacts UL/CSA ratings yielded mechanical performance [hp] for single-phase AC motor at 230 V rated value for 3-phase AC motor at 460/480 V rated value contact rating of auxiliary contacts according to UL	1 A 0.15 A 10 A 2 A 2 A 1 A 0.3 A 0.1 A 1 faulty switching per 100 million (17 V, 1 mA)
at 220 V rated value at 600 V rated value operational current at DC-13 at 24 V rated value at 48 V rated value at 60 V rated value at 110 V rated value at 220 V rated value at 600 V rated value total of 600 V rated value for single-phase AC motor at 230 V rated value for 3-phase AC motor at 460/480 V rated value contact rating of auxiliary contacts according to UL Short-circuit protection	1 A 0.15 A 10 A 2 A 2 A 1 A 0.3 A 0.1 A 1 faulty switching per 100 million (17 V, 1 mA)
at 220 V rated value at 600 V rated value operational current at DC-13 at 24 V rated value at 48 V rated value at 60 V rated value at 110 V rated value at 220 V rated value at 600 V rated value tontact reliability of auxiliary contacts UL/CSA ratings yielded mechanical performance [hp] for single-phase AC motor at 230 V rated value for 3-phase AC motor at 460/480 V rated value contact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link	1 A 0.15 A 10 A 2 A 2 A 1 A 0.3 A 0.1 A 1 faulty switching per 100 million (17 V, 1 mA)
at 220 V rated value at 600 V rated value operational current at DC-13 at 24 V rated value at 48 V rated value at 60 V rated value at 110 V rated value at 220 V rated value at 600 V rated value at 600 V rated value tontact reliability of auxiliary contacts UL/CSA ratings yielded mechanical performance [hp] for single-phase AC motor at 230 V rated value for 3-phase AC motor at 460/480 V rated value contact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link for short-circuit protection of the main circuit with type of coordination 1 required with type of assignment 2 required	1 A 0.15 A 10 A 2 A 2 A 1 A 0.3 A 0.1 A 1 faulty switching per 100 million (17 V, 1 mA) 1 hp 5 hp A600 / Q600
at 220 V rated value at 600 V rated value operational current at DC-13 at 24 V rated value at 48 V rated value at 60 V rated value at 110 V rated value at 220 V rated value at 600 V rated value at 600 V rated value tontact reliability of auxiliary contacts UL/CSA ratings yielded mechanical performance [hp] for single-phase AC motor at 230 V rated value for 3-phase AC motor at 460/480 V rated value contact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link for short-circuit protection of the main circuit with type of coordination 1 required with type of assignment 2 required for short-circuit protection of the auxiliary switch required	1 A 0.15 A 10 A 2 A 2 A 1 A 0.3 A 0.1 A 1 faulty switching per 100 million (17 V, 1 mA) 1 hp 5 hp A600 / Q600 gG: 35 A (690 V, 100 kA)
at 220 V rated value at 600 V rated value operational current at DC-13 at 24 V rated value at 48 V rated value at 60 V rated value at 110 V rated value at 220 V rated value at 600 V rated value at 600 V rated value tontact reliability of auxiliary contacts UL/CSA ratings yielded mechanical performance [hp] for single-phase AC motor at 230 V rated value for 3-phase AC motor at 460/480 V rated value contact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link for short-circuit protection of the main circuit with type of coordination 1 required with type of assignment 2 required	1 A 0.15 A 10 A 2 A 2 A 1 A 0.3 A 0.1 A 1 faulty switching per 100 million (17 V, 1 mA) 1 hp 5 hp A600 / Q600 gG: 35 A (690 V, 100 kA) gG: 20A (690V, 100kA)
at 220 V rated value at 600 V rated value operational current at DC-13 at 24 V rated value at 48 V rated value at 60 V rated value at 110 V rated value at 220 V rated value at 600 V rated value at 600 V rated value tontact reliability of auxiliary contacts UL/CSA ratings yielded mechanical performance [hp] for single-phase AC motor at 230 V rated value for 3-phase AC motor at 460/480 V rated value contact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link for short-circuit protection of the main circuit with type of coordination 1 required with type of assignment 2 required for short-circuit protection of the auxiliary switch required	1 A 0.15 A 10 A 2 A 2 A 1 A 0.3 A 0.1 A 1 faulty switching per 100 million (17 V, 1 mA) 1 hp 5 hp A600 / Q600 gG: 35 A (690 V, 100 kA) gG: 20A (690V, 100kA)

fastening method	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 50022
height	70 mm
width	45 mm
depth	73 mm
required spacing	
 with side-by-side mounting 	
— forwards	0 mm
— backwards	0 mm
— upwards	0 mm
— downwards	0 mm
— at the side	0 mm
 for grounded parts 	
— forwards	0 mm
— backwards	0 mm
— upwards	0 mm
— at the side	6 mm
— downwards	0 mm
• for live parts	
— forwards	0 mm
— backwards	0 mm
— upwards	0 mm
— downwards	0 mm
— at the side	6 mm
connections/ Terminals	
type of electrical connection	
for main current circuit	spring-loaded terminals
 for auxiliary and control circuit 	spring-loaded terminals
 at contactor for auxiliary contacts 	Spring-type terminals
of magnet coil	Spring-type terminals
type of connectable conductor cross-sections for main contacts	
• solid	2x (0.5 4 mm²)
 solid or stranded 	2x (0,5 4 mm²)
 finely stranded with core end processing 	2x (0.5 2.5 mm²)
finely stranded without core end processing	2x (0.5 2.5 mm²)
type of connectable conductor cross-sections	
 for auxiliary contacts 	
— solid	2x (0.5 4 mm²)
— solid or stranded	2x (0,5 4 mm²)
 finely stranded with core end processing 	2x (0.5 2.5 mm²)
 finely stranded without core end processing 	2x (0.5 2.5 mm²)
for AWG cables for auxiliary contacts	2x (20 12)
AWG number as coded connectable conductor cross section for main contacts	20 12
Safety related data	
product function	
 mirror contact according to IEC 60947-4-1 	Yes; with 3RH29
 positively driven operation according to IEC 60947-5-1 	No
IEC 61508	
T1 value	
 for proof test interval or service life according to IEC 61508 	20 a
Electrical Safety	
protection class IP on the front according to IEC 60529	IP20
touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front
Approvals Certificates	













EMV Functional Saftey Test Certificates Marine / Shipping



Type Examination Certificate

Type Test Certificates/Test Report

Special Test Certificate





Marine / Shipping other









<u>Miscellaneous</u>

Confirmation

Railway Environment

Special Test Certificate



Environmental Confirmations

Further informatior

Information on the packaging

https://support.industry.siemens.com/cs/ww/en/view/109813875

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

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RT2516-2AK60

Cax online generator

 $\underline{\text{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RT2516-2AK60}}$

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT2516-2AK60

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

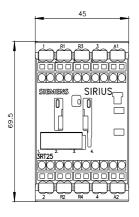
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2516-2AK60&lang=en

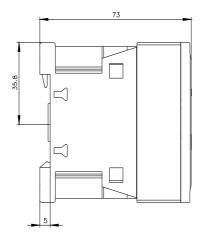
Characteristic: Tripping characteristics, I²t, Let-through current

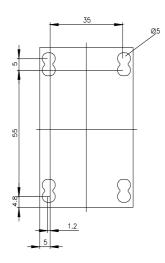
https://support.industry.siemens.com/cs/ww/en/ps/3RT2516-2AK60/char

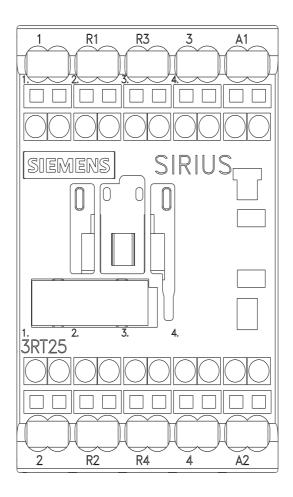
Further characteristics (e.g. electrical endurance, switching frequency)

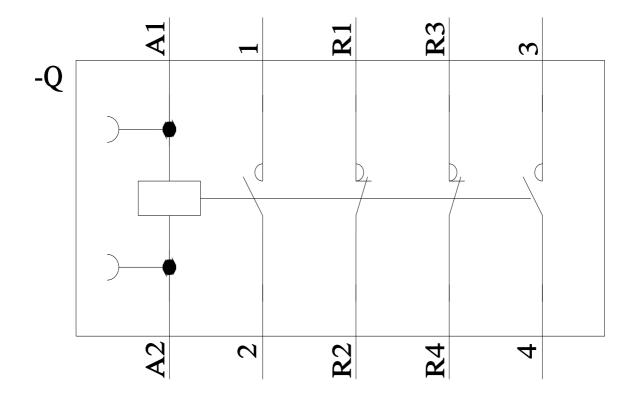
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2516-2AK60&objecttype=14&gridview=view1











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