

power contactor, AC-3 80 A, 37 kW / 400 V 1 NO + 1 NC, 110 V AC
50 Hz 3-pole, 3 NO, Size S3 Spring-type terminal



Product brand name	SIRIUS
Product designation	Power contactor
Product type designation	3RT2
General technical data	
Size of contactor	S3
Product extension	
• function module for communication	No
• Auxiliary switch	Yes
Surge voltage resistance	
• of main circuit rated value	8 kV
• of auxiliary circuit rated value	6 kV
maximum permissible voltage for safe isolation	
• between coil and main contacts acc. to EN 60947-1	690 V
Protection class IP	
• on the front	IP20
• of the terminal	IP00
Shock resistance at rectangular impulse	
• at AC	6.7 g / 5 ms, 4.0 g / 10 ms

Shock resistance with sine pulse	
<ul style="list-style-type: none"> • at AC 	10.6 g / 5 ms, 6.3 g / 10 ms
Mechanical service life (switching cycles)	
<ul style="list-style-type: none"> • of contactor typical 	10 000 000
<ul style="list-style-type: none"> • of the contactor with added electronics-compatible auxiliary switch block typical 	5 000 000
<ul style="list-style-type: none"> • of the contactor with added auxiliary switch block typical 	10 000 000
Reference code acc. to DIN 40719 extended according to IEC 204-2 acc. to IEC 750	K
Reference code acc. to DIN EN 81346-2	Q

Ambient conditions

Installation altitude at height above sea level	
<ul style="list-style-type: none"> • maximum 	2 000 m
Ambient temperature	
<ul style="list-style-type: none"> • during operation 	-25 ... +60 °C
<ul style="list-style-type: none"> • during storage 	-55 ... +80 °C

Main circuit

Number of poles for main current circuit	3
Number of NO contacts for main contacts	3
Operating voltage	
<ul style="list-style-type: none"> • at AC-3 rated value maximum 	1 000 V
Operating current	
<ul style="list-style-type: none"> • at AC-1 at 400 V <ul style="list-style-type: none"> — at ambient temperature 40 °C rated value 	125 A
<ul style="list-style-type: none"> • at AC-1 <ul style="list-style-type: none"> — up to 690 V at ambient temperature 40 °C rated value 	125 A
<ul style="list-style-type: none"> — up to 690 V at ambient temperature 60 °C rated value 	105 A
<ul style="list-style-type: none"> — up to 1000 V at ambient temperature 40 °C rated value 	60 A
<ul style="list-style-type: none"> — up to 1000 V at ambient temperature 60 °C rated value 	50 A
<ul style="list-style-type: none"> • at AC-2 at 400 V rated value 	80 A
<ul style="list-style-type: none"> • at AC-3 <ul style="list-style-type: none"> — at 400 V rated value 	80 A
<ul style="list-style-type: none"> — at 500 V rated value 	80 A
<ul style="list-style-type: none"> — at 690 V rated value 	58 A
<ul style="list-style-type: none"> • at AC-4 at 400 V rated value 	66 A
<ul style="list-style-type: none"> • at AC-5a up to 690 V rated value 	110 A
<ul style="list-style-type: none"> • at AC-5b up to 400 V rated value 	80 A