SIEMENS

Data sheet 3RT1275-6AB36



vacuum contactor, AC-3 400 A, 200 kW / 400 V AC (50-60 Hz) / DC operation 23-26 V AC/DC auxiliary contacts 2 NO + 2 NC 3-pole, frame size S12 busbar connections drive: conventional

product brand name	SIRIUS
product designation	Vacuum contactor
product type designation	3RT12
Seneral technical data	
size of contactor	S12
product extension	
 function module for communication 	No
auxiliary switch	Yes
power loss [W] for rated value of the current	
 at AC in hot operating state 	63 W
 at AC in hot operating state per pole 	21 W
 without load current share typical 	10 W
insulation voltage	
 of main circuit with degree of pollution 3 rated value 	1 000 V
 of auxiliary circuit with degree of pollution 3 rated value 	500 V
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 according to EN 60947-1	690 V
shock resistance at rectangular impulse	
• at AC	8,5g / 5 ms, 4,2g / 10 ms
• at DC	8,5g / 5 ms, 4,2g / 10 ms
shock resistance with sine pulse	
• at AC	13,4g / 5 ms, 6,5g / 10 ms
• at DC	13,4g / 5 ms, 6,5g / 10 ms
mechanical service life (switching cycles)	
of contactor typical	10 000 000
 of the contactor with added electronically optimized auxiliary switch block typical 	5 000 000
 of the contactor with added auxiliary switch block typical 	10 000 000
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	05/01/2012
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
ambient temperature	
during operation	-25 +60 °C
during storage	-55 +80 °C

relative humidity minimum	10 %
relative humidity at 55 °C according to IEC 60068-2-30 maximum	95 %
lain circuit	
	3
number of poles for main current circuit number of NO contacts for main contacts	3
operating voltage	3
	1 000 V
at AC-3 rated value maximum	
at AC-3e rated value maximum	1 000 V
operational current	610 A
 at AC-1 at 400 V at ambient temperature 40 °C rated value 	010 A
• at AC-1	
— up to 690 V at ambient temperature 40 °C	610 A
rated value	
— up to 690 V at ambient temperature 60 °C	550 A
rated value	
— up to 1000 V at ambient temperature 40 °C	610 A
rated value	550 A
 up to 1000 V at ambient temperature 60 °C rated value 	550 A
• at AC-3	
at AC-3 — at 400 V rated value	400 A
— at 500 V rated value	400 A 400 A
— at 690 V rated value — at 690 V rated value	400 A 400 A
	400 A 400 A
— at 1000 V rated value ● at AC-3e	400 A
	400 A
— at 400 V rated value	400 A
— at 500 V rated value	400 A
— at 690 V rated value	400 A
— at 1000 V rated value	400 A
at AC-4 at 400 V rated value	350 A
• at AC-6a	400 A
 up to 230 V for current peak value n=20 rated value 	400 A
— up to 400 V for current peak value n=20 rated	400 A
value	70071
— up to 500 V for current peak value n=20 rated	400 A
value	
— up to 690 V for current peak value n=20 rated	400 A
value	400 A
 up to 1000 V for current peak value n=20 rated value 	400 A
• at AC-6a	
— up to 230 V for current peak value n=30 rated	293 A
value	2007.
— up to 400 V for current peak value n=30 rated	293 A
value	
 up to 500 V for current peak value n=30 rated 	293 A
value	
— up to 690 V for current peak value n=30 rated	293 A
value	202 A
 up to 1000 V for current peak value n=30 rated value 	293 A
minimum cross-section in main circuit at maximum AC-1	370 mm²
rated value	VI V IIIII
operational current for approx. 200000 operating	
cycles at AC-4	
• at 400 V rated value	175 A
at 690 V rated value	175 A
operating power	
• at AC-3	
— at 230 V rated value	132 kW
— at 400 V rated value	200 kW

— at 500 V rated value	250 kW
— at 690 V rated value	400 kW
— at 1000 V rated value	560 kW
• at AC-3e	
— at 230 V rated value	132 kW
— at 400 V rated value	200 kW
— at 500 V rated value	250 kW
— at 690 V rated value	400 kW
— at 1000 V rated value	560 kW
operating power for approx. 200000 operating cycles at AC-4	
 at 400 V rated value 	98 kW
at 690 V rated value	172 kW
operating apparent power at AC-6a	
 up to 230 V for current peak value n=20 rated value 	150 000 kVA
 up to 400 V for current peak value n=20 rated value 	270 000 VA
up to 500 V for current peak value n=20 rated value	340 000 VA
up to 690 V for current peak value n=20 rated value	470 000 VA
• up to 1000 V for current peak value n=20 rated	690 000 VA
value	
operating apparent power at AC-6a	
up to 230 V for current peak value n=30 rated value	110 000 VA
 up to 400 V for current peak value n=30 rated value 	200 000 VA
• up to 500 V for current peak value n=30 rated value	250 000 VA
• up to 690 V for current peak value n=30 rated value	350 000 VA
up to 1000 V for current peak value n=30 rated value	500 000 VA
no-load switching frequency	
• at AC	2 000 1/h
• at DC	2 000 1/h
operating frequency	
• at AC-1 maximum	700 1/h
• at AC-2 maximum	250 1/h
at AC-3 maximum	750 1/h
at AC-3e maximum	750 1/h 750 1/h
• at AC-3e maximum	750 1/h
at AC-3e maximumat AC-4 maximum	
at AC-3e maximumat AC-4 maximumControl circuit/ Control	750 1/h 250 1/h
 at AC-3e maximum at AC-4 maximum Control circuit/ Control type of voltage of the control supply voltage 	750 1/h
at AC-3e maximum at AC-4 maximum Control circuit/ Control type of voltage of the control supply voltage control supply voltage at AC	750 1/h 250 1/h AC/DC
 at AC-3e maximum at AC-4 maximum Control circuit/ Control type of voltage of the control supply voltage control supply voltage at AC at 50 Hz rated value 	750 1/h 250 1/h AC/DC 23 26 V
at AC-3e maximum at AC-4 maximum Control circuit/ Control type of voltage of the control supply voltage control supply voltage at AC at 50 Hz rated value at 60 Hz rated value	750 1/h 250 1/h AC/DC
at AC-3e maximum at AC-4 maximum Control circuit/ Control type of voltage of the control supply voltage control supply voltage at AC at 50 Hz rated value at 60 Hz rated value control supply voltage at DC	750 1/h 250 1/h AC/DC 23 26 V 23 26 V
at AC-3e maximum at AC-4 maximum Control circuit/ Control type of voltage of the control supply voltage control supply voltage at AC at 50 Hz rated value at 60 Hz rated value control supply voltage at DC rated value	750 1/h 250 1/h AC/DC 23 26 V
at AC-3e maximum at AC-4 maximum Control circuit/ Control type of voltage of the control supply voltage control supply voltage at AC at 50 Hz rated value at 60 Hz rated value control supply voltage at DC rated value operating range factor control supply voltage rated value of magnet coil at DC	750 1/h 250 1/h AC/DC 23 26 V 23 26 V
at AC-3e maximum at AC-4 maximum Control circuit/ Control type of voltage of the control supply voltage control supply voltage at AC at 50 Hz rated value at 60 Hz rated value control supply voltage at DC rated value operating range factor control supply voltage rated value of magnet coil at DC initial value	750 1/h 250 1/h AC/DC 23 26 V 23 26 V 23 26 V
at AC-3e maximum at AC-4 maximum Control circuit/ Control type of voltage of the control supply voltage control supply voltage at AC at 50 Hz rated value at 60 Hz rated value control supply voltage at DC rated value operating range factor control supply voltage rated value of magnet coil at DC	750 1/h 250 1/h AC/DC 23 26 V 23 26 V
at AC-3e maximum at AC-4 maximum Control circuit/ Control type of voltage of the control supply voltage control supply voltage at AC at 50 Hz rated value at 60 Hz rated value control supply voltage at DC rated value operating range factor control supply voltage rated value of magnet coil at DC initial value operating range factor control supply voltage rated value of magnet coil at AC	750 1/h 250 1/h AC/DC 23 26 V 23 26 V 0.8 1.1
at AC-3e maximum at AC-4 maximum Control circuit/ Control type of voltage of the control supply voltage control supply voltage at AC at 50 Hz rated value at 60 Hz rated value control supply voltage at DC rated value operating range factor control supply voltage rated value of magnet coil at DC initial value full-scale value operating range factor control supply voltage rated value of magnet value	750 1/h 250 1/h AC/DC 23 26 V 23 26 V 23 26 V
at AC-3e maximum at AC-4 maximum Control circuit/ Control type of voltage of the control supply voltage control supply voltage at AC at 50 Hz rated value at 60 Hz rated value control supply voltage at DC rated value operating range factor control supply voltage rated value of magnet coil at DC initial value operating range factor control supply voltage rated value of magnet coil at AC	750 1/h 250 1/h AC/DC 23 26 V 23 26 V 0.8 1.1
at AC-3e maximum at AC-4 maximum Control circuit/ Control type of voltage of the control supply voltage control supply voltage at AC at 50 Hz rated value at 60 Hz rated value control supply voltage at DC rated value operating range factor control supply voltage rated value of magnet coil at DC initial value full-scale value operating range factor control supply voltage rated value of magnet coil at AC at 50 Hz	750 1/h 250 1/h AC/DC 23 26 V 23 26 V 0.8 1.1
at AC-3e maximum at AC-4 maximum Control circuit/ Control type of voltage of the control supply voltage control supply voltage at AC at 50 Hz rated value at 60 Hz rated value control supply voltage at DC rated value operating range factor control supply voltage rated value of magnet coil at DC initial value full-scale value operating range factor control supply voltage rated value of magnet coil at AC at 50 Hz at 60 Hz	750 1/h 250 1/h AC/DC 23 26 V 23 26 V 23 26 V 0.8 1.1 0.8 1.1 0.8 1.1
at AC-3e maximum at AC-4 maximum Control circuit/ Control type of voltage of the control supply voltage control supply voltage at AC at 50 Hz rated value at 60 Hz rated value control supply voltage at DC rated value operating range factor control supply voltage rated value of magnet coil at DC initial value full-scale value operating range factor control supply voltage rated value of magnet coil at AC at 50 Hz at 60 Hz design of the surge suppressor	750 1/h 250 1/h AC/DC 23 26 V 23 26 V 23 26 V 0.8 1.1 0.8 1.1 0.8 1.1
at AC-3e maximum at AC-4 maximum Control circuit/ Control type of voltage of the control supply voltage control supply voltage at AC at 50 Hz rated value at 60 Hz rated value control supply voltage at DC rated value operating range factor control supply voltage rated value of magnet coil at DC initial value full-scale value operating range factor control supply voltage rated value of magnet coil at AC at 50 Hz at 60 Hz design of the surge suppressor apparent pick-up power of magnet coil at AC	750 1/h 250 1/h AC/DC 23 26 V 23 26 V 0.8 1.1 0.8 1.1 0.8 1.1 with varistor
at AC-3e maximum at AC-4 maximum Control circuit/ Control type of voltage of the control supply voltage control supply voltage at AC at 50 Hz rated value at 60 Hz rated value control supply voltage at DC rated value operating range factor control supply voltage rated value of magnet coil at DC initial value full-scale value operating range factor control supply voltage rated value of magnet coil at AC at 50 Hz at 60 Hz design of the surge suppressor apparent pick-up power of magnet coil at AC at 50 Hz	750 1/h 250 1/h AC/DC 23 26 V 23 26 V 0.8 1.1 0.8 1.1 0.8 1.1 with varistor
at AC-3e maximum at AC-4 maximum Control circuit/ Control type of voltage of the control supply voltage control supply voltage at AC at 50 Hz rated value at 60 Hz rated value control supply voltage at DC rated value operating range factor control supply voltage rated value of magnet coil at DC initial value full-scale value operating range factor control supply voltage rated value of magnet coil at AC at 50 Hz at 60 Hz design of the surge suppressor apparent pick-up power of magnet coil at AC at 50 Hz at 60 Hz	750 1/h 250 1/h AC/DC 23 26 V 23 26 V 0.8 1.1 0.8 1.1 0.8 1.1 with varistor
at AC-3e maximum at AC-4 maximum Control circuit/ Control type of voltage of the control supply voltage control supply voltage at AC at 50 Hz rated value at 60 Hz rated value control supply voltage at DC rated value operating range factor control supply voltage rated value of magnet coil at DC initial value full-scale value operating range factor control supply voltage rated value of magnet coil at AC at 50 Hz at 60 Hz at 60 Hz at 60 Hz at 60 Hz inductive power factor with closing power of the coil	750 1/h 250 1/h AC/DC 23 26 V 23 26 V 0.8 1.1 0.8 1.1 0.8 1.1 with varistor 830 VA 830 VA
at AC-3e maximum at AC-4 maximum Control circuit/ Control type of voltage of the control supply voltage control supply voltage at AC at 50 Hz rated value at 60 Hz rated value control supply voltage at DC rated value operating range factor control supply voltage rated value of magnet coil at DC initial value full-scale value operating range factor control supply voltage rated value of magnet coil at AC at 50 Hz at 60 Hz at 50 Hz at 60 Hz inductive power factor with closing power of the coil at 50 Hz at 60 Hz inductive power factor with closing power of the coil at 50 Hz at 60 Hz	750 1/h 250 1/h AC/DC 23 26 V 23 26 V 0.8 1.1 0.8 1.1 0.8 1.1 with varistor 830 VA 830 VA
at AC-3e maximum at AC-4 maximum Control circuit/ Control type of voltage of the control supply voltage control supply voltage at AC at 50 Hz rated value at 60 Hz rated value control supply voltage at DC rated value operating range factor control supply voltage rated value of magnet coil at DC initial value full-scale value operating range factor control supply voltage rated value of magnet coil at AC at 50 Hz at 60 Hz design of the surge suppressor apparent pick-up power of magnet coil at AC at 50 Hz at 60 Hz inductive power factor with closing power of the coil at 50 Hz	750 1/h 250 1/h AC/DC 23 26 V 23 26 V 0.8 1.1 0.8 1.1 0.8 1.1 with varistor 830 VA 830 VA
at AC-3e maximum at AC-4 maximum Control circuit/ Control type of voltage of the control supply voltage control supply voltage at AC at 50 Hz rated value at 60 Hz rated value control supply voltage at DC rated value operating range factor control supply voltage rated value of magnet coil at DC initial value full-scale value operating range factor control supply voltage rated value of magnet coil at AC at 50 Hz at 60 Hz design of the surge suppressor apparent pick-up power of magnet coil at AC at 50 Hz at 60 Hz inductive power factor with closing power of the coil at 50 Hz at 60 Hz at 60 Hz	750 1/h 250 1/h AC/DC 23 26 V 23 26 V 0.8 1.1 0.8 1.1 0.8 1.1 with varistor 830 VA 830 VA 0.9 0.9

Inductive power factor with the holding power of the coil 20		
	inductive power factor with the holding power of the	
a di 60 kz closing power of magnet coil at DC closing power of magnet coil at DC closing delay		n
Closing power of magnet coil at DC		
Inciding power of magnet coil at DC		
Closing delay		
		10 44
• at DC opening delay • at AC • at DC acting time control version of the switch operating mechanism Auxiliarry circuit number of NC contacts for auxiliary contacts instantaneous contact number of NC contacts for auxiliary contacts instantaneous contact number of NC contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum oporational current at AC-18 maximum oporational current at DC-12 • at 260 V rated value • at 690 V rated value • at 690 V rated value • at 100 V rated value • at 110 V rated value • at 28 V rated value • at 60 V rated value • at 60 V rated value • at 60 V rated value • at 110 V rated value • at 120 V rated value • at 180 V rated value • at 220 V rated value • at 180 V rated value • at 220 V rated value • at 280 V rated value • at 290 V rated value • at 200 V rated value • at 20		45 100 ms
Opening delay		
** at DC		40 100 III6
■ et DC arcing time control version of the switch operating mechanism Auxiliary circuit Instantaneous contact Instantaneous Ins		60 100 ms
10_, 15 ms Standard A1 - A2		
Control version of the switch operating mechanism Auxiliary circuit Inmiber of NC contacts for auxiliary contacts Instantaneous contact Instantaneous co		
Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact number of NC contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 at 230 V rated value at 400 V rated value at 60 V rated value at 60 V rated value at 60 V rated value be at 60 V rated value at		
number of NC contacts for auxiliary contacts instantaneous contact number of NC contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 600 V rated value • at 48 V rated value • at 48 V rated value • at 48 V rated value • at 100 V rated value • at 100 V rated value • at 48 V rated value • at 100 V rated value • at 100 V rated value • at 100 V rated value • at 125 V rated value • at 100 V rated value • at 200 V rated value • at 800		Canda AT 72
instantaneous contact instantaneous contact instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 4500 V rated value • at 500 V rated value • at 600 V rated value • at 60 V rated value • at 110 V rated value • at 120 V rated value • at 110 V rated value operational current at DC-13 • at 24 V rated value • at 100 V rated value • at 110 V rated value • at 200 V rated value • at 600 V rated value		2
Dumber of NO contacts for auxillary contacts instantaneous contact operational current at AC-15		2
Operational current at AC-12 maximum 10 A	number of NO contacts for auxiliary contacts	2
Operational current at AC-15 at 230 V rated value		10 A
• at 230 V rated value • at 400 V rated value • at 400 V rated value • at 690 V rated value • at 48 V rated value • at 48 V rated value • at 48 V rated value • at 10 V rated value • at 10 V rated value • at 125 V rated value • at 125 V rated value • at 220 V rated value • at 220 V rated value • at 60 V rated value • at 10 V rated value • at 220 V rated value • at 220 V rated value • at 60 V	· ·	
at 400 V rated value at 600 V rated value at 40 V rated value at 60 V rated value at 10 V rated value at 22 V rated value at 22 V rated value at 20 V rated value at 24 V rated value at 48 V rated value at 48 V rated value at 10 V rated value at 22 V rated value at 22 V rated value at 22 V rated value at 20 V rated value at 20 V rated value at 80 V rated value at 20 V rated value at 600 V rated value 361 A at 600 V rated value 362 A yielded mechanical performance (hp) • for 3-phase AC motor - at 200/200 V rated value - at 200/200 V rated value - at 200/200 V rated value - at 400/400 V rated value - at 575/600 V rated value - at 575/600 V rated value - at 575/600 V rated value - with type of coordination 1 required - with type of assignment 2 required - with type	•	6 A
• at 500 V rated value • at 690 V rated value • at 690 V rated value • at 24 V rated value • at 48 V rated value • at 48 V rated value • at 48 V rated value • at 110 V rated value • at 110 V rated value • at 22 V rated value • at 25 V rated value • at 600 V rated value • at 125 V rated value • at 126 V rated value • at 126 V rated value • at 126 V rated value • at 120 V rated value • at 120 V rated value • at 120 V rated value • at 600 V rated value • at		
• at 690 V rated value		
Operational current at DC-12		
• at 24 V rated value • at 48 V rated value • at 60 V rated value • at 61 V rated value • at 110 V rated value • at 110 V rated value • at 125 V rated value • at 220 V rated value • at 600 V rated value • at 60 V rated value • at 110 V rated value • at 110 V rated value • at 125 V rated value • at 120 V rated value • at 220 V rated value • at 220 V rated value • at 220 V rated value • at 600 V rated value • at 480 V rated value • at 600 V rated value • at		
• at 60 V rated value	•	10 A
• at 110 V rated value 2 A • at 125 V rated value 1 A • at 220 V rated value 0.15 A operational current at DC-13 • at 24 V rated value 2 A • at 80 V rated value 2 A • at 80 V rated value 2 A • at 110 V rated value 2 A • at 110 V rated value 2 A • at 110 V rated value 3 A • at 25 V rated value 4 A • at 125 V rated value 5 A • at 25 V rated value 9 A • at 120 V rated value 9 A • at 300 V rated value 9 A • at 480 V rated value 382 A yielded mechanical performance [hp] • for 3-phase AC motor 9 At 200/208 V rated value 125 hp • at 220/230 V rated value 150 hp • at 460/480 V rated value 150 hp • at 460/480 V rated value 300 hp • at 4575/600 V rated value 300 hp • at 575/600 V rated value 300 hp • or short-circuit protection design of the fuse link • for short-circuit protection of the main circuit • with type of assignment 2 required 9 G: 800 A (690 V, 50 kA), BS88: 800 A (415 V, 50 kA) • for short-circuit protection of the auxiliary switch 9 G: 10 A (500 V, 1 kA)	at 48 V rated value	6 A
	at 60 V rated value	6 A
• 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 10 V rated value • at 110 V rated value • at 125 V rated value • at 220 V rated value • at 220 V rated value • at 220 V rated value • at 200 V rated value • at 600 V rated value • at 600 V rated value • at 600 V rated value • at 480 V rated value • at 600 V rated value • at 200/208 V rated value — at 200/208 V rated value — at 460/480 V rated value — at 575/600 V rated value — at 575/600 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 assignment 2 required — with type of assignment 2 required • for short-circuit protection of the auxiliary switch	at 125 V rated value	2 A
operational current at DC-13 • at 24 V rated value • at 48 V rated value • at 46 V rated value • at 110 V rated value • at 125 V rated value • at 220 V rated value • at 220 V rated value • at 220 V rated value • at 600 V rated value Contact reliability of auxiliary contacts Tul/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value • at 600 V rated value 7 or 3-phase AC motor • at 220/230 V rated value • at 220/230 V rated value • at 60/480 V rated value • at 460/480 V rated value • at 457/600 V rated value • at 575/600 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	• at 220 V rated value	1 A
at 24 V rated value at 48 V rated value 2 A at 60 V rated value 2 A at 110 V rated value 3 A at 125 V rated value 3 A at 220 V rated value 4 A at 220 V rated value 5 A at 600 V rated value 5 A 5 A 5 A 5 A 5 A 5 A 5 A 5 A 5 A 5 A	• at 600 V rated value	0.15 A
at 48 V rated value at 60 V rated value at 110 V rated value at 125 V rated value at 22 V rated value at 22 V rated value at 220 V rated value at 220 V rated value at 20 V rated value at 600 V rated value at 600 V rated value contact reliability of auxiliary contacts I faulty switching per 100 million (17 V, 1 mA) UL/CSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value at 600 V rated value at 200/208 V rated value at 220/230 V rated value at 460/480 V rated value at 4575/600 V rated value at 575/600 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 with type of assignment 2 required of or short-circuit protection of the auxiliary switch of or short-circuit protection of the auxiliary switch of or short-circuit protection of the auxiliary switch of of short-circuit protection of the auxiliary switch	operational current at DC-13	
 at 60 V rated value at 110 V rated value at 125 V rated value at 220 V rated value at 220 V rated value at 600 V rated value be at 600 V rated value contact reliability of auxiliary contacts at 480 V rated value at 600 V rated value at 220/230 V rated value at 220/230 V rated value at 60/480 V rated value at 60/480 V rated value at 75/600 V rated value at 75/600 V rated value at 75/600 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 y 50 kA) for short-circuit protection of the auxiliary switch gG: 800 A (690 V, 100 kA) gG: 800 N, 100 KA) 	at 24 V rated value	10 A
 at 110 V rated value at 125 V rated value at 220 V rated value at 600 V rated value at 480 V rated value at 480 V rated value at 600 V rated value for 3-phase AC motor at 480 V rated value at 600 V rated value at 600 V rated value at 600 V rated value at 220/230 V rated value at 220/230 V rated value at 220/230 V rated value at 25 hp at 220/230 V rated value at 25 hp at 260/480 V rated value at 575/600 V rated value at 575/600 V rated value who hp 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 GG: 800 A (690 V, 100 kA) gG: 800 A (690 V, 50 kA), aM: 630 A (690 V, 50 kA), BS88: 800 A (415 V, 50 kA) of or short-circuit protection of the auxiliary switch gG: 10 A (500 V, 1 kA) 	• at 48 V rated value	2 A
 at 125 V rated value at 220 V rated value 0.3 A at 600 V rated value 0.1 A contact reliability of auxiliary contacts 1 faulty switching per 100 million (17 V, 1 mA) UL/CSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value at 600 V rated value at 600 V rated value for 3-phase AC motor at 220/2230 V rated value -at 220/2230 V rated value -at 460/480 V rated value -at 575/600 V rated value 400 hp 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 assignment 2 required GG: 800 A (690 V, 50 kA), aM: 630 A (690 V, 50 kA), BS88: 800 A (415 V, 50 kA) for short-circuit protection of the auxiliary switch gG: 10 A (500 V, 1 kA) 	• at 60 V rated value	2 A
at 220 V rated value at 600 V rated value contact reliability of auxiliary contacts 1 faulty switching per 100 million (17 V, 1 mA) UL/CSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value at 600 V rated value at 600 V rated value at 600 V rated value for 3-phase AC motor at 220/230 V rated value at 220/230 V rated value at 460/480 V rated value at 575/600 V rate	• at 110 V rated value	1 A
at 600 V rated value contact reliability of auxiliary contacts 1 faulty switching per 100 million (17 V, 1 mA) UL/CSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value at 600 V rated value for 3-phase AC motor at 200/208 V rated value at 220/230 V rated value at 460/480 V rated value at 460/480 V rated value at 500 hp 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 assignment 2 required with type of assignment 2 required for short-circuit protection of the auxiliary switch	• at 125 V rated value	0.9 A
contact reliability of auxiliary contacts I faulty switching per 100 million (17 V, 1 mA) UL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value 9 for 3-phase AC motor - at 200/208 V rated value 125 hp - at 220/230 V rated value 150 hp - at 460/480 V rated value - at 475/600 V rated value 200 rated value 100 hp 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	• at 220 V rated value	0.3 A
full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value • for 3-phase AC motor — at 200/208 V rated value — at 220/230 V rated value — at 460/480 V rated value — at 460/480 V rated value — at 575/600 V rated value — at 575/600 V rated value — of or short-circuit protection design of the fuse link • for short-circuit protection of the main circuit — with type of assignment 2 required • for short-circuit protection of the auxiliary switch • for short-circuit protection of the auxiliary switch • for short-circuit protection of the auxiliary switch • for short-circuit protection of the auxiliary switch • for short-circuit protection of the auxiliary switch • for short-circuit protection of the auxiliary switch • for short-circuit protection of the auxiliary switch • for short-circuit protection of the auxiliary switch • for short-circuit protection of the auxiliary switch	at 600 V rated value	0.1 A
full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value • for 3-phase AC motor — at 200/208 V rated value — at 220/230 V rated value — at 460/480 V rated value — at 460/480 V rated value — at 575/600 V rated value — at 575/600 V rated value — of or short-circuit protection design of the fuse link • for short-circuit protection of the main circuit — with type of assignment 2 required • for short-circuit protection of the auxiliary switch • for short-circuit protection of the auxiliary switch • for short-circuit protection of the auxiliary switch • for short-circuit protection of the auxiliary switch • for short-circuit protection of the auxiliary switch • for short-circuit protection of the auxiliary switch • for short-circuit protection of the auxiliary switch • for short-circuit protection of the auxiliary switch • for short-circuit protection of the auxiliary switch	contact reliability of auxiliary contacts	1 faulty switching per 100 million (17 V, 1 mA)
full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value • at 200/208 V rated value — at 220/230 V rated value — at 460/480 V rated value — at 575/600 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		
 at 480 V rated value at 600 V rated value 382 A yielded mechanical performance [hp] for 3-phase AC motor — at 200/208 V rated value — at 220/230 V rated value — at 460/480 V rated value — at 575/600 V rated value — at 575/600 V rated value Woo hp 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 gG: 800 A (690 V, 100 kA) gG: 800 A (690 V, 50 kA), aM: 630 A (690 V, 50 kA), BS88: 800 A (415 V, 50 kA) for short-circuit protection of the auxiliary switch gG: 10 A (500 V, 1 kA) 		
at 600 V rated value yielded mechanical performance [hp] • for 3-phase AC motor — at 200/208 V rated value — at 220/230 V rated value — at 460/480 V rated value — at 575/600 V rated value — at 575/600 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		361 A
yielded mechanical performance [hp] • for 3-phase AC motor — at 200/208 V rated value — at 220/230 V rated value 150 hp — at 460/480 V rated value 300 hp — at 575/600 V rated value 400 hp 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		
 for 3-phase AC motor — at 200/208 V rated value — at 220/230 V rated value — at 460/480 V rated value — at 575/600 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 for short-circuit protection of the auxiliary switch gG: 800 A (690 V, 100 kA) gG: 800 A (690 V, 50 kA), aM: 630 A (690 V, 50 kA), BS88: 800 A (415 V, 50 kA) gG: 10 A (500 V, 1 kA) 		
- at 200/208 V rated value - at 220/230 V rated value - at 460/480 V rated value - at 575/600 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 • for short-circuit protection of the auxiliary switch 125 hp 150 hp 400 hp A600 / Q600 Short-circuit protection Ges 800 A (690 V, 100 kA) Ges 800 A (690 V, 100 kA), aM: 630 A (690 V, 50 kA), BS88: 800 A (415 V, 50 kA) • for short-circuit protection of the auxiliary switch Ges 10 A (500 V, 1 kA)		
- at 220/230 V rated value - at 460/480 V rated value 300 hp - at 575/600 V rated value 400 hp 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 • for short-circuit protection of the auxiliary switch gG: 800 A (690 V, 100 kA) gG: 800 A (690 V, 50 kA), aM: 630 A (690 V, 50 kA), BS88: 800 A (415 V, 50 kA) • for short-circuit protection of the auxiliary switch gG: 10 A (500 V, 1 kA)	•	125 hp
- at 460/480 V rated value - at 575/600 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 • for short-circuit protection of the auxiliary switch 300 hp 400 hp A600 / Q600 Short-circuit protection of the main circuit - gG: 800 A (690 V, 100 kA) gG: 800 A (690 V, 50 kA), aM: 630 A (690 V, 50 kA), BS88: 800 A (415 V, 50 kA) • for short-circuit protection of the auxiliary switch gG: 10 A (500 V, 1 kA)		
- at 575/600 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 gG: 800 A (690 V, 100 kA) gG: 800 A (690 V, 50 kA), aM: 630 A (690 V, 50 kA), BS88: 800 A (415 V, 50 kA) gG: 10 A (500 V, 1 kA)		·
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 G: 800 A (690 V, 100 kA) g: 800 A (690 V, 100 kA), aM: 630 A (690 V, 50 kA), BS88: 800 A (415 V, 50 kA) • for short-circuit protection of the auxiliary switch G: 10 A (500 V, 1 kA)		·
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 gG: 800 A (690 V, 100 kA) gG: 800 A (690 V, 50 kA), aM: 630 A (690 V, 50 kA), BS88: 800 A (415 V, 50 kA) • for short-circuit protection of the auxiliary switch gG: 10 A (500 V, 1 kA)		
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 gG: 800 A (690 V, 100 kA) gG: 800 A (690 V, 50 kA), aM: 630 A (690 V, 50 kA), BS88: 800 A (415 V, 50 kA) for short-circuit protection of the auxiliary switch gG: 800 A (690 V, 50 kA), aM: 630 A (690 V, 50 kA), BS88: 800 A (415 V, 50 kA) 		
 — with type of coordination 1 required — with type of assignment 2 required • for short-circuit protection of the auxiliary switch gG: 800 A (690 V, 100 kA) gG: 800 A (690 V, 50 kA), aM: 630 A (690 V, 50 kA), BS88: 800 A (415 V, 50 kA) • for short-circuit protection of the auxiliary switch gG: 800 A (690 V, 100 kA) gG: 10 A (500 V, 1 kA) 	_	
 — with type of assignment 2 required gG: 800 A (690 V, 50 kA), aM: 630 A (690 V, 50 kA), BS88: 800 A (415 V, 50 kA) ● for short-circuit protection of the auxiliary switch gG: 800 A (690 V, 50 kA), aM: 630 A (690 V, 50 kA), BS88: 800 A (415 V, 50 kA) 		gG: 800 A (690 V. 100 kA)
• for short-circuit protection of the auxiliary switch gG: 10 A (500 V, 1 kA)		gG: 800 A (690 V, 50 kA), aM: 630 A (690 V, 50 kA), BS88: 800 A (415
		·

nstallation/ mounting/ dimensions	
mounting position	+/-22,5° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface; standing, on horizontal mounting surface
fastening method	screw fixing
side-by-side mounting	Yes
height	214 mm
width	160 mm
depth	225 mm
required spacing	
with side-by-side mounting	
— forwards	20 mm
— upwards	10 mm
— dpwards — downwards	10 mm
— at the side	0 mm
	V IIIII
for grounded parts forwards	20 mm
— forwards	20 mm
— upwards	10 mm
— at the side	10 mm
— downwards	10 mm
for live parts	
— forwards	20 mm
— upwards	10 mm
— downwards	10 mm
— at the side	10 mm
Connections/ Terminals	
type of electrical connection	
for main current circuit	Connection bar
for auxiliary and control circuit	screw-type terminals
at contactor for auxiliary contacts	Screw-type terminals
of magnet coil	Screw-type terminals Screw-type terminals
width of connection bar	25 mm
thickness of connection bar	6 mm
diameter of holes	11 mm
number of holes	1
type of connectable conductor cross-sections	2/0 F00 kemil
at AWG cables for main contacts	2/0 500 kcmil
connectable conductor cross-section for main contacts	70 040 3
• stranded	70 240 mm²
connectable conductor cross-section for auxiliary	
contacts	0.5 4 mm ²
solid or stranded finally stranded with sore and processing.	0.5 4 mm ²
finely stranded with core end processing	0.5 2.5 mm²
type of connectable conductor cross-sections	
for auxiliary contacts	0 (0 5 4 5 2) 0 (0 75 0 5 2)
— solid	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), max. 2x (0.75 4 mm²)
— solid or stranded	2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²), max. 2x (0,75 4 mm²)
 finely stranded with core end processing 	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
at AWG cables for auxiliary contacts	2x (20 16), 2x (18 14), 1x 12
AWG number as coded connectable conductor cross section	
for auxiliary contacts	18 14
Safety related data	
product function	
 mirror contact according to IEC 60947-4-1 	Yes
 positively driven operation according to IEC 60947- 5-1 	No
protection class IP on the front according to IEC 60529	IP00; IP20 with box terminal/cover
touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front with box terminal/cover

suitability for use

safety-related switching OFF

Yes

Certificates/ approvals

General Product Approval

EMC



Confirmation









Functional Safety/Safety of Machinery

Declaration of Conformity

Test Certificates

Marine / Shipping

Type Examination Certificate





Special Test Certific-<u>ate</u>

Type Test Certificates/Test Report



Marine / Shipping

other







Confirmation

Confirmation

Miscellaneous

Railway

Special Test Certificate

Further information

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=3RT1275-6AB36

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT1275-6AB36

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT1275-6AB36

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT1275-6AB36&lang=en

Characteristic: Tripping characteristics, I2t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RT1275-6AB36/char

Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT1275-6AB36&objecttype=14&gridview=view1

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