SIEMENS

Data sheet 3RB2066-1GC2



Overload relay 55...250 A for motor protection Size S10/S12, Class 10E Contactor mounting/stand-alone installation Main circuit: busbar connection Auxiliary circuit: Screw terminal Manual-Automatic-Reset

product designation product type designation Size of overload relay size of overload relay size of contactor can be combined company-specific insulation voltage with degree of pollution 3 at AC rated value surge voltage resistance rated value maximum permissible voltage for safe isolation in networks with grounded star point between auxiliary and auxiliary circuit between auxiliary and auxiliary circuit between main and auxiliary circuit between auxiliary and auxiliary circuit between auxiliary and auxiliary circuit between main and auxiliary circuit between auxiliary and auxiliary circuit between auxiliary and auxiliary circuit between main and auxiliary circuit between m	product brand name	SIRIUS
Seneral technical data Size of overload relay S10, S12	product designation	solid-state overload relay
size of overload relay size of contactor can be combined company-specific insulation voltage with degree of pollution 3 at AC rated value surge voltage resistance rated value maximum permissible voltage for safe isolation in networks with grounded star point • between auxiliary and auxiliary circuit • between auxiliary and auxiliary circuit • between auxiliary and auxiliary circuit • between main and auxiliary circuit • between main and suxiliary circuit • between main in and suxiliary circuit • between main in and suxiliary circuit • between main and suxiliary circuit • 15g / 11 ms • 15g / 11 ms • 25g / 11 ms •	product type designation	3RB2
size of contactor can be combined company-specific insulation voltage with degree of pollution 3 at AC rated value surge voltage resistance rated value maximum permissible voltage for safe isolation in networks with grounded star point • between auxiliary and auxiliary circuit • between main and auxiliary circuit • between auxiliary circuit • between main and auxiliary circuit • between main and auxiliary circuit • between main and auxiliary circuit • 250 A **Ex II (2) G [Ex e] [Ex d] [Ex px] ; Ex II (2) D [Ex t] [Ex p] **PTB 06 ATEX 3001 **Deat II (2) D [Ex t] [Ex px] **C + 40 +80 °C **C + 40 +80 °C **Deat II (2) D [Ex t] [Ex px] **	General technical data	
insulation voltage with degree of pollution 3 at AC rated value surge voltage resistance rated value maximum permissible voltage for safe isolation in networks with grounded star point • between auxiliary and auxiliary circuit • between maximum permissible voltage for safe isolation in networks with grounded star point • between auxiliary and auxiliary circuit • between main and auxiliary circuit • according to IEC 60068-2-27 • 15g / 11 ms • 15g / 1 ms • 250 A **Ex II (2) G [Ex e] [Ex e] [Ex e] [Ex e] F Substance Prohibitance (Date) • 701/2006 **Ambient conditions • 101/2006 **Ambient conditions • 101/2006 **Ambient conditions • 101/2006 **Ambient condit	size of overload relay	S10, S12
surge voltage resistance rated value maximum permissible voltage for safe isolation in networks with grounded star point • between auxiliary and auxiliary circuit • between main and auxiliary circuit • shock resistance • according to IEC 60068-2-27 • 15g / 11 ms; Signaling contact 97 / 98 in position "Tripped": 8g / 11 ms vibration resistance • 1-6 Hz, 15 mm; 6-500 Hz, 20 m/s²; 10 cycles thermal current type of protection according to ATEX directive 2014/34/EU certificate of suitability according to ATEX directive 2014/34/EU reference code according to IEC 81346-2 Fubbatace Prohibitance (Date) Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation • during storage • during transport • during storage • during transport temperature compensation relative humidity during operation Main circuit number of poles for main current circuit adjustable current response value current of the current-dependent overload release operating voltage • rated value 8 kV 300 V 8 kV 300 V 600 V 600 V 600 V 690 V	size of contactor can be combined company-specific	S10, S12
maximum permissible voltage for safe isolation in networks with grounded star point • between auxiliary and auxiliary circuit • between main and auxiliary circuit • feact of the star of	0 0 1	1 000 V
networks with grounded star point • between auxiliary and auxiliary circuit • between auxiliary and auxiliary circuit • between main and auxiliary circuit • 690 V shock resistance • according to IEC 60068-2-27 tibg / 11 ms vibration resistance 1-6 Hz, 15 mm; 6-500 Hz, 20 m/s²; 10 cycles thermal current 250 A type of protection according to ATEX directive 2014/34/EU certificate of suitability according to ATEX directive 2014/34/EU 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 • during transport temperature compensation -25 +60 °C eduring transport -40 +80 °C relative humidity during operation wincled the properation -25 +60 °C relative humidity during operation adjustable current response value current of the current-dependent overload release operating voltage • rated value 1 000 V	surge voltage resistance rated value	8 kV
between auxiliary and auxiliary circuit between main and auxiliary circuit between main and auxiliary circuit between main and auxiliary circuit shock resistance according to IEC 60068-2-27 15g / 11 ms vibration resistance 1-6 Hz, 15 mm; 6-500 Hz, 20 m/s²; 10 cycles thermal current 250 A type of protection according to ATEX directive 2014/34/EU reference code according to ATEX directive 2014/34/EU reference code according to IEC 81346-2 Substance Prohibitance (Date) or/01/2006 Ambient conditions installation altitude at height above sea level maximum ambient temperature o during operation oduring storage oduring transport temperature compensation relative humidity during operation 10 95 % Main circuit number of poles for main current circuit adjustable current response value current of the current-dependent overload release operating voltage oracle and auxiliary circuit 100 V		
between main and auxiliary circuit between main and auxiliary circuit shock resistance according to IEC 60068-2-27 15g / 11 ms; Signaling contact 97 / 98 in position "Tripped": 8g / 11 ms vibration resistance 1-6 Hz, 15 mm; 6-500 Hz, 20 m/s²; 10 cycles thermal current 250 A type of protection according to ATEX directive 2014/34/EU certificate of suitability according to ATEX directive 2014/34/EU 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 during transport temperature compensation relative humidity during operation 10 95 % Main circuit number of poles for main current circuit adjustable current response value current of the current-dependent overload release operating voltage e rated value 1000 V	 between auxiliary and auxiliary circuit 	300 V
between main and auxiliary circuit shock resistance	 between auxiliary and auxiliary circuit 	300 V
shock resistance according to IEC 60068-2-27 15g / 11 ms; Signalling contact 97 / 98 in position "Tripped": 8g / 11 ms vibration resistance 1-6 Hz, 15 mm; 6-500 Hz, 20 m/s²; 10 cycles thermal current 250 A type of protection according to ATEX directive 2014/34/EU certificate of suitability according to ATEX directive 2014/34/EU 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 during transport temperature compensation relative humidity during operation 25 +60 °C temperature compensation 25 +60 °C relative humidity during operation 10 95 % Main circuit number of poles for main current circuit adjustable current response value current of the current-dependent overload release operating voltage rated value 1 000 V	 between main and auxiliary circuit 	600 V
according to IEC 60068-2-27 vibration resistance thermal current 250 A type of protection according to ATEX directive 2014/34/EU certificate of suitability according to ATEX directive 2014/34/EU 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 during transport e during transport temperature compensation relative humidity during operation adjustable current response value current of the current-dependent overload release operating voltage e rated value 15g / 11 ms; Signaling contact 97 / 98 in position "Tripped"; 8g / 11 ms 16g / 11 ms; Signaling contact 97 / 98 in position "Tripped"; 8g / 11 ms 16 Hz, 15 mm; 6-500 Hz, 20 m/s²; 10 cycles Ex II (2) G [Ex e] [Ex d] [Ex px]; Ex II (2) D [Ex t] [Ex p] 270 [Ex t] [Ex px]; Ex II (2) D [Ex t] [Ex px] 28	between main and auxiliary circuit	690 V
vibration resistance thermal current 250 A type of protection according to ATEX directive 2014/34/EU certificate of suitability according to ATEX directive 2014/34/EU 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 • during storage • during transport temperature compensation relative humidity during operation adjustable current response value current of the current-dependent overload release operating voltage • rated value 1 6 Hz, 15 mm; 6-500 Hz, 20 m/s²; 10 cycles 250 A Ex II (2) G [Ex e] [Ex d] [Ex pz] ; Ex II (2) D [Ex t] [Ex p] 250 A Ex II (2) G [Ex e] [Ex d] [Ex pz] ; Ex II (2) D [Ex t] [Ex pz] 250 A Ex II (2) G [Ex e] [Ex d] [Ex pz] ; Ex II (2) D [Ex t] [Ex pz] 250 A Ex II (2) G [Ex e] [Ex d] [Ex pz] ; Ex II (2) D [Ex t] [Ex pz] 250 A Ex II (2) G [Ex e] [Ex d] [Ex pz] ; Ex II (2) D [Ex t] [Ex pz] 250 A Ex II (2) G [Ex e] [Ex d] [Ex pz] ; Ex II (2) D [Ex t] [Ex pz] 250 A Ex II (2) G [Ex e] [Ex d] [Ex pz] ; Ex II (2) D [Ex t] [Ex pz] 250 A Ex II (2) G [Ex e] [Ex d] [Ex pz] ; Ex II (2) D [Ex t] [Ex pz] 250 A Ex II (2) G [Ex e] [Ex d] [Ex pz] ; Ex II (2) D [Ex t] [Ex pz] 250 A Ex II (2) G [Ex e] [Ex d] [Ex pz] ; Ex II (2) D [Ex t] [Ex pz] 260 A Ex II (2) G [Ex e] [Ex d] [Ex pz] ; Ex II (2) D [Ex t] [Ex pz] 260 A Ex II (2) G [Ex e] [Ex d] [Ex pz] ; Ex II (2) D [Ex t] [Ex pz] 270 D [Ex t] [Ex pz] ; Ex II (2) D [Ex t] [Ex pz] 280 D [Ex e] [Ex pz] [Ex pz] ; Ex II (2) D [Ex t] [Ex pz] ; Ex II (2) D [Ex t] [Ex pz] ; Ex II (2) D [Ex t] [Ex pz] ; Ex II (2) D [Ex t] [Ex pz] ; Ex II (2) D [Ex t] [Ex pz] ; Ex II (2) D [Ex t] [Ex pz] ; Ex II (2) D [Ex t] [Ex pz] ; Ex II (2) D [Ex t] [Ex pz] ; Ex II (2) D [Ex t] [Ex pz] ; Ex II (2) D [Ex t] [Ex pz] ; Ex II (2) D [Ex t] [Ex pz] ; Ex II (2) D [Ex t] [Ex pz] ; Ex II (2) D [Ex t] [Ex pz] ; Ex II (2) D [Ex t] [Ex pz] ; Ex II (2) D [Ex t] [Ex pz] ; Ex II (2) D [Ex t] [Ex pz] ; Ex II (2) D [E	shock resistance	15g / 11 ms
thermal current type of protection according to ATEX directive 2014/34/EU certificate of suitability according to ATEX directive 2014/34/EU 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 • during storage • during transport temperature compensation relative humidity during operation number of poles for main current circuit adjustable current response value current of the current-dependent overload release operating voltage • rated value 250 A Ex II (2) G [Ex e] [Ex d] [Ex px] ; Ex II (2) D [Ex t] [Ex p] Ex II (2) G [Ex e] [Ex d] [Ex px] ; Ex II (2) D [Ex t] [Ex p] Ex II (2) G [Ex e] [Ex d] [Ex px] ; Ex II (2) D [Ex t] [Ex p] Ex II (2) G [Ex e] [Ex d] [Ex px] ; Ex II (2) D [Ex t] [Ex p] Ex II (2) G [Ex e] [Ex d] [Ex px] ; Ex II (2) D [Ex t] [Ex p] Ex II (2) G [Ex e] [Ex d] [Ex px] ; Ex II (2) D [Ex t] [Ex p] Ex II (2) G [Ex e] [Ex d] [Ex px] ; Ex II (2) D [Ex t] [Ex p] Ex II (2) G [Ex e] [Ex d] [Ex px] ; Ex II (2) D [Ex t] [Ex p] Ex II (2) G [Ex e] [Ex d] [Ex px] ; Ex II (2) D [Ex t] [Ex p] Ex II (2) G [Ex e] [Ex d] [Ex px] ; Ex II (2) D [Ex t] [Ex p] Ex II (2) G [Ex e] [Ex d] [Ex px] ; Ex II (2) D [Ex t] [Ex p] Ex II (2) G [Ex e] [Ex d] [Ex px] ; Ex II (2) D [Ex t] [Ex p] Ex II (2) G [Ex e] [Ex d] [Ex px] ; Ex II (2) D [Ex t] [Ex p] Ex II (2) G [Ex e] [Ex d] [Ex px] ; Ex II (2) D [Ex t] [Ex px] ;	according to IEC 60068-2-27	15g / 11 ms; Signaling contact 97 / 98 in position "Tripped": 8g / 11 ms
type of protection according to ATEX directive 2014/34/EU certificate of suitability according to ATEX directive 2014/34/EU reference code according to IEC 81346-2 Fubstance Prohibitance (Date) Ambient conditions installation altitude at height above sea level maximum 2 000 m ambient temperature • during operation -25 +60 °C • during transport -40 +80 °C temperature compensation -25 +60 °C relative humidity during operation 10 95 % Main circuit number of poles for main current circuit 3 adjustable current response value current of the current-dependent overload release • rated value 10 00 V	vibration resistance	1-6 Hz, 15 mm; 6-500 Hz, 20 m/s ² ; 10 cycles
2014/34/EU certificate of suitability according to ATEX directive 2014/34/EU 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 • during transport temperature compensation relative humidity during operation mumber of poles for main current circuit adjustable current response value current of the current-dependent overload release operating voltage • rated value PTB 06 ATEX 3001 FB 07/01/2006 PTB 06 ATEX 3001 FB 06 ATEX 3001 FB 07/01/2006 PTB 06 ATEX 3001 FB 06 ATEX 3001 FB 07/01/2006 FB 07/01/2006 PTB 06 ATEX 3001 FB 07/01/2006 FB 07/01/2006 Ambient conditions 1 000 W	thermal current	250 A
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 during transport temperature compensation relative humidity during operation adjustable current response value current of the current-dependent overload release operating voltage rated value reference code according to IEC 81346-2 F Substance Prohibitance (Date) 07/01/2006 F 2 000 m 3 000 C 4 0 +80 °C 5 250 A 4 0 +80 °C 5 250 A		Ex II (2) G [Ex e] [Ex d] [Ex px] ; Ex II (2) D [Ex t] [Ex p]
Substance Prohibitance (Date) Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation • during storage • during transport temperature compensation relative humidity during operation Main circuit number of poles for main current circuit adjustable current response value current of the current-dependent overload release operating voltage • rated value 07/01/2006 07/01/2006 07/01/2006 07/01/2006 07/01/2006 07/01/2006 07/01/2006 00 m 20 00 m 20 +80 °C -40 +80 °C -40 +80 °C -40 +80 °C -40 +80 °C -55 +60 °C relative humidity during operation 10 95 % 10 00 V	, ,	PTB 06 ATEX 3001
installation altitude at height above sea level maximum ambient temperature during operation during storage during transport temperature compensation clear temperature compensation clear temperature compensation clear temperature compensation clear temperature temper	reference code according to IEC 81346-2	F
installation altitude at height above sea level maximum ambient temperature • during operation • during storage • during transport -40 +80 °C • during transport -40 +80 °C temperature compensation -25 +60 °C relative humidity during operation 10 95 % Main circuit number of poles for main current circuit adjustable current response value current of the current-dependent overload release operating voltage • rated value 1 000 V	Substance Prohibitance (Date)	07/01/2006
ambient temperature • during operation • during storage • during transport • during transport -40 +80 °C • during transport -40 +80 °C temperature compensation -25 +60 °C relative humidity during operation 10 95 % Main circuit number of poles for main current circuit adjustable current response value current of the current-dependent overload release operating voltage • rated value 1 000 V	Ambient conditions	
 during operation during storage during transport 40 +80 °C during transport 40 +80 °C temperature compensation 25 +60 °C relative humidity during operation 10 95 % Main circuit number of poles for main current circuit adjustable current response value current of the current-dependent overload release operating voltage rated value 1 000 V 	installation altitude at height above sea level maximum	2 000 m
 ● during storage -40 +80 °C ● during transport -40 +80 °C temperature compensation -25 +60 °C relative humidity during operation 10 95 % Main circuit number of poles for main current circuit adjustable current response value current of the current-dependent overload release operating voltage ● rated value 1 000 V 	ambient temperature	
● during transport temperature compensation -25 +60 °C relative humidity during operation 10 95 % Main circuit number of poles for main current circuit adjustable current response value current of the current-dependent overload release operating voltage • rated value -40 +80 °C -40 +80 °C -40 +80 °C -25 +60 °C 3 40 95 %	 during operation 	-25 +60 °C
temperature compensation -25 +60 °C relative humidity during operation 10 95 % Main circuit number of poles for main current circuit adjustable current response value current of the current-dependent overload release operating voltage • rated value - rated value - value current - compensation -25 +60 °C 3 -25 +60 °C 55 95 %	 during storage 	-40 +80 °C
relative humidity during operation 10 95 % Main circuit number of poles for main current circuit adjustable current response value current of the current-dependent overload release operating voltage • rated value 1 000 V	during transport	-40 +80 °C
Main circuit number of poles for main current circuit adjustable current response value current of the current-dependent overload release operating voltage • rated value 1 000 V	temperature compensation	-25 +60 °C
number of poles for main current circuit adjustable current response value current of the current-dependent overload release operating voltage • rated value 3 55 250 A 1 000 V	relative humidity during operation	10 95 %
adjustable current response value current of the current-dependent overload release operating voltage • rated value 55 250 A 1 000 V	Main circuit	
current-dependent overload release operating voltage • rated value	number of poles for main current circuit	3
• rated value 1 000 V	,	55 250 A
	operating voltage	
• at AC-3e rated value maximum 1 000 V	rated value	1 000 V
	 at AC-3e rated value maximum 	1 000 V

operational current rated value • for 3-phase motions at 500 V at 50 Hz • for AC motions at 500 V at 50	operating frequency reted value	50 60 H ₇
poperational current at AC-26 and 400 V rated value operating power • of 3-phase motors at 400 V at 50 Hz • for AC motors at 500 V at 50 Hz • for AC motors at 500 V at 50 Hz • for AC motors at 500 V at 50 Hz • for AC motors at 500 V at 50 Hz • for AC motors at 500 V at 50 Hz • for AC motors at 500 V at 50 Hz • for AC motors at 500 V at 50 Hz • for AC motors at 500 V at 50 Hz • for contacts for auxiliary contacts • for message "tirpped" unuher of AC contacts for auxiliary contacts • for message "tirpped" unuher of AC contacts for auxiliary contacts • at 24 V • at 110 V • at 120 V • at 120 V • at 120 V • at 120 V • at 100 V • at 125 V • at 60 V • at 125 V • at 60 V • at 125 V • at 60 V • at 125 V • at 100 V • at	operating frequency rated value	50 60 Hz
operating power • for Acmotors at 900 V at 50 Hz • for AC motors at 900 V at 50 Hz • for AC motors at 900 V at 50 Hz • for AC motors at 900 V at 50 Hz • for AC motors at 900 V at 50 Hz design of the auxiliary switch number of NC contacts for auxiliary contacts • note • note • note unmber of NC contacts for auxiliary contacts • note number of NC contacts for auxiliary contacts • note operational current of auxiliary contacts • at 24 V • at 120 V • at 110 V • at 120 V • at 120 V • at 120 V • at 140 V • at	•	
• for 3-phase motors at 800 V at 50 Hz • for AC motors at 800 V at 50 Hz • for AC motors at 800 V at 50 Hz • for AC motors at 800 V at 50 Hz • for AC motors at 800 V at 50 Hz • for AC motors at 800 V at 50 Hz • for AC motors at 800 V at 50 Hz • for AC motors at 800 V at 50 Hz • for Contacts for auxiliary contacts • for contact of design of the auxiliary switch • for contact of design of the auxiliary contacts • for message "tripped" • for for message "tripped" • for sulling tripped (accordated to for message		230 A
For AC motors at 560 V at 50 Hz For AC motors at 660 V at 50 Hz For For AC motors at 660 V at 50 Hz For For AC motors at 660 V at 50 Hz For For AC motors at 660 V at 50 Hz For For For AC motors at 660 V at 50 Hz For For For AC motors at 660 V at 50 Hz For For For AC motors at 660 V at 50 Hz For For For AC motors at 660 V at 50 Hz For For For AC motors at 660 V at 50 Hz For For For For For For For For For		30 132 kW
For AC motors at 690 V at 50 Hz		
Auxiliary circuit design of the auxiliary switch		
design of the auxiliary switch number of NC contacts for auxiliary contacts + note + n		55 250 KVV
number of NC contacts for auxiliary contacts oncle number of NO contacts for auxiliary contacts oncle number of CO contacts for auxiliary contacts operational current of auxiliary contacts at AC-15 ol 24 V ol 11 10 V ol 12 20 V ol 15 A ol 12 20 V ol 16 V ol 17 20 V ol 17 20 V ol 17 20 V ol 18 10		integrated
note number of NO contacts for auxiliary contacts 1		
number of NO contacts for auxiliary contacts notice number of CO contacts for auxiliary contacts operational current of auxiliary contacts at AC-15 • a12 4V • a1 110 V • 4A • a1 120 V • 4A • a1 120 V • 4A • a1 120 V • a1 125 V • a1 230 V operational current of auxiliary contacts at DC-13 • a1 24 V • a1 10 V • a1 10 V • a1 125 V • a1 230 V operational current of auxiliary contacts at DC-13 • a1 24 V • a1 60 V • a1 110 V • a1 125 V • a1 10 V Protective and monitoring functions trip class CLASS 10E design of the overload release electronic ULCSS ratings full-load current (FLA) for 3-phase AC motor • a1 48 V Y rated value • a1 600 V r		
number of CO contacts for auxillary contacts 0 operational current of auxillary contacts at AC-15 • at 24 V • at 110 V • at 120 V • at 125 V • at 28 V • at 29 V • at 80 V • at 110 V • at 110 V • at 110 V • at 110 V • at 125 V • at 28 V • at 60 V • at 110 V • at 125 V • at 110 V • at 125 V • at 110 V • at 125 V • at 110 V • at 126 V • at 110 V • at 126 V • at 110 V • at 126 V • at 126 V • at 126 V • at 126 V • at 127 V • at 28 V • at 38 V • at 28 V • at 38 V • at 28 V • at 38 V • a		
operational current of auxiliary contacts at AC-15 at 24 V at 110 V 4 A at 110 V 4 A 4 A 4 A 4 A 4 A 4 A 4 A 4	_	
operational current of auxiliary contacts at AC-15 • at 24 V • at 120 V • at 125 V • at 230 V operational current of auxiliary contacts at DC-13 • at 24 V • at 230 V operational current of auxiliary contacts at DC-13 • at 24 V • at 80 V • at 110 V • at 110 V • at 125 V • at 125 V • at 120 V • at 110 V • at 125 V • at 120 V • at 110 V • at 125 V • at 120 V • at 120 V • at 120 V • at 140 V • at 125 V • at 120 V • at		
all 24 V		
• at 110 V • at 125 V • at 125 V • at 230 V operational current of auxiliary contacts at DC-13 • at 24 V • at 60 V • at 110 V • at 110 V • at 125 V • at 28 O • at 110 V • at 110 V • at 110 V • at 110 V • at 125 V • at 22 A • at 60 V • at 110 V • at 125 V • at 220 V • D.33 A • at 22 V • at 220 V • D.11 A Protective and monitoring functions trip class design of the overload release UL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 60 OV rated value • or 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 • for short-circuit protection of the auxiliary switch required in fastening method fastening method fastening method Contactor mounting/stand-alone installation height 119 mm width 120 mm Connections/ Terminals product component removable terminal for auxillary and control circuit rarangement of electrical connectors for main current circuit arrangement of electrical connectors for main current circuit rype of electrical connectors • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts • solid or stranded 1x (0.5 4 mm²), 2x (0.5 2.5 mm²) 1x (0.5 4 mm²), 2x (0.5 2.5 mm²) 1x (0.5 4 mm²), 2x (0.5 2.5 mm²)		4 A
e at 120 V e at 125 V e at 230 V operational current of auxiliary contacts at DC-13 e at 24 V e at 60 O e at 110 V e at 125 V e at 125 V e at 125 V e at 125 V our at 125 V e at 20 N e at 125 V e at 20 V e at 125 V e at 20 V e at 30 V rated value e at 60		
e at 125 V e at 230 V 3 A operational current of auxiliary contacts at DC-13 e at 24 V e at 60 V e at 110 V e at 125 V e at 220 V e at 125 V e at 220 V Protective and monitoring functions trip class CLASS 10E design of the overload release UL/GSA ratings full-load current (FLA) for 3-phase AC motor e at 480 V rated value e at 600 V rated value e ontact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link e for short-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required fuse gG: 500 A, Class L: 700 A gG: 500		
e at 230 V operational current of auxiliary contacts at DC-13 e at 24 V e at 60 V other strip st		
operational current of auxiliary contacts at DC-13 • at 24 V • at 60 V • at 110 V • at 125 V • at 122 V Protective and monitoring functions trip class class CLASS 10E design of the overload release UL/GSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 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 • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method height 119 mm width 20 mm depth Connections/ Terminals product component removable terminal for auxiliary and control circuit view of or auxiliary and control circuit view of onnectable conductor cross-sections • for auxiliary contacts • for auxiliary contacts - solid - solid or stranded 2 A 2 A 0.33 A 0.34 CLASS 10E CLASS 10		
at 24 V at 60 V billion at 110 V billion at 125 V billion at 126 V billion at 126 V billion at 127 V billion at 128 V billio		3 A
at 160 V at 1126 V at 126 V at 126 V 0.3 A at 220 V 0.11 A Protective and monitoring functions trip class design of the overload release dul-CosA 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 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 oassignment 2 required with type of of assignment 2 required for short-circuit protection of the auxiliary switch required for short-circuit protection of the auxiliary switch required for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method Contactor mounting/stand-alone installation height 119 mm depth Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection for main current circuit type of electrical connectors for main current circuit type of connectable conductor cross-sections for auxiliary contacts for auxiliary cont		2 A
at 110 V at 125 V at 126 V both services and monitoring functions trip class classing of the overload release UL/GSA 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 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 mounting position fastening method height for any for a function of the main for auxiliary and control circuit for main current circuit type of electrical connection for main current circuit for auxiliary and control circuit type of connectable conductor cross-sections for auxiliary and control circuit connectable conductor cross-sections for auxiliary and control circuit connectable conductor cross-sections for auxiliary contacts - solid - solid or stranded 1x (0.5 4 mm²), 2x (0.5 2.5 mm²) - solid or stranded 1x (0.5 4 mm²), 2x (0.5 2.5 mm²) - solid or stranded		
at 125 V at 220 V brotective and monitoring functions trip class class CLASS 10E design of the overload release click at 480 V rated value at 600 V rated value at 600 V rated value before contact rating of auxiliary contacts according to UL contact rating of auxiliary and control circuit contact rating at a control according to UL contactor mounting/stand-alone installation fastening method contactor mounting/stand-alone installation any contactor mounting/stand-alone installation bight 119 mm width depth 220 mm depth connections/ Terminals product component removable terminal for auxiliary and control circuit busbar connection • for main current circuit for auxiliary and control circuit screw-type terminals Top and bottom type of connectable conductor cross-sections • for auxiliary contacts - solid 1x (0.5 4 mm²), 2x (0.5 2.5 mm²) tx (0.5 4 mm²), 2x (0.5 2.5 mm²)		
e at 220 V Protective and monitoring functions trip class		
Protective and monitoring functions trip class design of the overload release electronic ULGSA ratingS full-load current (FLA) for 3-phase AC motor • at 480 V rated value • 250 A 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 Installation/ mounting/ dimensions mounting position fastening method height height 119 mm width depth Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection • for main current circuit • for auxiliary and control circuit type of connectable conductor cross-sections • for auxiliary contacts — solid — solid or stranded CLASS 10E electronic electronic ULGSA rating CLASS 10E electronic electronic (LASS 10E electronic (LASS 10E electronic (Bectronic (LASS 10E electronic (Bectronic (Bec		
trip class design of the overload release electronic 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 - with type of coordination 1 required — with type of coordination 1 required — with type of coordination 1 required (Fequired) Installation/ mounting/ dimensions mounting position depth - vith type of coordination 1 required - for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method Contactor mounting/stand-alone installation height 119 mm width 120 mm depth 155 mm Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection • for main current circuit • for auxiliary and control circuit type of connectable conductor cross-sections • for auxiliary contacts — solid — solid or stranded CLASS 10E electronic 250 A 250 A 250 A 260 A 260 Class L: 700 A 36: 500		0.11 A
design of the overload release electronic UL/CSA ratings full-load current (FLA) for 3-phase AC motor		CLASS 40F
full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value • at 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 required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for auxiliary mounting/ dimensions mounting position any fastening method Contactor mounting/stand-alone installation height 119 mm depth 120 mm depth Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection • for main current circuit • for auxiliary and control circuit arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections • for auxiliary contacts — solid — solid or stranded 1x (0.5 4 mm²), 2x (0.5 2.5 mm²) 1x (0.5 4 mm²), 2x (0.5 2.5 mm²)	<u> </u>	
full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value • at 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 fuse gG: 500 A • for short-circuit protection of the auxiliary switch equired any fastening method contactor mounting/stand-alone installation height 119 mm width depth 120 mm depth 155 mm Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection • for auxiliary and control circuit arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections • for auxiliary contacts — solid — solid or stranded 250 A 250 A 250 A 260 A 8600 / R300 8600 / R300		electronic
at 480 V rated value at 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 required for short-circuit protection of the auxiliary switch required for short-circuit protection of the auxiliary switch required for short-circuit protection of the auxiliary switch required for short-circuit protection of the auxiliary switch required for short-circuit protection of the auxiliary switch required for short-circuit protection of the auxiliary switch fuse gG: 500 A, Class L: 700 A gG: 500 A, Class L: 700 A gG: 500 A fuse gG: 6 A contactor mounting/stand-alone installation height 119 mm width 120 mm depth 155 mm Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection for main current circuit for auxiliary and control circuit arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections for auxiliary contacts screw-type terminals 1x (0.5 4 mm²), 2x (0.5 2.5 mm²) 1x (0.5 4 mm²), 2x (0.5 2.5 mm²)		
at 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 required Installation/ mounting/ dimensions mounting position fastening method height installation/ to contactor mounting/stand-alone installation height installation/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection for auxiliary and control circuit type of connectable conductor cross-sections for auxiliary contacts — solid — solid or stranded 250 A B600 / R300		250 A
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 gG: 500 A, Class L: 700 A gG: 500 A • for short-circuit protection of the auxiliary switch required nequired Installation/ mounting/ dimensions mounting position fastening method Contactor mounting/stand-alone installation height 119 mm width 120 mm depth 155 mm Connections/ Terminals product component removable terminal for auxiliary and control circuit vpe of electrical connection • for auxiliary and control circuit arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections • for auxiliary contacts — solid — solid 1x (0.5 4 mm²), 2x (0.5 2.5 mm²) 1x (0.5 4 mm²), 2x (0.5 2,5 mm²) 1x (0.5 4 mm²), 2x (0.5 2,5 mm²)		
Short-circuit protection design of the fuse link • for short-circuit protection of the main circuit — with type of coordination 1 required gG: 500 A, Class L: 700 A — with type of assignment 2 required for short-circuit protection of the auxiliary switch required for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position any fastening method Contactor mounting/stand-alone installation height 119 mm width 120 mm depth 155 mm Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection • for main current circuit • for auxiliary and control circuit arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections • for auxiliary contacts — solid — solid or stranded 1x (0.5 4 mm²), 2x (0.5 2.5 mm²) 1x (0.5 4 mm²), 2x (0.5 2,5 mm²)		
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 9G: 500 A, Class L: 700 A 9G: 500 A • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method Contactor mounting/stand-alone installation height 119 mm depth 120 mm Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection • for main current circuit • for auxiliary and control circuit arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections • for auxiliary contacts — solid — solid 1x (0.5 4 mm²), 2x (0.5 2.5 mm²) 1x (0.5 4 mm²), 2x (0.5 2,5 mm²)		D000 / K300
• 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 Installation/ mounting/ dimensions mounting position fastening method Contactor mounting/stand-alone installation height 119 mm width 120 mm depth 155 mm Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection • for main current circuit • for auxiliary and control circuit arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections • for auxiliary contacts — solid — solid or stranded yes 25.00 A, Class L: 700 A gG: 500 A fuse gG: 6 A fuse gG		
- with type of coordination 1 required - with type of assignment 2 required 9G: 500 A, Class L: 700 A 9 for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method Contactor mounting/stand-alone installation height 119 mm width 120 mm depth 155 mm Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection • for main current circuit • for auxiliary and control circuit arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections • for auxiliary contacts - solid - solid 1x (0.5 4 mm²), 2x (0.5 2.5 mm²) 1x (0.5 4 mm²), 2x (0.5 2.5 mm²)	9	
- with type of assignment 2 required • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method height 119 mm width depth 155 mm Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection • for main current circuit arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections • for auxiliary contacts - solid - solid - solid or stranded fuse gG: 500 A fuse gG: 6 fuse gG: 6 A fuse gG: 6 fuse gG: 6 fuse gater fus	·	aC. 500 A. Class I. 700 A
for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method		
Installation/ mounting/ dimensions mounting position fastening method height width 119 mm width 120 mm depth Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection • for main current circuit • for auxiliary and control circuit type of connectable conductor cross-sections • for auxiliary contacts - solid - solid or stranded any Contactor mounting/stand-alone installation 119 mm Yes 120 mm 120 mm Yes Yes Top and bottom 1x (0.5 4 mm²), 2x (0.5 2.5 mm²) 1x (0.5 4 mm²), 2x (0.5 2,5 mm²)		
Installation/ mounting/ dimensions mounting position fastening method height vidth depth Connections/ Terminals product component removable terminal for auxiliary and control circuit for auxiliary and control circuit arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections of or auxiliary contacts - solid - solid or stranded any Contactor mounting/stand-alone installation 119 mm 120 mm 120 mm 125 mm Yes 4 yes Top and bottom Top and bottom		Tuse gg: 6 A
mounting position fastening method Contactor mounting/stand-alone installation height 119 mm width 120 mm depth 155 mm Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection • for main current circuit • for auxiliary and control circuit arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections • for auxiliary contacts - solid - solid or stranded any Contactor mounting/stand-alone installation 119 mm 120 mm 12	·	
fastening method height 119 mm width 120 mm depth Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection • for main current circuit • for auxiliary and control circuit arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections • for auxiliary contacts — solid — solid or stranded Contactor mounting/stand-alone installation 19 mm 19 ma 19 mm 19 ma Top amd busbar connection screw-type terminals Top and bottom 1 x (0.5 4 mm²), 2x (0.5 2.5 mm²) 1 x (0.5 4 mm²), 2x (0.5 2.5 mm²)	-	any
height 119 mm width 120 mm depth 155 mm Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection		-
width 120 mm depth 155 mm Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection • for main current circuit busbar connection • for auxiliary and control circuit screw-type terminals arrangement of electrical connectors for main current circuit Top and bottom type of connectable conductor cross-sections • for auxiliary contacts — solid 1x (0.5 4 mm²), 2x (0.5 2.5 mm²) — solid or stranded 1x (0.5 4 mm²), 2x (0.5 2,5 mm²)		-
Description Terminals		
product component removable terminal for auxiliary and control circuit type of electrical connection • for main current circuit • for auxiliary and control circuit arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections • for auxiliary contacts - solid - solid - solid or stranded Yes busbar connection screw-type terminals Top and bottom 1x (0.5 4 mm²), 2x (0.5 2.5 mm²) 1x (0.5 4 mm²), 2x (0.5 2,5 mm²)		
product component removable terminal for auxiliary and control circuit type of electrical connection • for main current circuit • for auxiliary and control circuit arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections • for auxiliary contacts — solid — solid or stranded Yes busbar connection screw-type terminals Top and bottom 1x (0.5 4 mm²), 2x (0.5 2.5 mm²) 1x (0.5 4 mm²), 2x (0.5 2.5 mm²)	•	
and control circuit type of electrical connection • for main current circuit • for auxiliary and control circuit screw-type terminals arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections • for auxiliary contacts — solid — solid — solid or stranded 1x (0.5 4 mm²), 2x (0.5 2.5 mm²) 1x (0,5 4 mm²), 2x (0,5 2,5 mm²)		Yes
 for main current circuit for auxiliary and control circuit arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections for auxiliary contacts — solid — solid or stranded 1x (0.5 4 mm²), 2x (0.5 2.5 mm²) 1x (0,5 4 mm²), 2x (0,5 2,5 mm²) 		100
 for main current circuit for auxiliary and control circuit arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections for auxiliary contacts — solid — solid or stranded 1x (0.5 4 mm²), 2x (0.5 2.5 mm²) 1x (0,5 4 mm²), 2x (0,5 2,5 mm²) 	type of electrical connection	
arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections		busbar connection
arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections	 for auxiliary and control circuit 	screw-type terminals
type of connectable conductor cross-sections		
 ◆ for auxiliary contacts — solid — solid or stranded 1x (0.5 4 mm²), 2x (0.5 2.5 mm²) 1x (0,5 4 mm²), 2x (0,5 2,5 mm²) 	•	
— solid 1x (0.5 4 mm²), 2x (0.5 2.5 mm²) — solid or stranded 1x (0,5 4 mm²), 2x (0,5 2,5 mm²)	type of connectable conductor cross-sections	
— solid or stranded 1x (0,5 4 mm²), 2x (0,5 2,5 mm²)	 for auxiliary contacts 	
	— solid	
— finely stranded with core end processing 1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²)		
	— finely stranded with core end processing	1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²)

 at AWG cables for auxiliary contacts 	2x (20 14)		
tightening torque			
 for main contacts with screw-type terminals 	20 22 N·m		
 for auxiliary contacts with screw-type terminals 	0.8 1.2 N·m		
design of the thread of the connection screw			
 for main contacts 	M10		
 of the auxiliary and control contacts 	M3		
Safety related data			
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		
Communication/ Protocol			
type of voltage supply via input/output link master	No		
Electromagnetic compatibility			
conducted interference			
 due to burst according to IEC 61000-4-4 	2 kV (power ports), 1 kV (signal ports) corresponds to degree of severity 3		
 due to conductor-earth surge according to IEC 61000-4-5 	2 kV (line to earth) corresponds to degree of severity 3		
 due to conductor-conductor surge according to IEC 61000-4-5 	1 kV (line to line) corresponds to degree of severity 3		
 due to high-frequency radiation according to IEC 61000-4-6 	10 V in frequency range 0.15 to 80 MHz, modulation 80 % AM with 1 kHz		
field-based interference according to IEC 61000-4-3	10 V/m		
electrostatic discharge according to IEC 61000-4-2	6 kV contact discharge / 8 kV air discharge		
Display			
display version for switching status	Slide switch		
Certificates/ approvals			
General Product Approval		EMC	



Confirmation









For use in hazardous locations **Declaration of Conformity**

Test Certificates

Marine / Shipping





Special Test Certificate

Type Test Certificates/Test Report





Marine / Shipping

other





Confirmation

Miscellaneous

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=3RB2066-1GC2

Cax online generator

 $\underline{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RB2066-1GC2}$

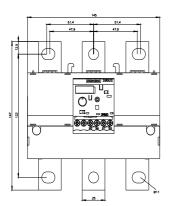
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RB2066-1GC2

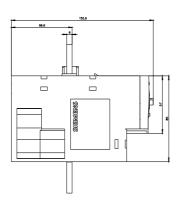
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

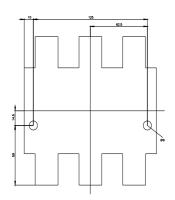
 $\underline{\text{http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RB2066-1GC2\&lang=en}}$

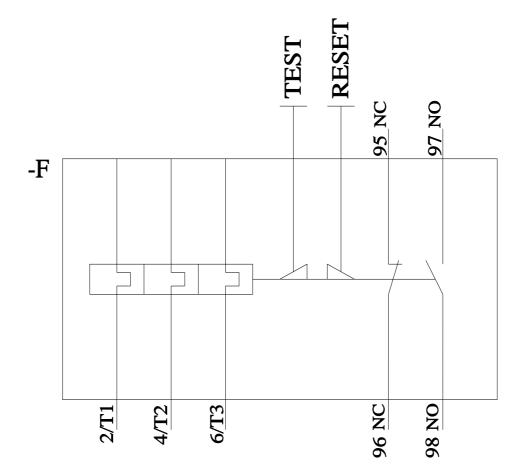
Characteristic: Tripping characteristics, I²t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RB2066-1GC2/char

Further characteristics (e.g. electrical endurance, switching frequency)
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RB2066-1GC2&objecttype=14&gridview=view1









last modified: 2/9/2022 🖸