SIEMENS

Data sheet

3RB3016-2PB0



Overload relay 1...4 A for motor protection Size S00, Class 20E Contactor mounting Main circuit: Screw Auxiliary circuit: Screw Manual-Automatic-Reset

Product brand name	SIRIUS		
Product designation	solid-state overload relay		
Product type designation	3RB3		
General technical data			
Size of overload relay	S00		
Size of contactor can be combined company-specific	S00		
Power loss [W] total typical	0.1 W		
Insulation voltage with degree of pollution 3 rated value	690 V		
Surge voltage resistance rated value	6 kV		
maximum permissible voltage for safe isolation			
 in networks with grounded star point between auxiliary and auxiliary circuit 	300 V		
 in networks with grounded star point between auxiliary and auxiliary circuit 	300 V		
 in networks with grounded star point between main and auxiliary circuit 	600 V		
 in networks with grounded star point between main and auxiliary circuit 	690 V		
Protection class IP			

• on the front	IP20			
• of the terminal	IP20			
Shock resistance	15g / 11 ms			
• acc. 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	4 A			
Recovery time	-			
 after overload trip with automatic reset typical 	3 min			
 after overload trip with remote-reset 	0 min			
 after overload trip with manual reset 	0 min			
Type of protection	II (2) G [Ex e] [Ex d] [Ex px] II (2) D [Ex t] [Ex p]			
Certificate of suitability relating to ATEX	PTB 09 ATEX 3001			
Protection against electrical shock	finger-safe			
Reference code acc. to DIN EN 81346-2	F			
Ambient conditions				
Installation altitude at height above sea level				
• maximum	2 000 m			
Ambient temperature	-			
during operation	-25 +60 °C			
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	3			
Adjustable pick-up value current of the current- dependent overload release	1 4 A			
Operating voltage	-			
• rated value	690 V			
 at AC-3 rated value maximum 	690 V			
Operating frequency rated value	50 60 Hz			
Operating current rated value	4 A			
Operating power				
 for three-phase motors at 400 V at 50 Hz 	0.37 1.5 kW			
● for AC motors at 500 V at 50 Hz	0.37 2.2 kW			
• for AC motors at 690 V at 50 Hz	0.55 3 kW			
Auxiliary circuit				
Design of the auxiliary switch	integrated			
Number of NC contacts for auxiliary contacts	1			
- N. (for our to store discourse stice			

Note

for contactor disconnection

Note	for message "tripped"				
Number of CO contacts					
 for auxiliary contacts 	0				
Operating current of auxiliary contacts at AC-15					
• at 24 V	4 A				
● at 110 V	4 A				
● at 120 V	4 A				
● at 125 V	4 A				
• at 230 V	3 A				
Operating current of auxiliary contacts at DC-13					
• at 24 V	2 A				
• at 60 V	0.55 A				
● at 110 V	0.3 A				
• at 125 V	0.3 A				
• at 220 V	0.11 A				
Protective and monitoring functions Trip class	CLASS 20E				
Design of the overload release	electronic				
UL/CSA ratings					
Full-load current (FLA) for three-phase AC motor					
• at 480 V rated value	4 A				
at 600 V rated value	4 A				
Contact rating of auxiliary contacts according to UL	B600 / R300				
Short-circuit protection					
Design of the fuse link					
 for short-circuit protection of the main circuit 					
 — with type of coordination 1 required 	gG: 35 A, RK5: 15 A				
 — with type of assignment 2 required 	gG: 20 A				
 for short-circuit protection of the auxiliary switch 	fuse gG: 6 A				
required					
Installation/ mounting/ dimensions					
Mounting position	any				
Mounting type	direct mounting				
Height	79 mm				
Width	45 mm				
Depth	73 mm				
Required spacing					
 with side-by-side mounting 					
— forwards	0 mm				
— Backwards	0 mm				
— upwards	0 mm				

- downwards0 mm- at the side0 mm- for grounded parts0 mm- forwards0 mm- Backwards0 mm- upwards0 mm- at the side6 mm- downwards0 mm- for live parts0 mm- forwards0 mm- upwards0 mm- forwards0 mm- upwards0 mm- upwards0 mm- upwards0 mm- upwards0 mm- upwards0 mm- upwards0 mm- downwards0 mm- at the side6 mm- at the side1 mm- at the side1 mm- at the side1 mm- for auxiliary and control current circuitscrew-type terminals- for auxiliary and control current circuit						
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	— at the side	0 mm				
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Arrangement of electrical connectors for main current circuitTop and bottomType of connectable conductor cross-sectionsTop and bottom• for main contacts- solid- solid1x (0.5 4 mm²), 2x (0.5 1.5 mm²), 2x (0.75 4 mm²)- single or multi-stranded1x (0.5 4 mm²), 2x (0.5 1,5 mm²), 2x (0.75 4 mm²)- finely stranded with core end processing1x (0.5 4 mm²), 2x (0.5 2,5 mm²)• for auxiliary contacts1x (20 12), 2x (20 12)Type of connectable conductor cross-sections1x (0.5 4 mm²), 2x (0.5 2,5 mm²)• for auxiliary contacts1x (0.5 4 mm²), 2x (0.5 2,5 mm²)- solid1x (0.5 4 mm²), 2x (0.5 2,5 mm²)- solid1x (0.5 4 mm²), 2x (0.5 2,5 mm²)- single or multi-stranded1x (0.5 4 mm²), 2x (0.5 2,5 mm²)- single or multi-stranded1x (0.5 4 mm²), 2x (0.5 1,5 mm²)- single or multi-stranded1x (0.5 4 mm²), 2x (0.5 1,5 mm²)- finely stranded with core end processing1x (0.5 4 mm²), 2x (0.5 1,5 mm²)- finely stranded with core end processing1x (0.5 4 mm²), 2x (0.5 1,5 mm²)- finely stranded with screw-type terminals0.8 1,2 N·m• for main contacts with screw-type terminals0.8 1,2 N·m• for auxiliary contacts with screw-type terminals0.8 1,2 N·m• for auxiliary contacts with screw-type terminals0.8 1,2 N·m• for screwdriver shaftDiameter 5 to 6 mmSize of the screwdriver tipPozidriv PZ 2Design of the thread of the connection screw	 for main current circuit 	screw-type terminals				
circuitiType of connectable conductor cross-sections• for main contacts- solid1x (0.5 4 mm²), 2x (0.5 1.5 mm²), 2x (0.75 4 mm²)- single or multi-stranded1x (0,5 4 mm²), 2x (0,5 1,5 mm²), 2x (0,75 4 mm²)- finely stranded with core end processing1x (0.5 2.5 mm²), 2x (0.5 2.5 mm²)• at AWG conductors for main contacts1x (20 12), 2x (20 12)Type of connectable conductor cross-sections1x (0.5 4 mm²), 2x (0.5 2.5 mm²)• for auxiliary contacts1x (0.5 4 mm²), 2x (0.5 2.5 mm²)- solid1x (0.5 4 mm²), 2x (0.5 2.5 mm²)- solid1x (0.5 4 mm²), 2x (0.5 2.5 mm²)- single or multi-stranded1x (0.5 4 mm²), 2x (0.5 2.5 mm²)- finely stranded with core end processing1x (0.5 4 mm²), 2x (0.5 2.5 mm²)- finely stranded with core end processing1x (0.5 4 mm²), 2x (0.5 1.5 mm²)- finely stranded with core end processing1x (0.5 4 mm²), 2x (0.5 1.5 mm²)- finely stranded with core end processing1x (20 14), 2x (20 14)Tightening torque0.8 1.2 N·m• for main contacts with screw-type terminals0.8 1.2 N·mDesign of screwdriver shaftDiameter 5 to 6 mmSize of the screwdriver tipPozidriv PZ 2Design of the thread of the connection screw1	 for auxiliary and control current circuit 	screw-type terminals				
• for main contactsIx (0.5 4 mm²), 2x (0.5 1.5 mm²), 2x (0.75 4 mm²)- solid1x (0.5 4 mm²), 2x (0.5 1,5 mm²), 2x (0.75 4 mm²)- single or multi-stranded1x (0.5 4 mm²), 2x (0.5 1,5 mm²), 2x (0,75 4 mm²)- finely stranded with core end processing1x (0.5 2.5 mm²), 2x (0.5 2.5 mm²)• at AWG conductors for main contacts1x (20 12), 2x (20 12)Type of connectable conductor cross-sections1x (0.5 4 mm²), 2x (0.5 2.5 mm²)• for auxiliary contacts1x (0.5 4 mm²), 2x (0.5 2.5 mm²)- solid1x (0.5 4 mm²), 2x (0.5 2.5 mm²)- single or multi-stranded1x (0.5 4 mm²), 2x (0.5 2.5 mm²)- finely stranded with core end processing1x (0.5 4 mm²), 2x (0.5 2.5 mm²)• finely stranded with core end processing1x (0.5 4 mm²), 2x (0.5 1.5 mm²)• finely stranded with core end processing1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²)• for main contacts for auxiliary contacts1x (20 14), 2x (20 14)Tightening torque0.8 1.2 N·m• for main contacts with screw-type terminals0.8 1.2 N·m• for auxiliary contacts with screw-type terminals0.8 1.2 N·m• for the screwdriver tipPozidriv PZ 2• Design of the thread of the connection	-	Top and bottom				
solid1x (0.5 4 mm²), 2x (0.5 1.5 mm²), 2x (0.75 4 mm²) single or multi-stranded1x (0,5 4 mm²), 2x (0,5 1,5 mm²), 2x (0,75 4 mm²) finely stranded with core end processing1x (0.5 2.5 mm²), 2x (0.5 2.5 mm²)- at AWG conductors for main contacts1x (20 12), 2x (20 12)Type of connectable conductor cross-sections finely stranded with core end processing1x (0.5 4 mm²), 2x (0.5 2.5 mm²)- solid1x (0.5 4 mm²), 2x (0.5 2.5 mm²)- solid1x (0.5 4 mm²), 2x (0.5 2.5 mm²)- single or multi-stranded1x (0.5 4 mm²), 2x (0.5 2.5 mm²)- finely stranded with core end processing1x (0.5 4 mm²), 2x (0.5 1.5 mm²)- finely stranded with core end processing1x (0.5 4 mm²), 2x (0.5 1.5 mm²)- finely stranded with core end processing1x (0.5 4 mm²), 2x (0.5 1.5 mm²)- finely stranded with core end processing1x (0.5 4 mm²), 2x (0.5 1.5 mm²)- finely stranded with screw-type terminals0.8 1.2 N·m- for main contacts with screw-type terminals0.8 1.2 N·m- for auxiliary contacts with screw-type terminals0.8 1.2 N·m- for screwdriver shaftDiameter 5 to 6 mmSize of the screwdriver tipPozidriv PZ 2Design of the thread of the connection screwVir PZ 2	Type of connectable conductor cross-sections					
single or multi-stranded1x (0,5 4 mm²), 2x (0,5 1,5 mm²), 2x (0,75 4 mm²) finely stranded with core end processing1x (0,5 2,5 mm²), 2x (0,5 2,5 mm²)• at AWG conductors for main contacts1x (20 12), 2x (20 12)Type of connectable conductor cross-sections-• for auxiliary contacts1x (0,5 4 mm²), 2x (0,5 2,5 mm²)- solid1x (0,5 4 mm²), 2x (0,5 2,5 mm²)- single or multi-stranded1x (0,5 4 mm²), 2x (0,5 2,5 mm²)- finely stranded with core end processing1x (0,5 4 mm²), 2x (0,5 2,5 mm²)- finely stranded with core end processing1x (0,5 4 mm²), 2x (0,5 1,5 mm²)- finely stranded with core end processing1x (20 14), 2x (20 14)• for main contacts for auxiliary contacts1x (20 14), 2x (20 14)• for main contacts with screw-type terminals0.8 1.2 N·m• for auxiliary contacts with screw-type termina	• for main contacts					
finely stranded with core end processing1x (0.5 2.5 mm²), 2x (0.5 2.5 mm²)• at AWG conductors for main contacts1x (20 12), 2x (20 12)Type of connectable conductor cross-sections	— solid	1x (0.5 4 mm²), 2x (0.5 1.5 mm²), 2x (0.75 4 mm²)				
• at AWG conductors for main contacts1x (20 12), 2x (20 12)Type of connectable conductor cross-sections1x (0.5 4 mm²), 2x (0.5 2.5 mm²)• for auxiliary contacts1x (0.5 4 mm²), 2x (0.5 2.5 mm²)- single or multi-stranded1x (0.5 4 mm²), 2x (0.5 2.5 mm²)- finely stranded with core end processing1x (0.5 4 mm²), 2x (0.5 1.5 mm²)• at AWG conductors for auxiliary contacts1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²)• at AWG conductors for auxiliary contacts1x (20 14), 2x (20 14)Tightening torque0.8 1.2 N·m• for main contacts with screw-type terminals0.8 1.2 N·m• for auxiliary contacts with screw-type terminals0.8 1.2 N·m• Size of the screwdriver tipPozidriv PZ 2Design of the thread of the connection screwPozidriv PZ 2	— single or multi-stranded	1x (0,5 4 mm²), 2x (0,5 1,5 mm²), 2x (0,75 4 mm²)				
Type of connectable conductor cross-sections• for auxiliary contacts- solid- solid- single or multi-stranded- finely stranded with core end processing+ for auxiliary contacts for auxiliary contacts+ at AWG conductors for auxiliary contacts+ at AWG conductors for auxiliary contacts+ for main contacts with screw-type terminals+ for auxiliary contacts with screw-type terminals+ for auxiliary contacts with screw-type terminals- for auxiliary contacts <th> finely stranded with core end processing </th> <th colspan="4">1x (0.5 2.5 mm²), 2x (0.5 2.5 mm²)</th>	 finely stranded with core end processing 	1x (0.5 2.5 mm²), 2x (0.5 2.5 mm²)				
• for auxiliary contacts1x (0.5 4 mm²), 2x (0.5 2.5 mm²)- solid1x (0.5 4 mm²), 2x (0.5 2.5 mm²)- single or multi-stranded1x (0.5 4 mm²), 2x (0.5 2,5 mm²)- finely stranded with core end processing1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²)• at AWG conductors for auxiliary contacts1x (20 14), 2x (20 14)Tightening torque• for main contacts with screw-type terminals0.8 1.2 N·m• for auxiliary contacts with screw-type terminals0.8 1.2 N·m• for auxiliary contacts with screw-type terminals0.8 1.2 N·m• Size of the screwdriver shaftDiameter 5 to 6 mmSize of the screwdriver tipPozidriv PZ 2	 at AWG conductors for main contacts 					
- solid1x (0.5 4 mm²), 2x (0.5 2.5 mm²)- single or multi-stranded1x (0,5 4 mm²), 2x (0,5 2,5 mm²)- finely stranded with core end processing1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²)• at AWG conductors for auxiliary contacts1x (20 14), 2x (20 14)Tightening torque-• for main contacts with screw-type terminals0.8 1.2 N·m• for auxiliary contacts with screw-type terminals0.8 1.2 N·mDesign of screwdriver shaftDiameter 5 to 6 mmSize of the screwdriver tipPozidriv PZ 2	Type of connectable conductor cross-sections					
single or multi-stranded1x (0,5 4 mm²), 2x (0,5 2,5 mm²) finely stranded with core end processing1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²)• at AWG conductors for auxiliary contacts1x (20 14), 2x (20 14)Tightening torque0.8 1.2 N·m• for main contacts with screw-type terminals0.8 1.2 N·m• for auxiliary contacts with screw-type terminals0.8 1.2 N·mDesign of screwdriver shaftDiameter 5 to 6 mmSize of the screwdriver tipPozidriv PZ 2Design of the thread of the connection screwImage: Content of the screwdriver tip	 for auxiliary contacts 					
- finely stranded with core end processing • at AWG conductors for auxiliary contacts1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²) 1x (20 14), 2x (20 14)Tightening torque • for main contacts with screw-type terminals • for auxiliary contacts with screw-type terminals • for auxiliary contacts with screw-type terminals0.8 1.2 N·mDesign of screwdriver shaftDiameter 5 to 6 mmSize of the screwdriver tipPozidriv PZ 2Design of the thread of the connection screwPozidriv PZ 2	— solid	1x (0.5 4 mm²), 2x (0.5 2.5 mm²)				
• at AWG conductors for auxiliary contacts1x (20 14), 2x (20 14)Tightening torque0.8 1.2 N·m• for auxiliary contacts with screw-type terminals0.8 1.2 N·m• for auxiliary contacts with sc	— single or multi-stranded	1x (0,5 4 mm²), 2x (0,5 2,5 mm²)				
Tightening torque 0.8 1.2 N·m • for main contacts with screw-type terminals 0.8 1.2 N·m • for auxiliary contacts with screw-type terminals 0.8 1.2 N·m Design of screwdriver shaft Diameter 5 to 6 mm Size of the screwdriver tip Pozidriv PZ 2 Design of the thread of the connection screw Image: Content of the connection screw	— finely stranded with core end processing	1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²)				
• for main contacts with screw-type terminals 0.8 1.2 N·m • for auxiliary contacts with screw-type terminals 0.8 1.2 N·m Design of screwdriver shaft Diameter 5 to 6 mm Size of the screwdriver tip Pozidriv PZ 2 Design of the thread of the connection screw Image: Content of the connection screw	 at AWG conductors for auxiliary contacts 	1x (20 14), 2x (20 14)				
for auxiliary contacts with screw-type terminals Design of screwdriver shaft Diameter 5 to 6 mm Pozidriv PZ 2 Design of the thread of the connection screw	Tightening torque					
Design of screwdriver shaft Diameter 5 to 6 mm Size of the screwdriver tip Pozidriv PZ 2 Design of the thread of the connection screw Pozidriv PZ 2	 for main contacts with screw-type terminals 	0.8 1.2 N·m				
Size of the screwdriver tip Pozidriv PZ 2 Design of the thread of the connection screw Pozidriv PZ 2	 for auxiliary contacts with screw-type terminals 	0.8 1.2 N·m				
Design of the thread of the connection screw	-	Diameter 5 to 6 mm				
-	•	Pozidriv PZ 2				
• for main contacts M3	-					
	• for main contacts	M3				

• of the auxiliary	and control contacts		M3		
Communication/ Pro	otocol				
	Type of voltage supply via input/output link master		No		
Electromagnetic con	nnatibility				
Conducted interferen					
• due to burst ac	c. to IEC 61000-4-4		2 kV (power ports), 1 kV (signal ports) corresponds to degree of severity 3		
 due to conducto 61000-4-5 	or-earth surge acc. to	IEC	2 kV (line to earth) corresponds to degree of severity 3		
 due to conducto 61000-4-5 	or-conductor surge a	cc. to IEC	1 kV (line to line) corresponds to degree of severity 3		
 due to high-free 61000-4-6 	quency radiation acc.	to IEC	10 V in frequency range 0.15 to 80 MHz, modulation 80 $\%$ AM with 1 kHz		
Field-bound parasitic	coupling acc. to IEC	61000-4-3	10 V/m		
Electrostatic discharg	ge acc. to IEC 61000-	-4-2	6 kV contact dischar	ge / 8 kV air discharge	
Display					
Display version					
 for switching sta 	atus		Slide switch		
	1				
Certificates/approva					
General Product	Approvai			EMC	For use in haz- ardous loca- tions
CCC	CSA		EAC	C-Tick	ATEX ATEX
Declaration of Conformity	Test Certificates		Marine / Shipping		
EG-Konf.	Special Test Certi- ficate	Type Test Ce ates/Test Re	4	B U R E A U VERITAS	Lloyd's Register LRS
Marine / Shipping	g			other	
ALESTA.	RINA		KIN ROVED PROD	Confirmation	
PRS	RINA	RMRS	DNVGLCOM/AF		
Further information					

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

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

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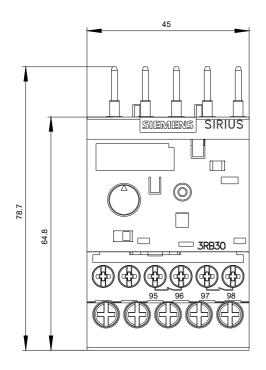
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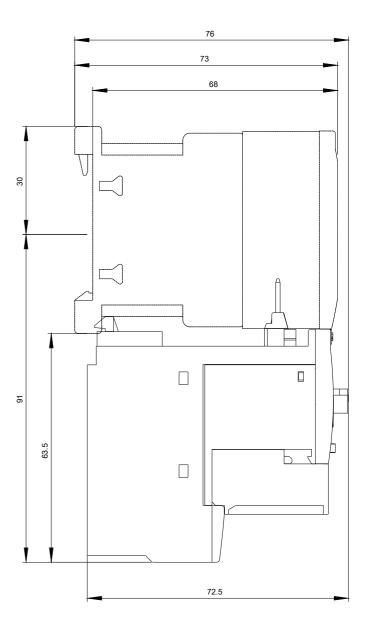
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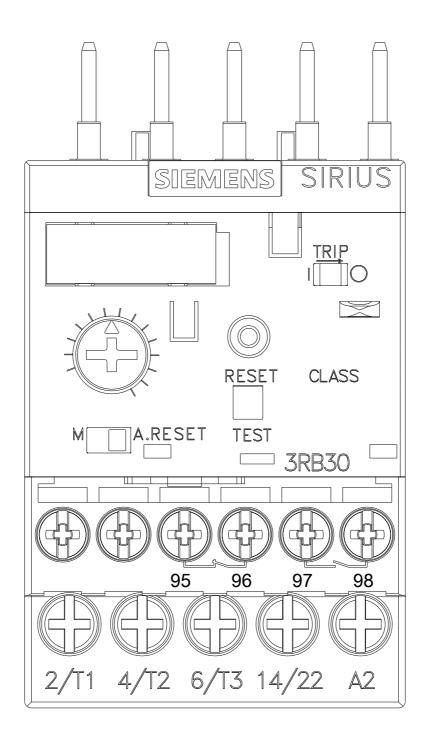
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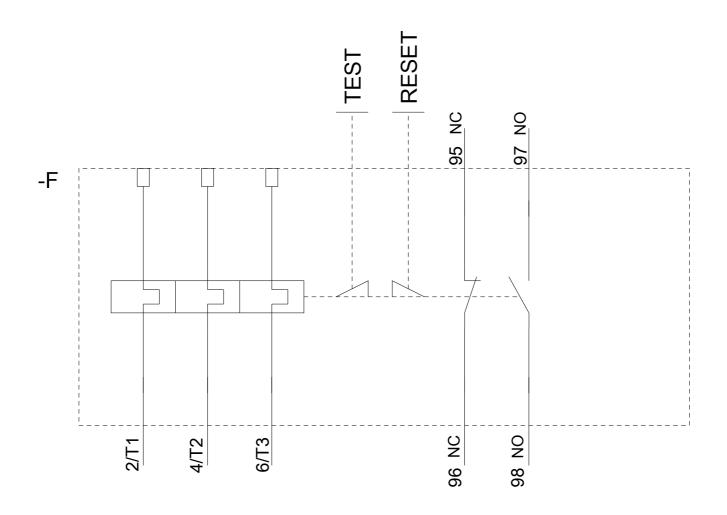
Characteristic: Tripping characteristics, I²t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RB3016-2PB0/char

Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RB3016-2PB0&objecttype=14&gridview=view1









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