SIEMENS

Data sheet

3RV2321-4CC10



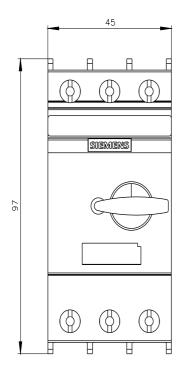
Circuit breaker size S0 for starter combination Rated current 22 A N-release 286 A screw terminal Standard switching capacity

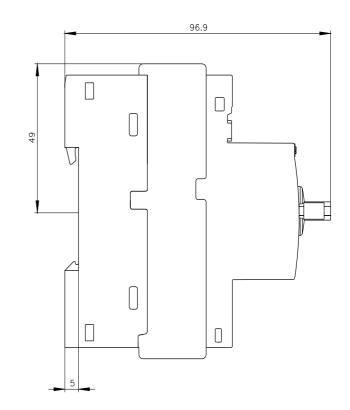
product brand name	SIRIUS		
product designation	Circuit breaker		
design of the product	For starter combinations		
product type designation	3RV2		
General technical data			
size of the circuit-breaker	SO		
size of contactor can be combined company-specific	S00, S0		
product extension auxiliary switch	Yes		
power loss [W] for rated value of the current			
 at AC in hot operating state 	10.5 W		
 at AC in hot operating state per pole 	3.5 W		
insulation voltage with degree of pollution 3 at AC rated value	690 V		
surge voltage resistance rated value	6 kV		
shock resistance according to IEC 60068-2-27	25g / 11 ms		
mechanical service life (operating cycles)			
 of the main contacts typical 	100 000		
 of auxiliary contacts typical 	100 000		
electrical endurance (operating cycles) typical	100 000		
reference code according to IEC 81346-2	Q		
Substance Prohibitance (Date)	10/01/2009		
SVHC substance name	Lead - 7439-92-1		
Ambient conditions			
installation altitude at height above sea level maximum	2 000 m		
ambient temperature			
during operation	-20 +60 °C		
during storage	-50 +80 °C		
during transport	-50 +80 °C		
relative humidity during operation	10 95 %		
Main circuit			
number of poles for main current circuit	3		
operating voltage			
 rated value 	20 690 V		
 at AC-3 rated value maximum 	690 V		
 at AC-3e rated value maximum 	690 V		
operating frequency rated value	50 60 Hz		
operational current rated value	22 A		
operational current			

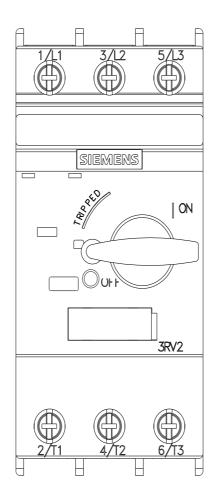
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<tr><td></td><td>depth</td><td>97 mm</td></tr>	 phase failure detection 	No	• at AC at 400 V rated value55 KA• at AC at 500 V rated value10 kA• at AC at 600 V rated value10 kA• at AC at 600 V rated value100 kA• at 240 V rated value100 kA• at 240 V rated value25 kA• at 500 V rated value24 kA• at 600 V rated value28 A• at 600 V rated value28 A• at 600 V rated value22 A• at 480 V rated value3 hp• at 480 V rated value3 hp• at 480 V rated value3 hp• at 400 V rated value5 hp- at 200/280 V rated value3 hp• for 3-phase AC motor7.5 hp- at 200/280 V rated value5 hp- at 200/280 V rated value5 hp- at 200/280 V rated value15 hp- at 200/280 V rated value5 hp- at 400-480 V rated value5 hp- at 400-490 V rated value5 hp- at 400-490 V rated value	maximum short-circuit current breaking capacity (Icu)		• at AC at 500 V rated value10 kA• at AC at 690 V rated value4 kAoperating short-circuit current breaking capacity (lcs) at AC-• at 240 V rated value100 kA• at 400 V rated value25 kA• at 500 V rated value5 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• at AC at 690 V rated value4 kAoperating short-circuit current breaking capacity (Ics) at AC100 kA• at 240 V rated value100 kA• at 400 V rated value25 kA• at 650 V rated value2 kA• at 650 V rated value2 kAresponse value current of instantaneous short-circuit trip unit286 AUL/CSA ratings22 A• at 480 V rated value22 A• at 480 V rated value22 A• at 650 V rated value22 A• at 650 V rated value22 A• at 650 V rated value3 hp• for single-phase AC motor1.5 hp- at 110/120 V rated value3 hp• for 3-phase AC motor7.5 hp- at 230 V rated value7.5 hp- at 200/280 V rated value15 hp- at 200/280 V rated value5 kA• at 600 V rated value5 kp- at 420/280 V rated value7.5 hp- at 200/280 V rated value15 hp- at 200/280 V rated value5 kp- at 420/280 V rated value15 hpShot-circuit protectionYesdesign of the fuse link for IT network for short-circuit protection of the main circuit• at 400 VgL/gG 63 A• at 400 VgL/gG 63 A• at 400 VgL/gG 63 A• at 600 VgL/gG 63 A<	• at AC at 400 V rated value	55 kA																																																																																																																		
operating short-circuit current breaking capacity (Ics) at AC• at 240 V rated value100 kA• at 240 V rated value25 kA• at 500 V rated value5 kA• at 690 V rated value2 kAresponse value current of instantaneous short-circuit trip unit286 AUL/CSA ratingsfull-load current (FLA) for 3-phase AC motor• at 480 V rated value22 A• at 600 V rated value3 hp• for single-phase AC motor1.5 hp- at 110/120 V rated value3 hp• for 3-phase AC motor at 200/208 V rated value7.5 hp- at 200/208 V rated value7.5 hp- at 200/208 V rated value7.5 hp- at 400/480 V rated value15 hpShort-circuit protectionYesdesign of the short-circuit tripmagneticdesign of the short-circuit tripmagneticdesign of the short-circuit tripmagnetice at 400 VgL/gG 63 A• at 600 VgL/gG 60 A	• at AC at 500 V rated value	10 kA																																																																																																																		
• at 240 V rated value100 kA• at 400 V rated value25 kA• at 600 V rated value5 kA• at 600 V rated value2 kAresponse value current of instantaneous short-circuit trip unit286 AUL/CSA ratingsUL/CSA ratingsInterventions of colspan="2">InterventionsInterventionsInterventionsInterventionsInterventionIntervention<	• at AC at 690 V rated value	4 kA																																																																																																																		
eit 400 V rated value 25 kA • at 500 V rated value 5 kA • at 690 V rated value 2 kA response value current of instantaneous short-circuit trip unit 286 A UL/CSA ratings 22 A full-load current (FLA) for 3-phase AC motor 22 A • at 600 V rated value 3 hp • for single-phase AC motor - - at 110/120 V rated value 3 hp • for 3-phase AC motor - - at 200/208 V rated value 7.5 hp - at 460/480 V rated value 15 hp Short-circuit protection Yes design of the fuse link for IT network for short-circuit protuct function short circuit trip magnetic design of the fuse link for IT network for short-circuit protuct function short circuit trip gL/gG 63 A • at 400 V gL/gG 50 A • at 400	operating short-circuit current breaking capacity (Ics) at AC																																																																																																																			
• at 500 V rated value5 kA• at 690 V rated value2 kAresponse value current of instantaneous short-circuit trip unit286 AUL/CSA ratingsUL/CSA ratings2 AVielded mechanical performance [hp]1.5 hp- at 10/120 V rated value1.5 hp- at 200/208 V rated value- A dou/Asto V rated value- Short-circuit protectionYes- at 4800 V- at 480 V <t< td=""><td>• at 240 V rated value</td><td>100 kA</td></t<>	• at 240 V rated value	100 kA																																																																																																																		
• at 690 V rated value2 kAresponse value current of instantaneous short-circuit trip unit286 AUL/CSA ratingsfull-load current (FLA) for 3-phase AC motor• at 480 V rated value22 A• at 480 V rated value22 A• at 600 V rated value22 Ao at 600 V rated value22 A• for single-phase AC motor at 110/120 V rated value1.5 hp- at 110/120 V rated value3 hp• for 3-phase AC motor at 200/208 V rated value5 hp- at 200/208 V rated value5 hp- at 220/208 V rated value15 hp- at 460/480 V rated value16 hp- at 400 VgL/gG 63 A• at 400 VgL/gG 60 A• at 400 VgL/gG 50 A• at 609 VgL/gG 50 AInstallation/ mounting/ dimensions	• at 400 V rated value	25 kA																																																																																																																		
response value current of instantaneous short-circuit trip unit 286 A UL/CSA ratings full-load current (FLA) for 3-phase AC motor	• at 500 V rated value	5 kA																																																																																																																		
UL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value 22 A • at 600 V rated value 22 A yielded mechanical performance [hp] • • for single-phase AC motor - - at 110/120 V rated value 1.5 hp - at 230 V rated value 3 hp • for 3-phase AC motor - - at 200/208 V rated value 7.5 hp - at 200/208 V rated value 7.5 hp - at 220/230 V rated value 7.5 hp - at 220/230 V rated value 7.5 hp - at 460/480 V rated value 15 hp Short-circuit protection Yes design of the short-circuit trip magnetic design of the fuse link for IT network for short-circuit protection Yes • at 400 V gL/gG 63 A • at 600 V gL/gG 50 A • at 600 V gL/gG 50 A • at 600 V gL/gG 50 A	• at 690 V rated value	2 kA																																																																																																																		
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at 460/480 V rated value 15 hp Short-circuit protection Yes product function short circuit protection Magnetic design of the short-circuit trip magnetic design of the fuse link for IT network for short-circuit gL/gG 63 A • at 400 V gL/gG 50 A • at 690 V gL/gG 50 A Installation/ mounting/ dimensions gL/gG 50 A	— at 220/230 V rated value																																																																																																																			
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• at 500 V • at 690 V • at 690 V Installation/ mounting/ dimensions																																																																																																																				
at 690 V gL/gG 50 A Installation/ mounting/ dimensions	• at 400 V	gL/gG 63 A																																																																																																																		
Installation/ mounting/ dimensions	• at 500 V	gL/gG 50 A																																																																																																																		
	• at 690 V	gL/gG 50 A																																																																																																																		
mounting position any	Installation/ mounting/ dimensions																																																																																																																			
	mounting position	any																																																																																																																		
fastening method screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715		screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715																																																																																																																		
height 97 mm																																																																																																																				
width 45 mm		45 mm																																																																																																																		
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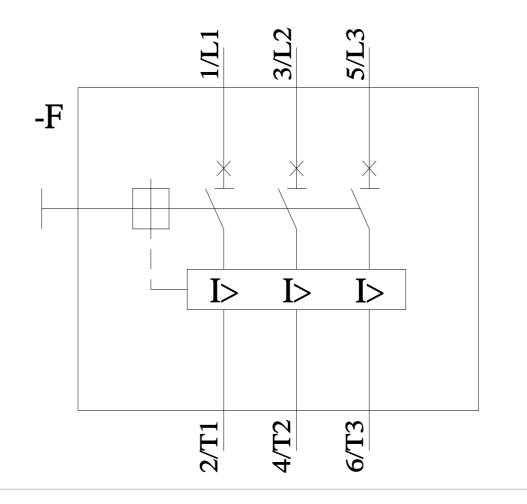
required spacing				
 with side-by-side mounting at the side 	0 mm			
 for grounded parts at 400 V 				
— downwards	30 mm			
— upwards	30 mm			
— at the side	9 mm			
• for live parts at 400 V				
— downwards	30 mm			
— upwards	30 mm			
— at the side	9 mm			
• for grounded parts at 500 V	• mm			
— downwards	30 mm			
	30 mm			
— upwards	9 mm			
— at the side	9 mm			
• for live parts at 500 V				
— downwards	30 mm			
— upwards	30 mm			
— at the side	9 mm			
 for grounded parts at 690 V 				
— downwards	50 mm			
— upwards	50 mm			
— backwards	0 mm			
— at the side	30 mm			
— forwards	0 mm			
 for live parts at 690 V 				
— downwards	50 mm			
— upwards	50 mm			
— backwards	0 mm			
— at the side	30 mm			
— forwards	0 mm			
Connections/ Terminals				
type of electrical connection				
 type of electrical connection for main current circuit 	screw-type terminals			
	screw-type terminals Top and bottom			
for main current circuit				
for main current circuit arrangement of electrical connectors for main current				
for main current circuit arrangement of electrical connectors for main current circuit				
for main current circuit arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections				
for main current circuit arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections	Top and bottom			
for main current circuit arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections • for main contacts — solid or stranded	Top and bottom 2x (1 2.5 mm²), 2x (2.5 10 mm²)			
for main current circuit arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections • for main contacts — solid or stranded — finely stranded with core end processing	Top and bottom 2x (1 2.5 mm²), 2x (2.5 10 mm²) 2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm²			
for main current circuit arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections for main contacts — solid or stranded — finely stranded with core end processing • for AWG cables for main contacts	Top and bottom 2x (1 2.5 mm²), 2x (2.5 10 mm²) 2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm²			
for main current circuit arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections • for main contacts — solid or stranded — finely stranded with core end processing • for AWG cables for main contacts tightening torque	Top and bottom 2x (1 2.5 mm ²), 2x (2.5 10 mm ²) 2x (1 2.5 mm ²), 2x (2.5 6 mm ²), 1x 10 mm ² 2x (16 12), 2x (14 8)			
for main current circuit arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections • for main contacts — solid or stranded — finely stranded with core end processing • for AWG cables for main contacts tightening torque • for main contacts with screw-type terminals	Top and bottom 2x (1 2.5 mm ²), 2x (2.5 10 mm ²) 2x (1 2.5 mm ²), 2x (2.5 6 mm ²), 1x 10 mm ² 2x (16 12), 2x (14 8) 2 2.5 N·m			
for main current circuit arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections for main contacts — solid or stranded — finely stranded with core end processing for AWG cables for main contacts tightening torque for main contacts with screw-type terminals design of screwdriver shaft size of the screwdriver tip	Top and bottom 2x (1 2.5 mm ²), 2x (2.5 10 mm ²) 2x (1 2.5 mm ²), 2x (2.5 6 mm ²), 1x 10 mm ² 2x (16 12), 2x (14 8) 2 2.5 N·m Diameter 5 to 6 mm			
for main current circuit arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections • for main contacts	Top and bottom 2x (1 2.5 mm ²), 2x (2.5 10 mm ²) 2x (1 2.5 mm ²), 2x (2.5 6 mm ²), 1x 10 mm ² 2x (16 12), 2x (14 8) 2 2.5 N·m Diameter 5 to 6 mm Pozidriv size 2			
for main current circuit arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections • for main contacts — solid or stranded — finely stranded with core end processing • for AWG cables for main contacts tightening torque • for main contacts with screw-type terminals design of screwdriver shaft size of the screwdriver tip design of the thread of the connection screw • for main contacts	Top and bottom 2x (1 2.5 mm ²), 2x (2.5 10 mm ²) 2x (1 2.5 mm ²), 2x (2.5 6 mm ²), 1x 10 mm ² 2x (16 12), 2x (14 8) 2 2.5 N·m Diameter 5 to 6 mm			
for main current circuit arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections • for main contacts	Top and bottom 2x (1 2.5 mm ²), 2x (2.5 10 mm ²) 2x (1 2.5 mm ²), 2x (2.5 6 mm ²), 1x 10 mm ² 2x (16 12), 2x (14 8) 2 2.5 N·m Diameter 5 to 6 mm Pozidriv size 2 M4			
for main current circuit arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections for main contacts — solid or stranded — finely stranded with core end processing for AWG cables for main contacts tightening torque for main contacts with screw-type terminals design of screwdriver shaft size of the screwdriver tip design of the thread of the connection screw for main contacts Safety related data product function suitable for safety function	Top and bottom 2x (1 2.5 mm ²), 2x (2.5 10 mm ²) 2x (1 2.5 mm ²), 2x (2.5 6 mm ²), 1x 10 mm ² 2x (16 12), 2x (14 8) 2 2.5 N·m Diameter 5 to 6 mm Pozidriv size 2			
for main current circuit arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections for main contacts solid or stranded finely stranded with core end processing for AWG cables for main contacts tightening torque for main contacts with screw-type terminals design of screwdriver shaft size of the screwdriver tip design of the thread of the connection screw for main contacts 	Top and bottom 2x (1 2.5 mm ²), 2x (2.5 10 mm ²) 2x (1 2.5 mm ²), 2x (2.5 6 mm ²), 1x 10 mm ² 2x (16 12), 2x (14 8) 2 2.5 N·m Diameter 5 to 6 mm Pozidriv size 2 M4 Yes			
for main current circuit arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections for main contacts solid or stranded finely stranded with core end processing for AWG cables for main contacts tightening torque for main contacts with screw-type terminals design of screwdriver shaft size of the screwdriver tip design of the thread of the connection screw for main contacts Safety related data product function suitable for safety function suitability for use safety-related switching on 	Top and bottom 2x (1 2.5 mm ²), 2x (2.5 10 mm ²) 2x (1 2.5 mm ²), 2x (2.5 6 mm ²), 1x 10 mm ² 2x (16 12), 2x (14 8) 2 2.5 N·m Diameter 5 to 6 mm Pozidriv size 2 M4 Yes No			
• for main current circuit arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections • for main contacts — solid or stranded — finely stranded with core end processing • for AWG cables for main contacts tightening torque • for main contacts with screw-type terminals design of screwdriver shaft size of the screwdriver tip design of the thread of the connection screw • for main contacts Safety related data product function suitable for safety function suitability for use • safety-related switching OFF	Top and bottom 2x (1 2.5 mm²), 2x (2.5 10 mm²) 2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm² 2x (16 12), 2x (14 8) 2 2.5 N·m Diameter 5 to 6 mm Pozidriv size 2 M4 Yes No Yes			
 for main current circuit arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections for main contacts	Top and bottom 2x (1 2.5 mm²), 2x (2.5 10 mm²) 2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm² 2x (16 12), 2x (14 8) 2 2.5 N·m Diameter 5 to 6 mm Pozidriv size 2 M4 Yes No Yes 10 a			
 for main current circuit arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections for main contacts	Top and bottom 2x (1 2.5 mm²), 2x (2.5 10 mm²) 2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm² 2x (16 12), 2x (14 8) 2 2.5 N·m Diameter 5 to 6 mm Pozidriv size 2 M4 Yes No Yes			
 for main current circuit arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections for main contacts solid or stranded finely stranded with core end processing for AWG cables for main contacts tightening torque for main contacts with screw-type terminals design of screwdriver shaft size of the screwdriver tip design of the thread of the connection screw for main contacts Safety related data product function suitable for safety function safety-related switching on safety-related switching OFF service life maximum test wear-related service life necessary proportion of dangerous failures	Top and bottom 2x (1 2.5 mm²), 2x (2.5 10 mm²) 2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm² 2x (16 12), 2x (14 8) 2 2.5 N·m Diameter 5 to 6 mm Pozidriv size 2 M4 Yes No Yes 10 a Yes			
 for main current circuit arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections for main contacts solid or stranded finely stranded with core end processing for AWG cables for main contacts tightening torque for main contacts with screw-type terminals design of screwdriver shaft size of the screwdriver tip design of the thread of the connection screw for main contacts Safety related data product function suitable for safety function safety-related switching on safety-related switching OFF service life maximum test wear-related service life necessary proportion of dangerous failures with low demand rate according to SN 31920 	Top and bottom 2x (1 2.5 mm²), 2x (2.5 10 mm²) 2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm² 2x (16 12), 2x (14 8) 2 2.5 N·m Diameter 5 to 6 mm Pozidriv size 2 M4 Yes 10 a Yes 40 %			
 for main current circuit arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections for main contacts solid or stranded finely stranded with core end processing for AWG cables for main contacts tightening torque for main contacts with screw-type terminals design of screwdriver shaft size of the screwdriver tip design of the thread of the connection screw for main contacts Safety related data product function suitable for safety function safety-related switching on safety-related switching OFF service life maximum test wear-related service life necessary proportion of dangerous failures	Top and bottom 2x (1 2.5 mm²), 2x (2.5 10 mm²) 2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm² 2x (16 12), 2x (14 8) 2 2.5 N·m Diameter 5 to 6 mm Pozidriv size 2 M4 Yes No Yes 10 a Yes			
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overdimensioning acc	ording to ISO 13849-2	necessary	Yes				
IEC 61508			_				
safety device type acc	cording to IEC 61508-2		Туре	A			
T1 value							
 for proof test inte 61508 	rval or service life accord	ling to IEC	10 a				
Electrical Safety			_				
protection class IP on the front according to IEC 60529			IP20	IP20			
touch protection on the front according to IEC 60529			finger	finger-safe, for vertical contact from the front			
Display			_				
display version for swite	ching status		Handl	e			
Approvals Certificates		_	_				
General Product App	roval						
CE EG-Konf.	UK CA)	<u>Confirmation</u>		KC	
General Product Approval	Test Certificates			Marine / Shipping			
EHC	<u>Type Test Certific-</u> ates/Test Report	<u>Special Test Ce</u> ate	<u>ertific-</u>	ABS	BUREAU VERITAS		
Marine / Shipping				other			
Lloyds Register us	PRS	RINA		<u>Miscellaneous</u>	<u>Confirmation</u>		
Railway		Environment					
<u>Special Test Certific-</u> <u>ate</u>	<u>Confirmation</u>	EPD	I	Siemens EcoTech	Environmental Con- firmations		
Further information							
Information on the page							
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https://support.industry.siemens.com/cs/ww/en/ps/3RV2321-4CC10 Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,)							
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV2321-4CC10⟨=en Characteristic: Tripping characteristics, I ² t, Let-through current							
https://support.industry.	siemens.com/cs/ww/en/p	os/3RV2321-4CC10	<u>0/char</u>	()			
Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2321-4CC10&objecttype=14&gridview=view1							









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