SIEMENS

Data sheet 3RV1011-1CA10



Circuit breaker size S00 for motor protection, CLASS 10 A-release 1.8...2.5 A N-release 33 A Screw terminal Standard switching capacity

product designation design of the product product type designation General technical data size of the circuit-breaker size of contactor can be combined company-specific product type designation Size of contactor can be combined company-specific product extension auxiliary switch yes power loss [W] for rated value of the current • at AC in hot operating state • at AC in hot operating state per pole insulation voltage with degree of pollution 3 at AC rated value surge voltage resistance rated value mechanical service life (operating cycles) • of the main contacts typical • of auxiliary contacts typical • of auxiliary contacts typical • of auxiliary contacts typical • of protection according to ATEX directive 2014/34/EU EXI I(2) GD certificate of suitability according to ATEX directive 2014/34/EU preference code according to IEC 81346-2 Qu Substance Prohibitance (Date) Ambient conditions Installation altitude at height above sea level maximum ambient temperature • during operation • during storage • during transport • during properation 40 ung storage • during transport • during contact stypical • at AC-3 are divalue maximum • at AC-3 are divalue maximum • at AC-3 are ated value current of the current- dependent current response	product brand name	SIRIUS
design of the product product type designation 3RV1 Size of the circuit-breaker Size of contactor can be combined company-specific Size of contactor can be combined size of contactor can be contactor can be combined size of contactor can be co		
product type designation General tochnical data size of the circuit-breaker size of contactor can be combined company-specific product extension auxiliary switch power loss [W] for rated value of the current • at AC in hot operating state • at AC in hot operating state per pole • at AC in hot operating state per pole insulation voltage with degree of pollution 3 at AC rated value surge voltage resistance rated value mechanical service life (operating cycles) • of the main contacts typical • of auxiliary contacts typical • of auxiliary contacts typical electrical endurance (operating cycles) typical lectrical endurance (operating cycles) typical electrical endurance (operating cycles) typical type of protection according to ATEX directive 2014/34/EU EXII (2) GD certificate of suitability according to ATEX directive 2014/34/EU EXII (2) GD certificate of suitability according to ATEX directive 2014/34/EU DMT 02 ATEX F 001 reference code according to IEC 81346-2 Q Substance Prohibitance (Date) Ambient conditions installation altitude at height above sea level maximum 2 000 m ambient temperature • during operation • during storage • during transport 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 releas operating voltage • rated value • at AC-3 rated value maximum • at AC-3e rated value maximum • at AC-3e rated value maximum • at AC-3e rated value maximum • operating frequency rated value operational current • current response value current of the current-dependent overload releas operating frequency rated value • at AC-3 rated value maximum • 690 V operating frequency rated value operational current activate operational current activate 5.5 A		
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product extension auxiliary switch power loss [W] for rated value of the current		
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of the main contacts typical of auxiliary contacts typical of auxiliary contacts typical electrical endurance (operating cycles) typical type of protection according to ATEX directive 2014/34/EU Ex II (2) GD certificate of suitability according to ATEX directive 2014/34/EU DMT 02 ATEX F 001 reference code according to IEC 81346-2 Q Substance Prohibitance (Date) O1/01/2013 Ambient conditions installation altitude at height above sea level maximum ambient temperature ouring operation oduring operation oduring storage oduring transport 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 at AC-3 rated value maximum at AC-3 rated value maximum of at AC-3 rated value maximum of at AC-3 rated value maximum operational current rated value operational current		
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type of protection according to ATEX directive 2014/34/EU certificate of suitability according to ATEX directive 2014/34/EU preference code according to IEC 81346-2 Qu Substance Prohibitance (Date) Ambient conditions installation altitude at height above sea level maximum ambient temperature during operation during storage during transport 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 at AC-3 rated value maximum ending frequency rated value operational current at XI (2) GD DMT 02 ATEX F 001 DMT 02 ATEX F 001 AC ATEX F 001 OMT 02 ATEX F 001 TOM 04/10/2013 Ambient 02 ON 0 OM 04/0/10/2013 Amb	of auxiliary contacts typical	100 000
certificate of suitability according to ATEX directive 2014/34/EU reference code according to IEC 81346-2 Q Substance Prohibitance (Date) Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation • during storage • during transport 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 • at AC-3 rated value maximum operational current rated value operational current rated value operational current rated value operational current rated value 2.5 A operational current rated value 2.5 A	electrical endurance (operating cycles) typical	100 000
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Substance Prohibitance (Date) Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation • during storage • during transport -50 +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 • at AC-3 rated value maximum 690 V operating frequency rated value operational current rated value 2.5 A operational current rated value 2.5 A	certificate of suitability according to ATEX directive 2014/34/EU	DMT 02 ATEX F 001
installation altitude at height above sea level maximum ambient temperature e during operation e during storage e during transport relative humidity during operation number of poles for main current circuit adjustable current response value current of the current-dependent overload release operating voltage e rated value e at AC-3 rated value maximum e of poles for ated value maximum fego V operating frequency rated value operational current rated value 2.5 A operational current rated value 2.5 A operational current rated value 2.5 A operational current rated value 2.5 A	reference code according to IEC 81346-2	Q
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ambient temperature • during operation • during storage • during transport 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 • at AC-3 rated value maximum • at AC-3e rated value maximum 690 V operating frequency rated value 50 60 Hz operational current rated value 2.5 A	Ambient conditions	
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• during storage • during transport 7-50 +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 • rated value • at AC-3 rated value maximum • at AC-3e rated value maximum operating frequency rated value operational current rated value 2.5 A operational current -50 +80 °C	ambient temperature	
 during transport 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 at AC-3 rated value maximum at AC-3e rated value maximum operating frequency rated value operating frequency rated value operational current rated value 2.5 A 	 during operation 	-20 +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 maximum 690 V • at AC-3 rated value maximum 690 V operating frequency rated value 50 60 Hz operational current 2.5 A	during storage	-50 +80 °C
number of poles for main current circuit adjustable current response value current of the current-dependent overload release operating voltage • rated value • at AC-3 rated value maximum • at AC-3e rated value maximum operating frequency rated value operational current rated value 2.5 A operational current	during transport	-50 +80 °C
number of poles for main current circuit adjustable current response value current of the current- dependent overload release operating voltage • rated value • at AC-3 rated value maximum • at AC-3e rated value maximum operating frequency rated value operational current rated value 2.5 A operational current	relative humidity during operation	10 95 %
adjustable current response value current of the current- dependent overload release operating voltage • rated value • at AC-3 rated value maximum • at AC-3e rated value maximum operating frequency rated value operational current rated value 20 690 V 690 V operational current rated value 50 60 Hz operational current	Main circuit	
dependent overload release operating voltage • rated value • at AC-3 rated value maximum • at AC-3e rated value maximum 690 V operating frequency rated value 50 60 Hz operational current rated value 2.5 A	number of poles for main current circuit	3
 rated value at AC-3 rated value maximum at AC-3e rated value maximum 690 V operating frequency rated value operational current rated value operational current 		1.8 2.5 A
 at AC-3 rated value maximum at AC-3e rated value maximum 690 V operating frequency rated value operational current rated value operational current 	operating voltage	
 at AC-3e rated value maximum 690 V operating frequency rated value operational current rated value operational current 2.5 A	• rated value	20 690 V
operating frequency rated value 50 60 Hz operational current rated value 2.5 A operational current	 at AC-3 rated value maximum 	690 V
operational current rated value 2.5 A operational current	at AC-3e rated value maximum	690 V
operational current	operating frequency rated value	50 60 Hz
	operational current rated value	2.5 A
• at AC-3 at 400 V rated value 2.5 A	operational current	
	• at AC-3 at 400 V rated value	2.5 A

at AC-3e at 400 V rated value	2.5 A
operating power	2.0 /
• at AC-3	
— at 230 V rated value	0.4 kW
	0.75 kW
— at 400 V rated value	
— at 500 V rated value	1.1 kW
— at 690 V rated value	1.5 kW
• at AC-3e	
— at 230 V rated value	0.4 kW
— at 400 V rated value	0.75 kW
— at 500 V rated value	1.1 kW
— at 690 V rated value	1.5 kW
operating frequency	
• at AC-3 maximum	15 1/h
at AC-3e maximum	15 1/h
Auxiliary circuit	
number of CO contacts for auxiliary contacts	0
Protective and monitoring functions	
product function	
ground fault detection	No
phase failure detection	Yes
trip class	CLASS 10
design of the overload release	thermal
maximum short-circuit current breaking capacity (Icu)	
 at AC at 240 V rated value 	100 kA
 at AC at 400 V rated value 	100 kA
 at AC at 500 V rated value 	10 kA
at AC at 690 V rated value	2 kA
operating short-circuit current breaking capacity (lcs) at AC	
 at 240 V rated value 	100 kA
 at 400 V rated value 	100 kA
 at 500 V rated value 	100 kA
at 690 V rated value	2 kA
response value current of instantaneous short-circuit trip unit	33 A
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
at 480 V rated value	2.5 A
at 600 V rated value	2.5 A
yielded mechanical performance [hp]	
 for single-phase AC motor 	
— at 230 V rated value	0.17 hp
• for 3-phase AC motor	
— at 200/208 V rated value	0.5 hp
— at 220/230 V rated value	0.5 hp
— at 460/480 V rated value	1 hp
— at 575/600 V rated value	1.5 hp
Short-circuit protection	
product function short circuit protection	Yes
design of the short-circuit trip	magnetic
design of the fuse link for IT network for short-circuit protection of the main circuit	
• at 240 V	none required
• at 400 V	gL/gG 35 A
• at 500 V	gL/gG 25 A
• at 690 V	gL/gG 25 A
Installation/ mounting/ dimensions	
mounting position	any
fastening method	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715
height	90 mm
width	45 mm
depth	75 mm
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required spacing	
• for grounded parts at 400 V	
— downwards	20 mm
— upwards	20 mm
— at the side	9 mm
• for live parts at 400 V	
— downwards	20 mm
— upwards	20 mm
— at the side	9 mm
• for grounded parts at 500 V	
— downwards	20 mm
— upwards	20 mm
— at the side	9 mm
• for live parts at 500 V	
— downwards	20 mm
— upwards	20 mm
— at the side	9 mm
• for grounded parts at 690 V	
— downwards	20 mm
— upwards	20 mm
— backwards	0 mm
— at the side	9 mm
— forwards	0 mm
• for live parts at 690 V	
— downwards	20 mm
— upwards	20 mm
— backwards	0 mm
— at the side	9 mm
— forwards	0 mm
Connections/ Terminals	
type of electrical connection	
for main current circuit	screw-type terminals
arrangement of electrical connectors for main current circuit	Top and bottom
type of connectable conductor cross-sections	
• for main contacts	
— solid or stranded	2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²), 2x (1 4 mm²)
— finely stranded with core end processing	2x (0.5 1.5 mm²). 2x (0.75 2.5 mm²)
— finely stranded with core end processing	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
type of connectable conductor cross-sections	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
type of connectable conductor cross-sections • for auxiliary contacts	
type of connectable conductor cross-sections • for auxiliary contacts — solid or stranded	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
type of connectable conductor cross-sections • for auxiliary contacts — solid or stranded tightening torque	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
type of connectable conductor cross-sections • for auxiliary contacts — solid or stranded tightening torque • for main contacts with screw-type terminals	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 0.8 1.2 N·m
type of connectable conductor cross-sections • for auxiliary contacts — solid or stranded tightening torque • for main contacts with screw-type terminals • for auxiliary contacts with screw-type terminals	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
type of connectable conductor cross-sections • for auxiliary contacts — solid or stranded tightening torque • for main contacts with screw-type terminals • for auxiliary contacts with screw-type terminals size of the screwdriver tip	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 0.8 1.2 N·m 0.8 1.2 N·m
type of connectable conductor cross-sections • for auxiliary contacts — solid or stranded tightening torque • for main contacts with screw-type terminals • for auxiliary contacts with screw-type terminals	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 0.8 1.2 N·m 0.8 1.2 N·m
type of connectable conductor cross-sections • for auxiliary contacts — solid or stranded tightening torque • for main contacts with screw-type terminals • for auxiliary contacts with screw-type terminals size of the screwdriver tip design of the thread of the connection screw • for main contacts	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 0.8 1.2 N·m 0.8 1.2 N·m Pozidriv size 2
type of connectable conductor cross-sections • for auxiliary contacts — solid or stranded tightening torque • for main contacts with screw-type terminals • for auxiliary contacts with screw-type terminals size of the screwdriver tip design of the thread of the connection screw	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 0.8 1.2 N·m 0.8 1.2 N·m Pozidriv size 2
type of connectable conductor cross-sections • for auxiliary contacts — solid or stranded tightening torque • for main contacts with screw-type terminals • for auxiliary contacts with screw-type terminals size of the screwdriver tip design of the thread of the connection screw • for main contacts Safety related data B10 value	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 0.8 1.2 N·m 0.8 1.2 N·m Pozidriv size 2
type of connectable conductor cross-sections • for auxiliary contacts — solid or stranded tightening torque • for main contacts with screw-type terminals • for auxiliary contacts with screw-type terminals size of the screwdriver tip design of the thread of the connection screw • for main contacts Safety related data	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 0.8 1.2 N·m 0.8 1.2 N·m Pozidriv size 2 M3
type of connectable conductor cross-sections • for auxiliary contacts — solid or stranded tightening torque • for main contacts with screw-type terminals • for auxiliary contacts with screw-type terminals size of the screwdriver tip design of the thread of the connection screw • for main contacts Safety related data B10 value • with high demand rate according to SN 31920	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 0.8 1.2 N·m 0.8 1.2 N·m Pozidriv size 2 M3
type of connectable conductor cross-sections	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 0.8 1.2 N·m 0.8 1.2 N·m Pozidriv size 2 M3 5 000
type of connectable conductor cross-sections • for auxiliary contacts — solid or stranded tightening torque • for main contacts with screw-type terminals • for auxiliary contacts with screw-type terminals size of the screwdriver tip design of the thread of the connection screw • for main contacts Safety related data B10 value • with high demand rate according to SN 31920 proportion of dangerous failures	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 0.8 1.2 N·m 0.8 1.2 N·m Pozidriv size 2 M3 5 000
type of connectable conductor cross-sections • for auxiliary contacts — solid or stranded tightening torque • for main contacts with screw-type terminals • for auxiliary contacts with screw-type terminals size of the screwdriver tip design of the thread of the connection screw • for main contacts Safety related data B10 value • with high demand rate according to SN 31920 proportion of dangerous failures • with low demand rate according to SN 31920 • with high demand rate according to SN 31920 failure rate [FIT]	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 0.8 1.2 N·m 0.8 1.2 N·m Pozidriv size 2 M3 5 000 50 % 50 %
type of connectable conductor cross-sections • for auxiliary contacts — solid or stranded tightening torque • for main contacts with screw-type terminals • for auxiliary contacts with screw-type terminals size of the screwdriver tip design of the thread of the connection screw • for main contacts Safety related data B10 value • with high demand rate according to SN 31920 proportion of dangerous failures • with low demand rate according to SN 31920 • with high demand rate according to SN 31920 failure rate [FIT] • with low demand rate according to SN 31920	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 0.8 1.2 N·m 0.8 1.2 N·m Pozidriv size 2 M3 5 000
type of connectable conductor cross-sections • for auxiliary contacts — solid or stranded tightening torque • for main contacts with screw-type terminals • for auxiliary contacts with screw-type terminals size of the screwdriver tip design of the thread of the connection screw • for main contacts Safety related data B10 value • with high demand rate according to SN 31920 proportion of dangerous failures • with low demand rate according to SN 31920 • with high demand rate according to SN 31920 failure rate [FIT] • with low demand rate according to SN 31920 protection class IP on the front according to IEC 60529	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 0.8 1.2 N·m 0.8 1.2 N·m Pozidriv size 2 M3 5 000 50 % 50 % 50 FIT IP20
type of connectable conductor cross-sections • for auxiliary contacts — solid or stranded tightening torque • for main contacts with screw-type terminals • for auxiliary contacts with screw-type terminals size of the screwdriver tip design of the thread of the connection screw • for main contacts Safety related data B10 value • with high demand rate according to SN 31920 proportion of dangerous failures • with low demand rate according to SN 31920 • with high demand rate according to SN 31920 failure rate [FIT] • with low demand rate according to SN 31920	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 0.8 1.2 N·m 0.8 1.2 N·m Pozidriv size 2 M3 5 000 50 % 50 % 50 %
type of connectable conductor cross-sections • for auxiliary contacts — solid or stranded tightening torque • for main contacts with screw-type terminals • for auxiliary contacts with screw-type terminals size of the screwdriver tip design of the thread of the connection screw • for main contacts Safety related data B10 value • with high demand rate according to SN 31920 proportion of dangerous failures • with low demand rate according to SN 31920 • with high demand rate according to SN 31920 failure rate [FIT] • with low demand rate according to SN 31920 protection class IP on the front according to IEC 60529 touch protection for switching status	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 0.8 1.2 N·m 0.8 1.2 N·m Pozidriv size 2 M3 5 000 50 % 50 % 50 FIT IP20 finger-safe, for vertical contact from the front
type of connectable conductor cross-sections • for auxiliary contacts — solid or stranded tightening torque • for main contacts with screw-type terminals • for auxiliary contacts with screw-type terminals size of the screwdriver tip design of the thread of the connection screw • for main contacts Safety related data B10 value • with high demand rate according to SN 31920 proportion of dangerous failures • with low demand rate according to SN 31920 • with high demand rate according to SN 31920 failure rate [FIT] • with low demand rate according to SN 31920 protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 0.8 1.2 N·m 0.8 1.2 N·m Pozidriv size 2 M3 5 000 50 % 50 % 50 FIT IP20 finger-safe, for vertical contact from the front













Declaration of Conformity

Test Certificates

Marine / Shipping





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

Type Test Certificates/Test Report





Marine / Shipping









Miscellaneous

other

other

Railway

Confirmation



Special Test Certificate

Siemens has decided to exit the Russian market (see here).

https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business

Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

Information on the packaging

https://support.industry.siemens.com/cs/ww/en/view/109813875

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=3RV1011-1CA10

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV1011-1CA10

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

https://support.industry.siemens.com/cs/ww/en/ps/3RV1011-1CA10

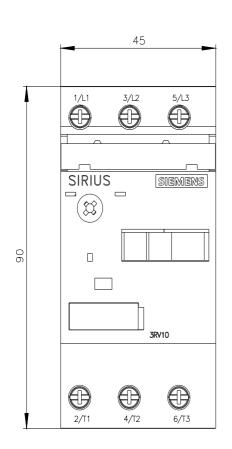
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

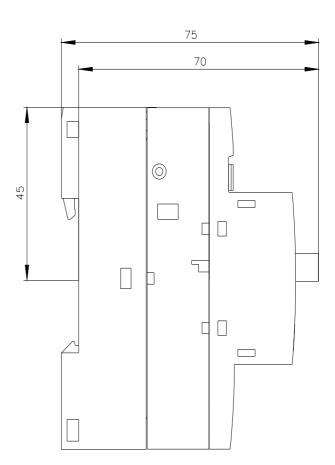
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV1011-1CA10&lang=en

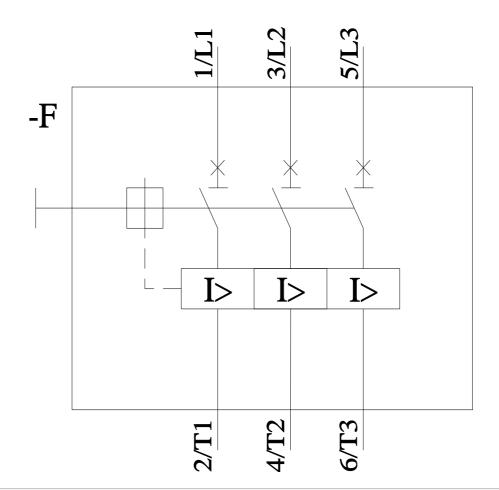
Characteristic: Tripping characteristics, I2t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RV1011-1CA10/char

Further characteristics (e.g. electrical endurance, switching frequency)
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV1011-1CA10&objecttype=14&gridview=view1







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