## SIEMENS

## Data sheet

## 3RT2015-1HB42



power contactor, AC-3e/AC-3, 7 A, 3 kW / 400 V, 3-pole, 24 V DC, 0.7-1.25\* Us, auxiliary contacts: 1 NC, screw terminal, size: S00, suitable for PLC outputs, not expandable with auxiliary switch

product brand name	SIRIUS			
product designation	Coupling contactor			
product type designation	3RT2			
General technical data	0012			
size of contactor	S00			
product extension				
function module for communication	No			
auxiliary switch	No			
power loss [W] for rated value of the current				
at AC in hot operating state	0.6 W			
at AC in hot operating state per pole	0.2 W			
without load current share typical	2.8 W			
type of calculation of power loss depending on pole	quadratic			
insulation voltage	4			
of main circuit with degree of pollution 3 rated value	690 V			
<ul> <li>of auxiliary circuit with degree of pollution 3 rated value</li> </ul>	690 V			
surge voltage resistance				
of main circuit rated value	6 kV			
<ul> <li>of auxiliary circuit rated value</li> </ul>	6 kV			
maximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1	400 V			
shock resistance at rectangular impulse				
• at DC	6,7g / 5 ms, 4,2g / 10 ms			
shock resistance with sine pulse				
• at DC	10,5g / 5 ms, 6,6g / 10 ms			
mechanical service life (operating cycles)				
<ul> <li>of contactor typical</li> </ul>	30 000 000			
<ul> <li>of the contactor with added electronically optimized auxiliary switch block typical</li> </ul>	5 000 000			
reference code according to IEC 81346-2	Q			
Substance Prohibitance (Date)				
Weight	0.297 kg			
Ambient conditions				
installation altitude at height above sea level maximum	2 000 m			
ambient temperature				
during operation	-25 +60 °C			
during storage	-55 +80 °C			
relative humidity minimum	10 %			
relative humidity at 55 °C according to IEC 60068-2-30 maximum	95 %			
Environmental footprint				

Environmental Product Declaration (EDD)	Vac
Environmental Product Declaration(EPD)	Yes
Global Warming Potential [CO2 eq] total Global Warming Potential [CO2 eq] during manufacturing	153 kg 1.42 kg
Global Warming Potential [CO2 eq] during manufacturing Global Warming Potential [CO2 eq] during operation	1.42 kg
Global Warming Potential [CO2 eq] after end of life	-0.305 kg
Main circuit	-0.000 kg
number of poles for main current circuit	3
number of NO contacts for main contacts	3
operating voltage	5
at AC-3 rated value maximum	690 V
at AC-3e rated value maximum	690 V
operational current	
at AC-1 at 400 V at ambient temperature 40 °C rated value	18 A
• at AC-1	
— up to 690 V at ambient temperature 40 °C rated value	18 A
— up to 690 V at ambient temperature 60 °C rated value	16 A
• at AC-3	
— at 400 V rated value	7 A
— at 500 V rated value	6 A
— at 690 V rated value	4.9 A
• at AC-3e	
— at 400 V rated value	7 A
— at 500 V rated value	6 A
— at 690 V rated value	4.9 A
• at AC-4 at 400 V rated value	6.5 A
at AC-5a up to 690 V rated value	15.8 A
• at AC-5b up to 400 V rated value	5.8 A
• at AC-6a	4.4
<ul> <li>— up to 230 V for current peak value n=20 rated value</li> <li>— up to 400 V for current peak value n=20 rated value</li> </ul>	4 A 4 A
— up to 500 V for current peak value n=20 rated value	3.8 A
— up to 690 V for current peak value n=20 rated value	3.6 A
• at AC-6a	0.071
— up to 230 V for current peak value n=30 rated value	2.7 A
— up to 400 V for current peak value n=30 rated value	2.7 A
— up to 500 V for current peak value n=30 rated value	2.5 A
	2.4 A
minimum cross-section in main circuit at maximum AC-1 rated value	2.5 mm <sup>2</sup>
operational current for approx. 200000 operating cycles at AC-4	
• at 400 V rated value	2.6 A
• at 690 V rated value	1.8 A
operational current	
<ul> <li>at 1 current path at DC-1</li> </ul>	
— at 24 V rated value	15 A
— at 60 V rated value	15 A
— at 110 V rated value	1.5 A
— at 220 V rated value	0.6 A
— at 440 V rated value	0.42 A
— at 600 V rated value	0.42 A
with 2 current paths in series at DC-1	
— at 24 V rated value	15 A
— at 60 V rated value	15 A
— at 110 V rated value	8.4 A
— at 220 V rated value	1.2 A
- at 440 V rated value	0.6 A
— at 600 V rated value	0.5 A
<ul> <li>with 3 current paths in series at DC-1</li> </ul>	

— at 24 V rated value	15 A			
— at 60 V rated value	15 A			
— at 110 V rated value	15 A			
— at 220 V rated value	15 A			
— at 440 V rated value	0.9 A			
— at 600 V rated value	0.7 A			
<ul> <li>at 1 current path at DC-3 at DC-5</li> </ul>				
— at 24 V rated value	15 A			
— at 60 V rated value	0.35 A			
<ul> <li>with 2 current paths in series at DC-3 at DC-5</li> </ul>				
— at 24 V rated value	15 A			
— at 60 V rated value	3.5 A			
— at 110 V rated value	0.25 A			
<ul> <li>with 3 current paths in series at DC-3 at DC-5</li> </ul>				
— at 24 V rated value	15 A			
— at 60 V rated value	15 A			
— at 110 V rated value	15 A			
— at 220 V rated value	1.2 A			
— at 440 V rated value	0.14 A			
— at 600 V rated value	0.14 A			
operating power				
• at AC-3				
- at 230 V rated value	1.5 kW			
— at 200 V rated value	3 kW			
	3 kW			
— at 500 V rated value				
— at 690 V rated value • at AC-3e	4 kW			
— at 230 V rated value	1.5 kW			
— at 400 V rated value	3 kW			
— at 500 V rated value	3 kW			
— at 690 V rated value	4 kW			
operating power for approx. 200000 operating cycles at AC- 4				
at 400 V rated value	1.15 kW			
at 690 V rated value	1.15 kW			
operating apparent power at AC-6a				
<ul><li>operating apparent power at AC-6a</li><li>up to 230 V for current peak value n=20 rated value</li></ul>	1.5 kVA			
<ul> <li>operating apparent power at AC-6a</li> <li>up to 230 V for current peak value n=20 rated value</li> <li>up to 400 V for current peak value n=20 rated value</li> </ul>	1.5 kVA 2.7 kVA			
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type of voltage of the control supply voltage	DC			
control supply voltage at DC rated value	24 V			
operating range factor control supply voltage rated value of magnet coil at DC				
<ul> <li>initial value</li> </ul>	0.7			
• full-scale value	1.25			
closing power of magnet coil at DC	2.8 W			
holding power of magnet coil at DC	2.8 W			
closing delay				
• at DC	25 130 ms			
opening delay				
• at DC	7 20 ms			
arcing time	10 15 ms			
control version of the switch operating mechanism	Standard A1 - A2			
Auxiliary circuit				
number of NC contacts for auxiliary contacts instantaneous contact	1			
operational current at AC-12 maximum	10 A			
operational current at AC-15				
● at 230 V rated value	10 A			
• at 400 V rated value	3 A			
• at 500 V rated value	2 A			
• at 690 V rated value	1A			
operational current at DC-12				
at 24 V rated value	10 A			
at 48 V rated value	6 A			
at 60 V rated value	6 A			
at 110 V rated value	3 A			
at 125 V rated value	2 A			
at 220 V rated value	1A			
at 600 V rated value	0.15 A			
operational current at DC-13				
at 24 V rated value	10 A			
at 48 V rated value	2 A			
at 60 V rated value	2 A			
at 110 V rated value	1A			
at 125 V rated value	0.9 A			
at 220 V rated value	0.3 A			
at 600 V rated value	0.1 A			
contact reliability of auxiliary contacts	1 faulty switching per 100 million (17 V, 1 mA)			
UL/CSA ratings				
full-load current (FLA) for 3-phase AC motor	484			
<ul> <li>at 480 V rated value</li> <li>at 600 V rated value</li> </ul>	4.8 A 6.1 A			
yielded mechanical performance [hp]				
for single-phase AC motor				
tor single-phase AC motor    at 110/120 V rated value	0.25 hp			
— at 110/120 V fated value — at 230 V rated value				
	0.75 hp			
for 3-phase AC motor     at 200/208 V rated value	1.5 hp			
- at 200/208 V rated value	1.5 hp			
- at 220/230 V rated value	2 hp			
- at 460/480 V rated value	3 hp			
- at 575/600 V rated value	5 hp			
contact rating of auxiliary contacts according to UL	A600 / Q600			
Short-circuit protection				
design of the fuse link				
for short-circuit protection of the main circuit				
— with type of coordination 1 required	gG: 35A (690V,100kA), aM: 20A (690V,100kA), BS88: 35A (415V,80kA)			
— with type of assignment 2 required	gG: 20A (690V,100kA), aM: 16A (690V, 100kA), BS88: 20A (415V, 80kA)			
<ul> <li>for short-circuit protection of the auxiliary switch required</li> </ul>	gG: 10 A (500 V, 1 kA)			
Installation/ mounting/ dimensions				

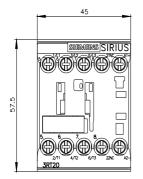
mounting position	+/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface			
fastening method	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715			
height	58 mm			
width	45 mm			
depth	73 mm			
required spacing				
with side-by-side mounting				
— forwards	10 mm			
— upwards	10 mm			
— downwards	10 mm			
— at the side	0 mm			
<ul> <li>for grounded parts</li> </ul>				
— forwards	10 mm			
— upwards	10 mm			
— at the side	6 mm			
— downwards	10 mm			
• for live parts				
— forwards	10 mm			
— upwards	10 mm			
— downwards	10 mm			
— at the side	6 mm			
Connections/ Terminals				
type of electrical connection				
for main current circuit	screw-type terminals			
<ul> <li>for auxiliary and control circuit</li> </ul>	screw-type terminals			
<ul> <li>at contactor for auxiliary contacts</li> </ul>	Screw-type terminals			
of magnet coil	Screw-type terminals			
type of connectable conductor cross-sections				
for main contacts				
— solid	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm²			
— solid or stranded	2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²), 2x 4 mm²			
<ul> <li>finely stranded with core end processing</li> </ul>	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)			
<ul> <li>for AWG cables for main contacts</li> </ul>	2x (20 16), 2x (18 14), 2x 12			
connectable conductor cross-section for main contacts				
• solid	0.5 4 mm²			
• stranded	0.5 4 mm²			
<ul> <li>finely stranded with core end processing</li> </ul>	0.5 2.5 mm²			
connectable conductor cross-section for auxiliary contacts				
solid or stranded	0.5 4 mm <sup>2</sup>			
<ul> <li>finely stranded with core end processing</li> </ul>	0.5 2.5 mm²			
type of connectable conductor cross-sections				
<ul> <li>for auxiliary contacts</li> </ul>				
— solid or stranded	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm²			
<ul> <li>finely stranded with core end processing</li> </ul>	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)			
for AWG cables for auxiliary contacts	2x (20 16), 2x (18 14), 2x 12			
AWG number as coded connectable conductor cross section				
for main contacts	20 12			
<ul> <li>for main contacts</li> <li>for auxiliary contacts</li> </ul>	20 12 20 12			
Safety related data	LV 12			
product function				
mirror contact according to IEC 60947-4-1	Yes			
<ul> <li>minor contact according to IEC 60947-4-1</li> <li>positively driven operation according to IEC 60947-5-1</li> </ul>	No			
suitable for safety function	Yes			
suitability for use safety-related switching OFF	Yes			
suitability for use safety-related switching OFF service life maximum	20 a			
test wear-related service life necessary	Yes			
proportion of dangerous failures				
with low demand rate according to SN 31920	40 %			
with high demand rate according to SN 31920	73 %			
- with high demand rate according to SN 31920	10.70			

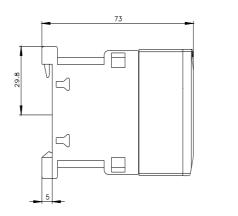
B10 value with high demand rate according to SN 31920       1 000 000         failure rate [FIT] with low demand rate according to SN 31920       100 FIT         ISO 13849       3         device type according to ISO 13849-1       3         overdimensioning according to ISO 13849-2 necessary       Yes         IEC 61508       safety device type according to IEC 61508-2       Type A         Electrical Safety       protection on the front according to IEC 60529       IP20         touch protection on the front according to IEC 60529       IP20         touch approvals Certificates       General Product Approval       Confirmation         General Product Approval       EMV       Functional Safety       Marine / Shippin         Figure       EC       Special Test Certificates       Marine / Shippin         Marine / Shippin       Ifficate       Special Test Certificates       Type Iest Certificates         Marine / Shippin       Ifficate       Special Test Certificates       Type Iest Certificates       Special Test Certificates       Ifficate Report       Miscelianeous         Marine / Shippin       Ifficate       Ifficate       Special Test Certificates       Ifficate Report       Ifficate       Ifficate       Ifficate       Ifficate       Ifficate       Ifficate       Ifficate       Ifficate       Iffi							
31920       IV	B10 value with high d	emand rate according to	SN 31920	1 000	000		
device type according to ISO 13849-1       3         overdimensioning according to ISO 13849-2 necessary       Yes         IEC 61508       Yes         satety device type according to IEC 61508-2       Type A         Electrical Safety       IP20         protection class IP on the front according to IEC 60529       IP20         touch protection on the front according to IEC 60529       IP20         General Product Approval       General Product Approval         Efficience       Functional Safety         Ifficiate       Ifficiate         Ifficiate	failure rate [FIT] with low demand rate according to SN		100 F	ΊΤ			
overdimensioning according to IBO 13849-2 necessary     Yes       IEC 61508     safety device type according to IEC 61508-2     Type A       Electrical Safety     protection class IP on the front according to IEC 60529     IP20       touch protection on the front according to IEC 60529     IP20       touch protection on the front according to IEC 60529     IP20       ceneral Product Approval     Confirmation       General Product Approval     EMV     Functional Safety       Efficience     Functional Safety       proval     EMV     Functional Safety       Marine / Shipping     EMV     Functional Safey       Marine / Shipping     EMI     Special Test Certificates       Marine / Shipping     Other       Image: Safe / Shipping     Image: Special Test Certificates       Marine / Shipping     Image: Special Test Certificates	ISO 13849						
IEC 61508         safety device type according to IEC 61508-2         Electrical Safety         protection class IP on the front according to IEC 60529         IP20         touch protection on the front according to IEC 60529         General Product Approval         Effective         Effective         General Product Approval         Effective         Effective         IFF         Effective	device type according	g to ISO 13849-1		3			
safety device type according to IEC 61508-2 Type A Electrical Safety protection class IP on the front according to IEC 60529 IP20 touch protection on the front according to IEC 60529 IP20 fouch protection on the front according to IEC 60529 IP20 fouch protection on the front according to IEC 60529 General Product Approval  General Product Ap- proval  EMV Functional Safety  Type Examination Cer- tificate  Type Test Certific- ate Type T	overdimensioning acc	cording to ISO 13849-2 n	ecessary	Yes			
Electrical Safety       protection class IP on the front according to IEC 60529       IP20       finger-safe, for vertical contact from the front         Approvals Certificates       General Product Approval       Confirmation       KC         General Product Ap- proval       EMV       Functional Safety       Test Certificates       Marine / Shippin         Image: Subscription of the front according to IEC 60529       Type Examination Cer- tificate       Special Test Certific- ate       Type Test Certific- ates/Test Report       Marine / Shippin         Image: Subscription of the front score of the formation of the format	IEC 61508						
protection class IP on the front according to IEC 60529       IP20         touch protection on the front according to IEC 60529       Inger-safe, for vertical contact from the front         Approvals Certificates       General Product Approval       Confirmation         General Product Approval       EMV       Functional Saftey       Test Certificates         Marine / Shipping       Image: Safe for vertical contact from the front according to IEC 60529       Marine / Shipping         Marine / Shipping       EMV       Functional Saftey       Test Certificates       Type Test Certificates         Marine / Shipping       Image: Safe for vertical contact from the front according to IEC 60529       Image: Safe for vertical contact from the front         Marine / Shipping       Image: Safe for vertical contact from the front       Image: Safe for vertical contact from the front         Image: Safe for vertical contact from the front       Image: Safe for vertical contact from the front       Image: Safe for vertical contact from the front         Image: Safe for vertical contact from the front       Image: Safe for vertical contact from the front       Image: Safe for vertical contact from the front         Image: Safe for vertical contact from the front       Image: Safe for vertical contact from the front       Image: Safe for vertical contact from the front         Image: Safe for vertical contact	safety device type acc	cording to IEC 61508-2		Туре	A		
touch protection on the front according to IEC 60529       Inger-safe, for vertical contact from the front         Approvals Certificates       General Product Approval       Image - safe, for vertical contact from the front         General Product Approval       Image - safe, for vertical contact from the front       KC         General Product Approval       Image - safe, for vertical contact from the front       KC         General Product Approval       Image - safe, for vertical contact from the front       KC         General Product Approval       EMV       Functional Saftey       Test Certificates       Marine / Shipping         Image - safe, for vertical contact from the front       Image - safe, for vertical contact from the front       Image - safe, for vertical contact from the front         General Product Approval       EMV       Functional Saftey       Test Certificates       Marine / Shipping         Image - Second -	Electrical Safety						
Approvals Certificates       Confirmation       KC         General Product Approval       KC       KC         General Product Approval       EMV       Functional Saftey       Test Certificates       Marine / Shipping         General Product Approval       EMV       Functional Saftey       Test Certificates       Marine / Shipping         Marine / Shipping       Ivpe Examination Certificate       Special Test Certificate       Type Test Certificate       Ivpe Test Certificate         Marine / Shipping       Ivpe Examination Certificate       Special Test Certificate       Type Test Certificate       Ivpe Test Certificate         Marine / Shipping       Ivpe Examination Certificate       Special Test Certificate       Type Test Certificate       Ivpe Test Certificate       Ivpe Test Certificate         Marine / Shipping       Ivpe Test Certificate       Ivpe Test Certificate </td <td>protection class IP or</td> <td>the front according to I</td> <td>EC 60529</td> <td>IP20</td> <td></td> <td></td> <td></td>	protection class IP or	the front according to I	EC 60529	IP20			
General Product Approval       Confirmation       KC         General Product Appoon       EMV       Functional Saffey       Test Certificates       Marine / Shipping         General Product Apport       EMV       Functional Saffey       Test Certificates       Marine / Shipping         Image: Figure Shipping       Image: Figure Shipping       Image: Figure Shipping       Image: Figure Shipping       Other         Image: Figure Shipping	touch protection on th	he front according to IEC	C 60529	finger	-safe, for vertical contact	from the front	
Confirmation Confirmation   General Product Ap- proval EMV Functional Saftey Test Certificates Marine / Shipping   EFFE Image: Special Test Certificates Type Test Certificates Image: Special Test Certificates Image: Special Test Certificates   Marine / Shipping Image: Special Test Certificates Image: Special Test Certificates Image: Special Test Certificates Image: Special Test Certificates   Marine / Shipping Image: Special Test Certificates Image: Special Test Certificates Image: Special Test Certificates Image: Special Test Certificates   Marine / Shipping Image: Special Test Certificates Image: Special Test Certificates Image: Special Test Certificates Image: Special Test Certificates   Marine / Shipping Image: Special Test Certificates Image: Special Test Certificates Image: Special Test Certificates Image: Special Test Certificates   Image: Special Test Certificates Image: Special Test Certificates Image: Special Test Certificates Image: Special Test Certificates Image: Special Test Certificates   Image: Special Test Certificates Image: Special Test Certificates Image: Special Test Certificates Image: Special Test Certificates Image: Special Test Certificates   Image: Special Test Certificates Image: Special Test Certificates Image: Special Test Certificates Image: Special Test Certificates Image: Special Test Certificates   Image: Special Test Certificates Image: Special Test Certificates Image: Special Test Certificates Image: Special Test Certificates <	pprovals Certificates						
General Product Approval       EMV       Functional Saftey       Test Certificates       Marine / Shipping         EFFE       EMV       Functional Saftey       Test Certificates       Type Test Certificates       Marine / Shipping         Marine / Shipping       EMV       Functional Saftey       Special Test Certificates       Type Test Certificates       Image: Ce	General Product App	roval					
proval       Functional safety       rest certificate       Type Test Certificate <thtype certificate<="" test="" th="">       Type</thtype>	CE EG-Konf.	UK CA			<u>Confirmation</u>	(U) u	KC
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Miscellaneous PRS PRS RINA RMRS	EHC	RCM					ABS
BUREAU VERITAS	Marine / Shipping						other
other Railway Dangerous goods Environment	BUREAU VERITAS		PRS		RINA	RMRS	<u>Miscellaneous</u>
	other	Railway	Dangerous goods		Environment		
Confirmation Special Test Certific- ate	<u>Confirmation</u>		Transport Information		EPD		
Further information Information on the packaging <a href="https://support.industry.siemens.com/cs/ww/en/view/109813875">https://support.industry.siemens.com/cs/ww/en/view/109813875</a> Information- and Downloadcenter (Catalogs, Brochures,)	Information on the pa https://support.industry Information- and Dow	.siemens.com/cs/ww/en/vi nloadcenter (Catalogs, E					
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Service&Support (Manuals, Certificates, Characteristics, FAQs,) <u>https://support.industry.siemens.com/cs/ww/en/ps/3RT2015-1HB42</u> Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,)							

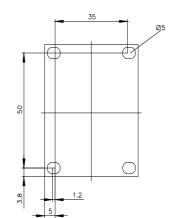
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RT2015-1HB42&lang=en

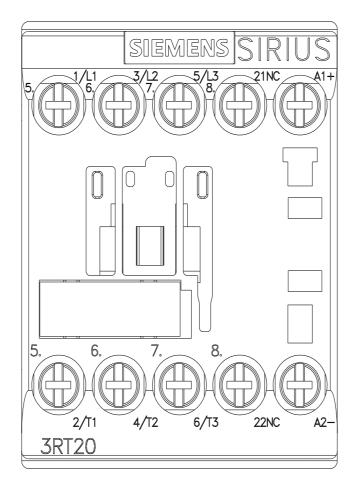
Characteristic: Tripping characteristics, I<sup>2</sup>t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RT2015-1HB42/char

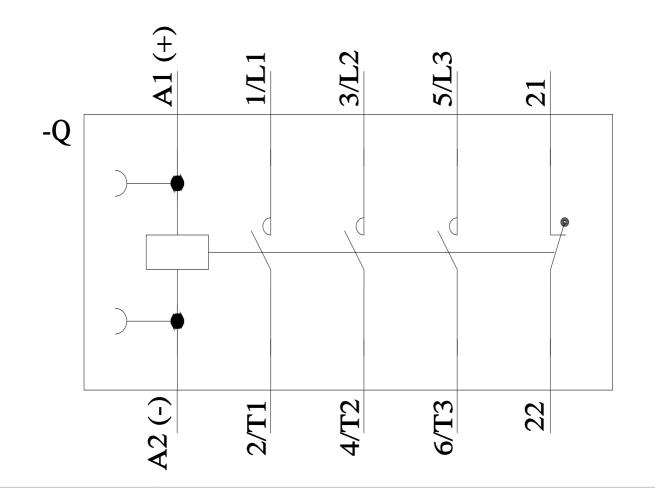
Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2015-1HB42&objecttype=14&gridview=view1











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