# SIEMENS

# **Product data sheet**

# 3RV2011-1HA25



CIRCUIT-BREAKER SZ S00, FOR MOTOR PROTECTION, CLASS 10, A-RELEASE 5.5...8A, N-RELEASE 104A, SPRING-L. CONNECTION, STANDARD SW. CAPACITY W. TRANSVERSE AUX. SWITCH 1NO+1NC

General technical data:		
Product brand name		SIRIUS
product designation		3RV2 circuit breaker
Size of the circuit-breaker		S00
Trip class		CLASS 10
Protection class IP / on the front		IP20
Degree of pollution		3
Installation altitude / at a height over sea level / maximum	m	2,000
Ambient temperature		
during storage	°C	-50 80
during operating	°C	-20 60
during transport	°C	-50 80
Resistance against shock		25g / 11 ms
Impulse voltage resistance / rated value	kV	6
Insulation voltage / rated value	V	690
Active power loss / total / typical	W	7.3
Item designation		
<ul> <li>according to DIN 40719 extendable after IEC 204-2 / according to IEC 750</li> </ul>		F
according to DIN EN 61346-2		F

• of the main contacts / typical100,000Design of the auxiliary workin100,000Type of the driving mechanism / motor driveNoDesign of the operating mechanism / motor driveNoDesign of the operating mechanism / motor driveNoProduct functionYes• workinda protectionYes• workinda protectionNo• hanse disturbance recognitionYes• workinda protectionNo• underworking release mechanismNo• underworking release mechanismNo• underworking / protectionNo• underworking / protectionNo• underworking / art AC-3 (rated value / maximum)NoProduct droving / art AC-3 / at 400 V / rated valueAOperating durient / at AC-3 / at 400 V / rated valueA• at 400 V / rated valueW• drover / at AC-3 / according to EC 60947-62-1Ith• drover / at AC-3 / according to EC 60947-62-1Ith• drover / at AC-3 / according to EC 60947-62-1Ith• drover / at AC-3 / according to EC 60947-62-1Ith• drover / at AC-3 / according to EC 60947-62-1Ith• drover / at AC-3 / according to EC 60947-62-1Ith• drover / at AC-3 / according to EC 60947-62-1Ith• drover / at AC-3 / according to EC 60947-62-1Ith• drover / at AC-3 / according to EC 60947-62-1Ith <t< th=""><th>Mechanical operating cycles as operating time</th><th>-</th><th></th></t<>	Mechanical operating cycles as operating time	-	
Design of the auxiliary switchIdentifyType of the driving mechanism / motor driveNoDesign of the operating mechanismIdentifyProduct functionYes• overload protectionYes• phase disturbance recognitionYesProduct componentYes• undirevoltage release mechanismNo• indirevoltage release mechanismNo• orderout settension / optional / motor driveNoMain circuitNoNumber of poles / for main current circuitNoOperating current / at AC-3 / at 400 V / rated valueA• at 400 V / rated valueNo• at 400 V / rated valueNo• at 400 V / rated valueNo• at 600 V / rated valueNo• at 400 V / rated valueNo• at at 00 V / rated valueNo• at ong or potention / at AC-3 / according to IEC 60947-621Ith• at rated valueNo• of the non-delayed short-circuit release	of the main contacts / typical		100,000
Type of the driving mechanism / motor drive         No           Design of the operating mechanism         selector switch           Product function         Yes           • verifoad protection         Yes           • phase disturbance recognition         Yes           Product component         Yes           • studingy switch         Yes           • undervoltage release mechanism         No           • trip indicator         No           Product extension / optional / motor drive         No           Main circuit:         No           Number of poles / for main current circuit         3           Operating outrage / at AC-3 / at 400 V / rated value         A           • at 400 V / rated value         W           • of the on	<ul> <li>of the auxiliary contacts / typical</li> </ul>		100,000
Design of the operating mechanism         selector switch           Product function         Yes           • overload protection         Yes           • phase disturbance recognition         Yes           Product component         Yes           • auxiliary switch         Yes           • undervoltage release mechanism         No           • tip indicator         No           Product extension / optional / motor drive         No           Maln circuit:         3           Number of poles / for main current circuit         3           Operating voltage / at AC-3 / rated value / maximum         V           Service power / at AC-3         W           • at 400 V / rated value         A           • at 400 V / rated value         W           • at 400 V / rated value	Design of the auxiliary switch	-	transverse
Product function         Yes           • overload protection         Yes           • phase disturbance recognition         Yes           Product component         Yes           • undervoltage release mechanism         No           • trip indicator         No           Product stension / optional / motor drive         No           Main circuit:         No           Number of poles / for main current circuit         3           Operating voltage / at AC-3 / rated value / maximum         V         690           Operating voltage / at AC-3 / at 400 V / rated value         A         6.5           Service power / at AC-3         W         3.000           • at 400 V / rated value         W         3.000           • at 400 V / rated value         W         5.500           • at 400 V / rated value         W         5.500           • at 400 V / rated value         W         5.500           • at 400 V / rated value         W         5.500           • at 400 V / rated value         W         5.500           • at 400 V / rated value         W         5.500           • at 400 V / rated value         W         5.500           • at 400 V / rated value         W         5.58	Type of the driving mechanism / motor drive	-	No
• overlad protectionYes• phase disturbance recognitionYesProduct componentYes• audilary switchNo• underroltage release mechanismNo• trip indicatorNoProduct extension / optional / motor driveNoProduct extension / optional / motor driveNoOperating current / at Ac-3 / rated value / maximumV600 / rated value / audie / maximumV900 / rated valueA001 / rated valueW900 / rated valueNo901 / rated valueW902 / rated valueW903 / rated valueW904 / rated valueW905 / rated valueW905 / rated valueW906 / rated valueW908 / rated valueW909 / rated valueW908 / rated valueW909 / rated valueW908 / rated valueW909 / rated valueW909 / rated valueW900 / rated valueInfo900 / rated valueInfo900 / rated valueSo<	Design of the operating mechanism	-	selector switch
• phase distribute recognitionImage: Second Sec	Product function	-	
Product component     Image: Component       • auxiliary switch     Yes       • undervoltage release mechanism     No       • trip indicator     No       Product extension / optional / motor drive     No       Main circuit:     No       Number of poles / for main current circuit     3       Operating voltage / at AC-3 / rated value / maximum     V     690       Operating current / at AC-3 / rated value / maximum     V     690       Operating current / at AC-3 / rated value     A     6.5       Service power / at AC-3	overload protection		Yes
• auxiliary switchYes• undervoltage release mechanismNo• trip indicatorNoProduct extension / optional / motor driveNoProduct extension / optional / motor driveNoProduct extension / optional / motor driveNoMumber of poles / for main current circuit3Operating voltage / at AC-3 / rated value / maximumV990Operating current / at AC-3 / at 400 V / rated valueA6.5Service power / at AC-3V3,000• at 400 V / rated valueW3,000• of the non-deleyed short-circuit releaseA5,5 8Service power / at AC-3 / at 230 V / rated valueW1,	phase disturbance recognition		Yes
• undervoltage release mechanismNo• trip indicatorNoProduct extension / optional / motor driveNoMain circuit:NoNumber of poles / for main current circuit3Operating voltage / at AC-3 / rated value / maximumV690Operating current / at AC-3 / rated value / maximumVservice power / at AC-3W• at 400 V / rated valueA• at 400 V / rated valueW• of the non-delayed short-circuit releaseA• of the non-delayed short-circuit releaseA• of the current-dependent overload releaseA• of the current / rated valueW• of the current / rated valueW• of the current / rated valueM• of the current / rated valueA• of the current / rated valueA	Product component	-	
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Product extension / optional / motor drive       No         Main circuit:       3         Number of poles / for main current circuit       3         Operating voltage / at AC-3 / rated value / maximum       V       690         Operating current / at AC-3 / at 400 V / rated value       A       6.5         Service power / at AC-3       -       -         • at 400 V / rated value       W       3,000         • at 400 V / rated value       W       4,000         • at 600 V / rated value       W       4,000         • at 600 V / rated value       W       5,500         Frequency of operation / at AC-3 / according to IEC 60947-6-2 / at 690 V / rated value       Top and bottom         Arrangement of electrical connectors / for main current circuit       Top and bottom         Adjustable response current       -       -         • of the non-delayed short-circuit release       A       104 104         • of the current-dependent overload release       A       5.5 8         Service power / at AC-3 / at 230 V / rated value       W       1.500         Continuous current / rated value       A       8         Auxiliary circuit:       Yes       1         Product extension / auxiliary switch       Yes       1         Nu	undervoltage release mechanism		No
Main circuit:       3         Operating voltage / at AC-3 / rated value / maximum       V       690         Operating current / at AC-3 / rated value / maximum       V       690         Operating current / at AC-3 / at 400 V / rated value       A       6.5         Service power / at AC-3       -       -         • at 400 V / rated value       W       3.000         • at 400 V / rated value       W       3.000         • at 600 V / rated value       W       4.000         • at 600 V / rated value       W       5.500         Frequency of operation / at AC-3 / according to IEC 60947-6-2 / maximum       1/h         Arrangement of electrical connectors / for main current circuit       Top and bottom         Adjustable response current       -       -         • of the non-delayed short-circuit release       A       104 104         • of the current-dependent overload release       A       5.5 8         Service power / at AC-3 / at 230 V / rated value       W       1.500         Continuous current / rated value       Yes       1         Auxiliary circuit:       Yes       1         Product extension / auxiliary contacts / instantaneous switching       1       1         Number of NO contacts / for auxiliary contacts / instantaneous swit	• trip indicator		No
Number of poles / for main current circuit3Operating voltage / at AC-3 / rated value / maximumV690Operating current / at AC-3 / at 400 V / rated valueA6.5Service power / at AC-3W3,000• at 400 V / rated valueW3,000• at 600 V / rated valueW4,000• at 600 V / rated valueW5,500Frequency of operation / at AC-3 / according to IEC 60947-6-2 / maximum1/h15Arrangement of electrical connectors / for main current circuitTop and bottomAdjustable response current • of the non-delayed short-circuit releaseA104 104• of the current-dependent overload releaseA8Service power / at AC-3 / at 230 V / rated valueW1,500Continuous current / rated valueW1,500Mumber of NC contacts / for auxiliary contacts / instantaneous switchingYesNumber of NC contacts / for auxiliary contacts / instantaneous switching1Number of NC contacts / for auxiliary contacts / instantaneous switching0Number of NC contacts / for auxiliary contacts / instantaneous switching0	Product extension / optional / motor drive		No
Operating voltage / at AC-3 / rated value / maximumV690Operating current / at AC-3 / at 400 V / rated valueA6.5Service power / at AC-3W3,000• at 400 V / rated valueW3,000• at 500 V / rated valueW4,000• at 690 V / rated valueW5,500Frequency of operation / at AC-3 / according to IEC 60947-6-2 / maximumTop and bottomArrangement of electrical connectors / for main current circuitTop and bottomAdjustable response currentV1,500• of the non-delayed short-circuit releaseA5.5 8Service power / at AC-3 / at 230 V / rated valueW1,500Continuous current / rated valueW1,500Arxillary circuit:YesProduct extension / auxillary switchYesNumber of NC contacts / for auxillary contacts / instantaneous switching1Number of NO contacts / for auxillary contacts / instantaneous switching0Operating current / of the auxillary contactsG	Main circuit:		
Operating current / at AC-3 / at 400 V / rated valueA6.5Service power / at AC-3W3,000• at 400 V / rated valueW3,000• at 500 V / rated valueW3,000• at 690 V / rated valueW5,500Frequency of operation / at AC-3 / according to IEC 60947-6-2 / maximum1/h15Arrangement of electrical connectors / for main current circuitTop and bottomAdjustable response currentITop and bottom• of the non-delayed short-circuit releaseA104 104• of the current-dependent overload releaseA5.5 8Service power / at AC-3 / at 230 V / rated valueW3.000Arxiliary circuit:YesProduct extension / auxiliary switchYesNumber of NC contacts / for auxiliary contacts / instantaneous switching1Number of change-over switches / for auxiliary contacts0Operating current / of the auxiliary contacts0	Number of poles / for main current circuit		3
Service power / at AC-3W• at 400 V / rated valueW• at 500 V / rated valueW• at 690 V / rated valueW• at 690 V / rated valueW• at 690 V / rated valueW5,500Frequency of operation / at AC-3 / according to IEC 60947-6-2 / maximum1/hArrangement of electrical connectors / for main current circuitTop and bottomAdjustable response currentImage: Content of the non-delayed short-circuit releaseA• of the non-delayed short-circuit releaseA104 104• of the current-dependent overload releaseA5.5 8Service power / at AC-3 / at 230 V / rated valueW1,500Continuous current / rated valueA8Auxiliary circuit:YesProduct extension / auxiliary contacts / instantaneous switching1Number of NC contacts / for auxiliary contacts / instantaneous switching1Number of NO contacts / for auxiliary contacts / instantaneous switching0Operating current / of the auxiliary contactsG	Operating voltage / at AC-3 / rated value / maximum	V	690
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• at 690 V / rated valueW5,500Frequency of operation / at AC-3 / according to IEC 60947-6-2 / maximum1/h15Arrangement of electrical connectors / for main current circuitTop and bottomAdjustable response currentTop and bottom• of the non-delayed short-circuit releaseA104 104• of the current-dependent overload releaseA5.5 8Service power / at AC-3 / at 230 V / rated valueW1,500Continuous current / rated valueW1,500Auxiliary circuit:YesProduct extension / auxiliary switchYesNumber of NC contacts / for auxiliary contacts / instantaneous switching1Number of change-over switches / for auxiliary contacts0Operating current / of the auxiliary contactsIOperating current / of the auxiliary contactsI	• at 400 V / rated value	W	3,000
Frequency of operation / at AC-3 / according to IEC 60947-6-2 / maximum1/h15Arrangement of electrical connectors / for main current circuitTop and bottomAdjustable response currentTop and bottom• of the non-delayed short-circuit releaseA104 104• of the current-dependent overload releaseA5.5 8Service power / at AC-3 / at 230 V / rated valueW1,500Continuous current / rated valueA8YesNumber of NC contacts / for auxiliary contacts / instantaneous switchingNumber of NO contacts / for auxiliary contacts / instantaneous switching1Number of change-over switches / for auxiliary contacts0Operating current / of the auxiliary contacts6	• at 500 V / rated value	W	4,000
maximumImage: maximumImage: maximumArrangement of electrical connectors / for main current circuitTop and bottomAdjustable response currentTop and bottom• of the non-delayed short-circuit releaseA104 104• of the current-dependent overload releaseA5.5 8Service power / at AC-3 / at 230 V / rated valueW1,500Continuous current / rated valueA8Auxiliary circuit:YesProduct extension / auxiliary switchYesNumber of NC contacts / for auxiliary contacts / instantaneous switching1Number of NO contacts / for auxiliary contacts / instantaneous switching0Number of change-over switches / for auxiliary contactsG0	• at 690 V / rated value	W	5,500
Adjustable response currentAdjustable response current• of the non-delayed short-circuit releaseA104 104• of the current-dependent overload releaseA5.5 8Service power / at AC-3 / at 230 V / rated valueW1,500Continuous current / rated valueA8Auxiliary circuit:YesProduct extension / auxiliary switchYesNumber of NC contacts / for auxiliary contacts / instantaneous switching1Number of NO contacts / for auxiliary contacts / instantaneous switching1Number of change-over switches / for auxiliary contacts0Operating current / of the auxiliary contactsI		1/h	15
• of the non-delayed short-circuit releaseA104 104• of the current-dependent overload releaseA5.5 8Service power / at AC-3 / at 230 V / rated valueW1,500Continuous current / rated valueA8Auxiliary circuit:Product extension / auxiliary switchYesNumber of NC contacts / for auxiliary contacts / instantaneous switching1Number of NO contacts / for auxiliary contacts / instantaneous switching0Number of change-over switches / for auxiliary contacts0	Arrangement of electrical connectors / for main current circuit	-	Top and bottom
• of the current-dependent overload releaseA5.5 8Service power / at AC-3 / at 230 V / rated valueW1,500Continuous current / rated valueA8Auxiliary circuit:YesProduct extension / auxiliary switchYesNumber of NC contacts / for auxiliary contacts / instantaneous switching1Number of NO contacts / for auxiliary contacts / instantaneous switching0Number of change-over switches / for auxiliary contacts0Operating current / of the auxiliary contactsI	Adjustable response current	-	
Service power / at AC-3 / at 230 V / rated valueW1,500Continuous current / rated valueA8Auxiliary circuit:YesProduct extension / auxiliary switchYesNumber of NC contacts / for auxiliary contacts / instantaneous switching1Number of NO contacts / for auxiliary contacts / instantaneous switching1Number of change-over switches / for auxiliary contacts0Operating current / of the auxiliary contactsI	<ul> <li>of the non-delayed short-circuit release</li> </ul>	А	104 104
Continuous current / rated valueA8Auxiliary circuit:YesProduct extension / auxiliary switchYesNumber of NC contacts / for auxiliary contacts / instantaneous switching1Number of NO contacts / for auxiliary contacts / instantaneous switching1Number of NO contacts / for auxiliary contacts / instantaneous switching0Operating current / of the auxiliary contactsI	<ul> <li>of the current-dependent overload release</li> </ul>	А	5.5 8
Auxiliary circuit:       Yes         Product extension / auxiliary switch       Yes         Number of NC contacts / for auxiliary contacts / instantaneous switching       1         Number of NO contacts / for auxiliary contacts / instantaneous switching       1         Number of NO contacts / for auxiliary contacts / instantaneous switching       0         Operating current / of the auxiliary contacts       0	Service power / at AC-3 / at 230 V / rated value	W	1,500
Product extension / auxiliary switch       Yes         Number of NC contacts / for auxiliary contacts / instantaneous switching       1         Number of NO contacts / for auxiliary contacts / instantaneous switching       1         Number of NO contacts / for auxiliary contacts / instantaneous switching       0         Number of change-over switches / for auxiliary contacts       0         Operating current / of the auxiliary contacts       1	Continuous current / rated value	А	8
Number of NC contacts / for auxiliary contacts / instantaneous switching       1         Number of NO contacts / for auxiliary contacts / instantaneous switching       1         Number of NO contacts / for auxiliary contacts / instantaneous switching       0         Number of change-over switches / for auxiliary contacts       0         Operating current / of the auxiliary contacts       0	Auxiliary circuit:		
switching     1       Number of NO contacts / for auxiliary contacts / instantaneous switching     1       Number of change-over switches / for auxiliary contacts     0       Operating current / of the auxiliary contacts     0	Product extension / auxiliary switch		Yes
switching     0       Number of change-over switches / for auxiliary contacts     0       Operating current / of the auxiliary contacts     0	-		1
Operating current / of the auxiliary contacts			1
	Number of change-over switches / for auxiliary contacts		0
• at AC-12 / maximum A 2.5	Operating current / of the auxiliary contacts		
	• at AC-12 / maximum	А	2.5

• at AC-15		
• at 24 V	А	2
• at 230 V	А	0.5
• at DC-13		
• maximum	А	1
• at 24 V	А	1
• at 60 V	А	0.15

0

# Inputs/ Outputs:

Number of digital inputs

Short-circuit:		
Breaking capacity limit short-circuit current (lcu)		
• at 400 V / rated value	А	100,000
• at 500 V / rated value	А	42,000
• at 690 V / rated value	А	6,000
Design of the fuse link / for short-circuit protection of the auxiliary switch / required		Fuse gL/gG: 10 A, miniature circuit breaker C 6 A (short-circuit current Ik < 400 A)
Design of the overcurrent release and short-circuit release		thermomagnetic

Installation/mounting/dimensions:			
Built in orientation		any	
Type of mounting		screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715	
Width	mm	45	
Height	mm	109	
Depth	mm	91	
Distance, to be maintained, to the ranks assembly			
• forwards	mm	0	
backwards	mm	0	
• upwards	mm	50	
downwards	mm	50	
• sidewards	mm	0	
Distance, to be maintained, to earthed part			
• forwards	mm	0	
backwards	mm	0	
• upwards	mm	50	
• sidewards	mm	30	
downwards	mm	50	
Distance, to be maintained, conductive elements			
forwards	mm	0	
backwards	mm	0	

• upwards	mm	50	
downwards	mm	50	
• sidewards	mm	30	
Connections:			
Product function			
<ul> <li>removable terminal for main circuit</li> </ul>		No	
<ul> <li>removable terminal for auxiliary and control circuit</li> </ul>		No	
Design of the electrical connection			
for main current circuit		spring-loaded terminals	
<ul> <li>for auxiliary and control current circuit</li> </ul>		spring-loaded terminals	
Type of the connectable conductor cross-section			
for main contacts			
• solid		2x (0.5 4 mm2)	
• stranded		2x (0.5 4 mm²)	
finely stranded			
with conductor end processing		2 x (0.5 2.5 mm2)	
<ul> <li>without conductor final cutting</li> </ul>		2x (0.5 2.5 mm2)	
<ul> <li>for AWG conductors / for main contacts</li> </ul>		2x (20 12)	
for auxiliary contacts			
• solid		2x (0.5 2.5 mm2)	
finely stranded			
with conductor end processing		2x (0.5 1.5 mm2)	
without conductor final cutting		2 x (0.5 1.5 mm2)	
<ul> <li>for AWG conductors / for auxiliary contacts</li> </ul>		2x (20 14)	
Certificates/approvals:			
Verification of suitability		CE / UL / CSA	
für Staubexplosionsschutz für Zone 21/22		no	
<ul> <li>for gas explosion protection for zone 1/2</li> </ul>		no	

General Product Approval			For use in hazardous locations		
Cac	(SP)	ROSTEST		<u>DEKRA EXAM,</u> <u>DMT</u>	
cqc	CSA				
Test Certificates					
Manufacturer	other				
Shipping Approv	al				
ABS	GL	Llovd's Kegister	PRS	RINA	RMRS
other					
Manufacturer	<u>other</u>	UDE VDE			
UL/CSA ratings					
yielded mechanica	l performance (hp)				
<ul> <li>for single-phase</li> </ul>	e squirrel cage motors	3			
• at 110/120 V	/ rated value		hp	0.333	
• at 230 V / rat	ed value		hp	1	
<ul> <li>for three-phase</li> </ul>	squirrel cage motors				
• at 200/208 V	/ rated value		hp	2	
• at 220/230 V	/ rated value		hp	2	
• at 460/480 V	/ rated value		hp	5	
• at 575/600 V	/ rated value		hp	5	
Operating current	(FLA) / for three-pha	ase squirrel cage motors			
• at 480 V / rated	value		А	7.6	
• at 600 V / rated	value		А	6.1	
Contact rating des UL	ignation / for auxilia	ary contacts / according to		C300 / R300	
Safety:					
B10 value / with high	gh demand rate				
according to SN 31920			50,000		
T1 value / for proof test interval or service life					
<ul> <li>according to IEC</li> </ul>	C 61508		а	10	

according to SN 31920	FIT
Proportion of dangerous failures	
• with low demand rate / according to SN 31920	%
<ul> <li>with high demand rate / according to SN 31920</li> </ul>	%

Failure rate (FIT value) / with low demand rate

50

40 40

#### Protection against electrical shock

finger-safe

## Further information:

Information- and Downloadcenter (Catalogs, Brochures,...) http://www.siemens.com/industrial-controls/catalogs

### Industry Mall (Online ordering system)

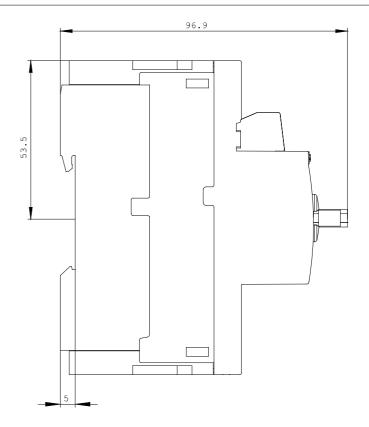
http://www.siemens.com/industrial-controls/mall

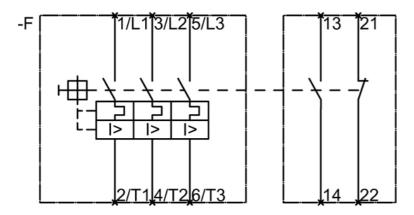
#### **CAx-Online-Generator**

http://www.siemens.com/cax

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3RV2011-1HA25/all

#### Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3RV2011-1HA25





last change: