



# HOIST

Calculation number: Cal\_KU3.2t-6-9.5m  
 Crane work number: 3.2t x6m Hol:9.5m  
 User/Version: RUSAT/ 4.0.37  
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**KU3.2t x 6m Hol:9.5m**

## CRANE DATA

### 1 General

Crane load (SWL) .....	3 200 kg	
Span .....	6 m	
Hoisting height .....	9.5 m (Max9.5 m)	
Crane group .....	FEM A5	
Hoist group .....	FEM M5 (2m)	
Bridge traversing group .....	FEM M5 (2m)	
Trolley traversing group .....	FEM M5 (2m)	
Hoisting speed .....	5/0.8 m/min	2-speed
Trolley traversing speed .....	0-20 m/min	Stepless
Bridge traveling speed .....	0-20 m/min	Stepless
Weight of crane (with hoists) .....	1 420 kg	
Weight of one hoist and trolley .....	280 kg	
Weight of one main girder .....	600 kg	
Weight of Service platform .....	N/A	
Main girder type (Box ) .....	300/410/6/16/6/6-Q235	
Surface preparation type .....	Shot Blasting Sa2.5	
Painting type/depth .....	E/120 µm	
Runway rail type .....		
Max./Min. static wheel load .....	21.71/2.79 kN	
Buffer diameter/center Height .....	63 mm/125 mm	

### 2 Crane control

Control method.....Pendant

### 3 Electrical

Main/Control voltage.....380 V/50 Hz/48 AC V  
 Nominal power of crane.....4.95 kW  
 Max./Nominal current of crane\*).....46.5 A/12.8 A

### 4 Hoisting motor

Motor type/code/Number.....SD02/AD168L223N/1set  
 Duty group.....FEM M5 (2m)  
 Nominal power.....3.7/0.5 kW  
 Duty factor.....**60 % ED**

### 5 Trolley traversing motor

Motor type/Number.....AF115L411N/1set  
 Duty group.....FEM M5 (2m)  
 Nominal power.....0.65 kW  
 Duty factor.....**40 % ED**

### 6 Bridge traveling motor

Motor type/Number.....AF115M411N/2set  
 Duty group.....FEM M5 (2m)  
 Nominal power.....0.3 kW  
 Duty factor.....**40 % ED**